WALLSLIDE OWNER'S MANUAL

Dodge Promaster, 136" Wheelbase, High Roof

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Introduction

Thank you for purchasing this model of the WallSlide product line of WallSlide. 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 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 WallSlide or your nearest 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:

- WSS420 (Dodge Promaster, 136" Wheelbase, High Roof)

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 WallSlide for service aids and accessories.

HOW TO OBTAIN SERVICE

When your WallSlide system requires service or repairs, simply contact an authorized WallSlide dealer or contact WallSlide directly for assistance. When contacting a dealer or WallSlide, always supply the complete model number of your unit as given.

Model#_____

Authorized dealer location: To locate the nearest authorized dealer, please call this number: 435-538-4720

You may also contact WallSlide directly at this number: 435-538-4720

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. WallSlide 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 WallSlide 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, WallSlide 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 HAZZARDS

- 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 typically do not pose an life-threatening 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. WallSlide recommends disconnecting source voltage or battery cables before making any repairs or performing service maintenance.
- WallSlide 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. WallSlide 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. OvertorqueSensing
3. Emergency Stop Buttons
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 optional remote or push buttons)
6. Ladder racks: Folding and Static

1.4 Your WallSlide System

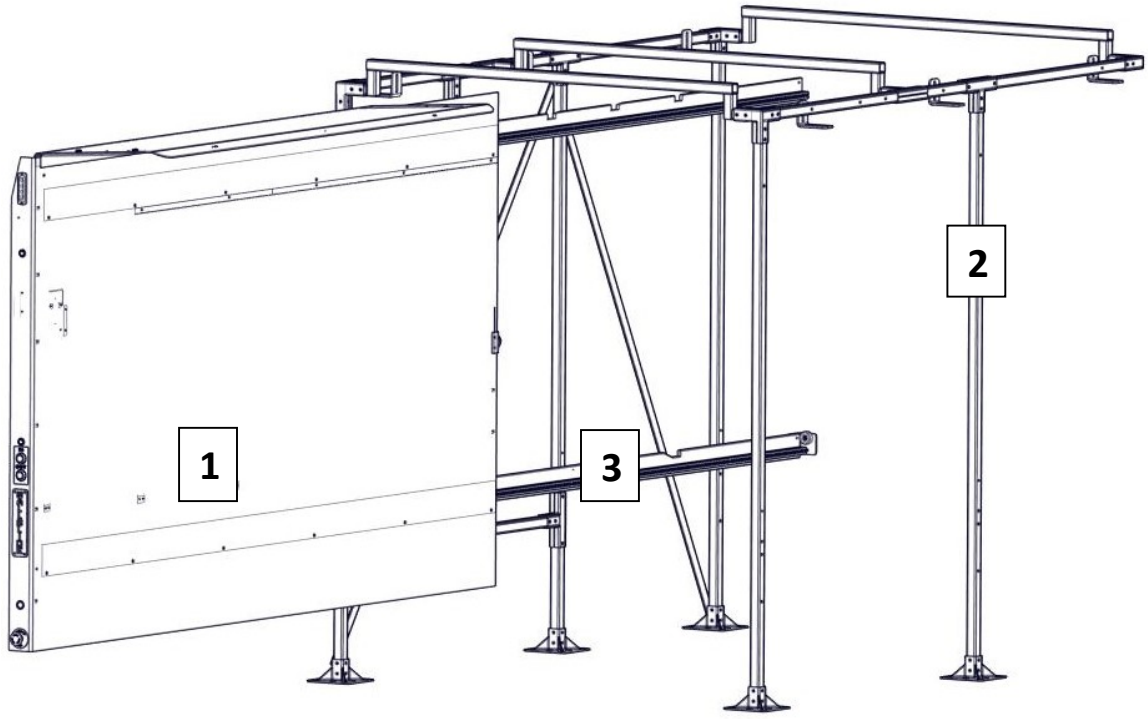


Figure 1- WallSlide System

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

1. Wall Panel
2. Framework
3. Rolling Mechanism

1.4.1 WallSlide Wall Panel Assembly

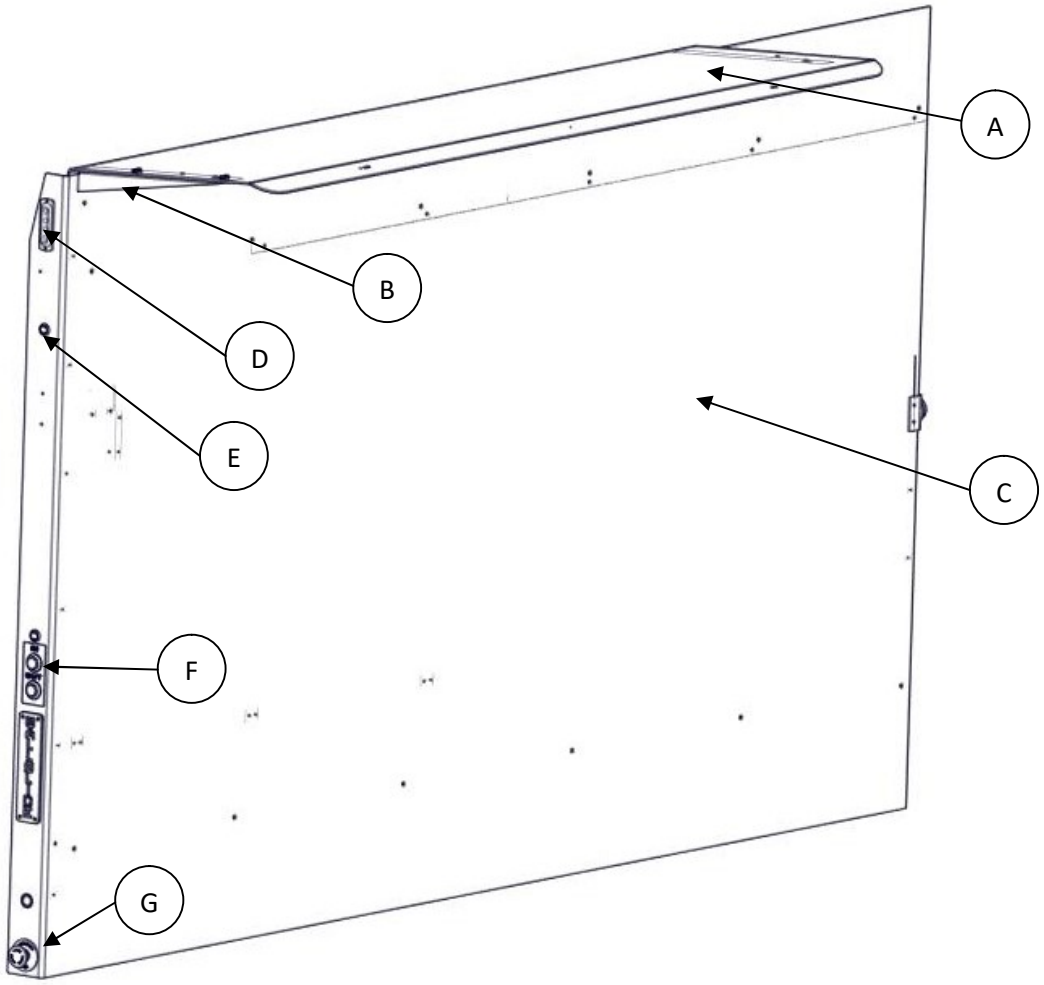


Figure 2- Wall Panel Components (Front View)

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. Push Buttons (Optional)
G. Emergency Stop Button (Included w/Motor Option)

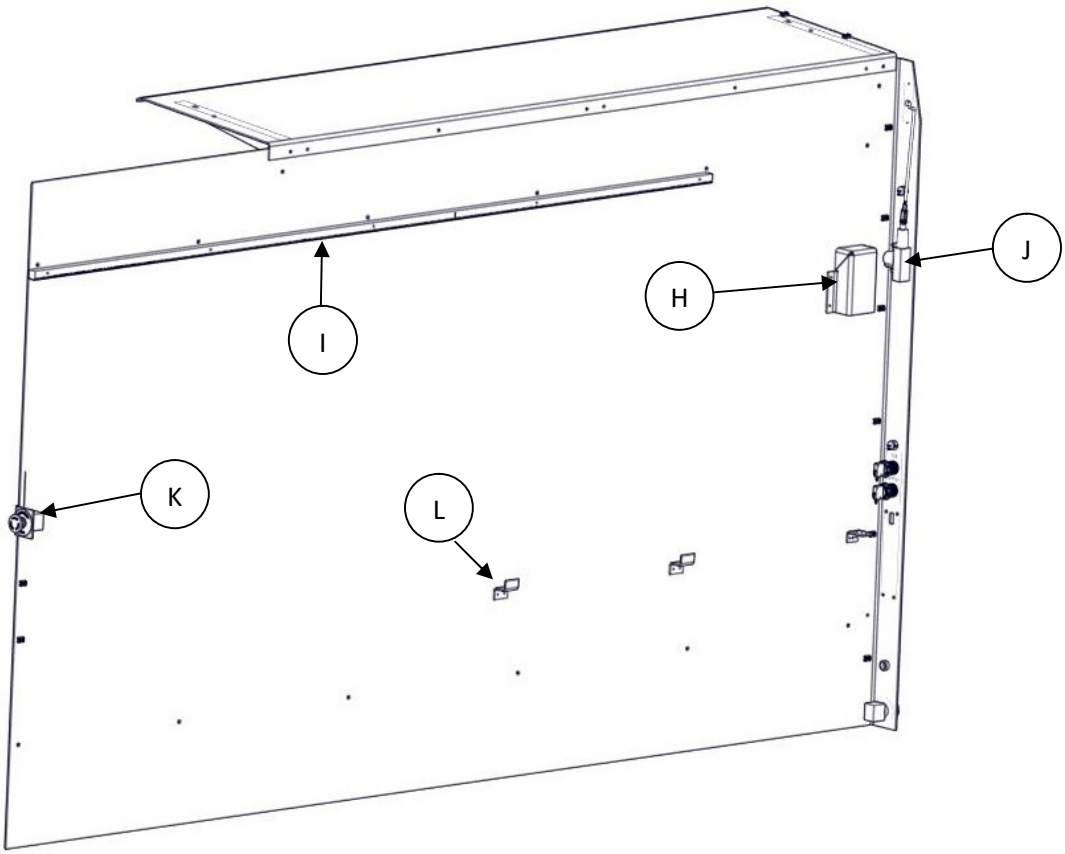


Figure 3- Wall Panel Components (Rear View)

H. Capacitor Cover (Included w/Motorized System)
I. Gear Rack (Included w/Motorized System)
J. Latch Actuator (Included w/Motorized System)
K. E-Stop Button (Included w/Motorized System)
L. Snake Track Support Brackets (Included w/Electrical and/or Motorized Systems)

1.4.2 WallSlide Framework

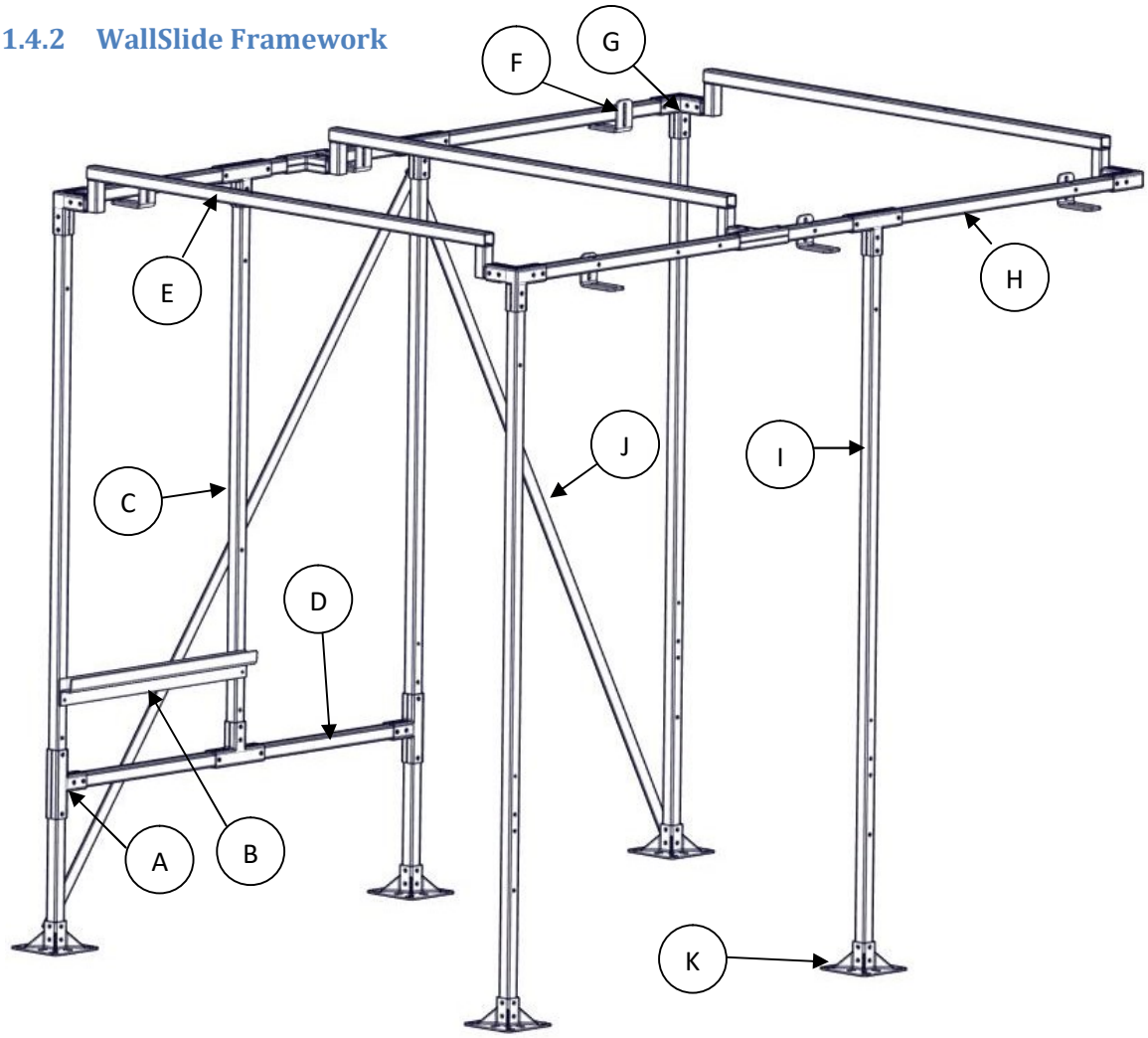


Figure 4- Framework Components

A. Tee Clamshell
B. Snake Track Support (Included w/Electrical and/or Motorized Systems)
C. Mid Upright Frame Tube
D. Lower Horizontal Frame Tube
E. Cross Support Frame Tube
F. L-Bracket
G. Corner Clamshell
H. Upper Horizontal Frame Tube
I. Main Upright Frame Tube
J. Stabilizer Strap
K. Basefeet

1.4.3 WallSlide Rolling Mechanism

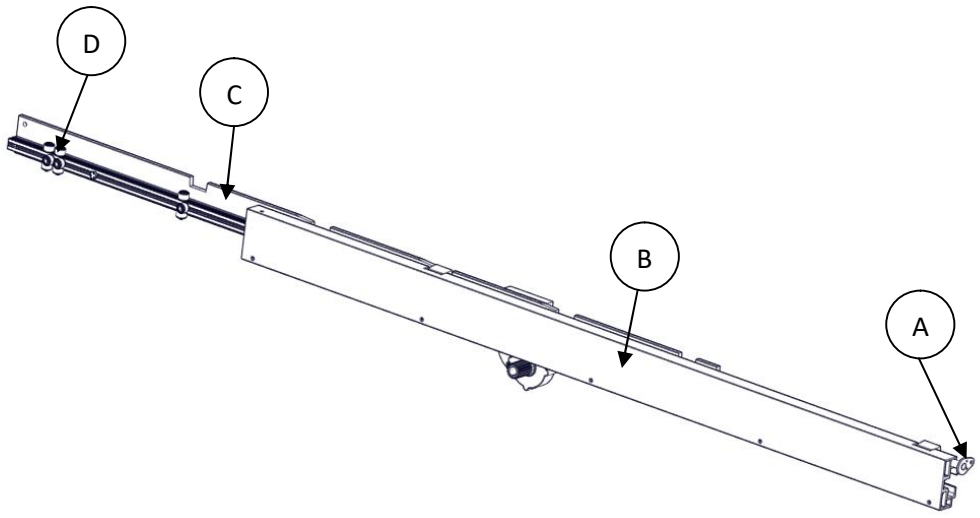


Figure 5-Rolling Mechanism Components (Front View)

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

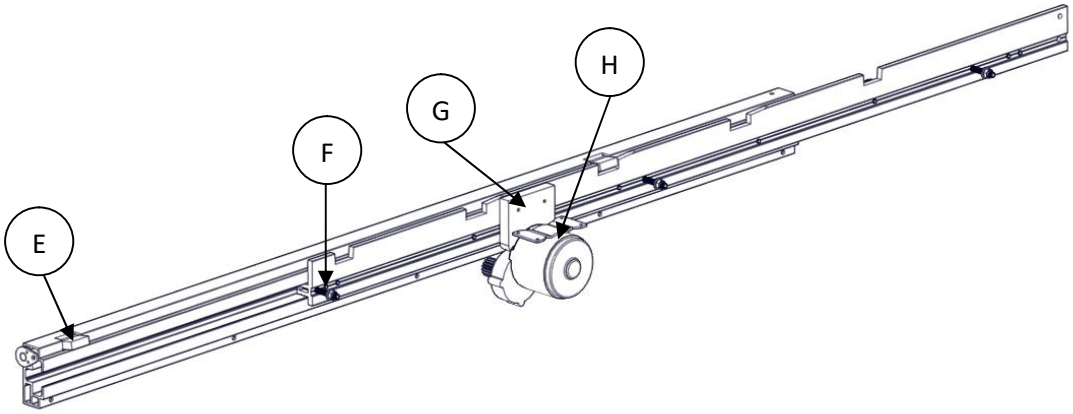


Figure 6 -Rolling Mechanism (Rear View)

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

Dodge Promaster	SKU# WSS420	SKU# WSS421	SKU# WSS422
Frame Size (L x W x H)	88.75” x 64.75” x 74.5”		
Wall Panel Size (L x W)		102.375” x 59”	62.375” x 59”
Rail Length		100”	60”
Wall Extension		71.625”	43.625”
Approximate Weight	150 lbs.	190 lbs.	130 lbs.

1.5.2 Bolt Torque Specifications

Bolt Size and Type	Recommended Torque
5/16”-18 Hex Bolt	17-19 ft/lbs
5/16”-18 Button Head Cap Screw	15-17 ft/lbs
¼”-20 Hex Bolt	8-10 ft/lbs
¼”-20 Flat Head Cap Screw	10-12 ft/lbs
¼”-20 Button Head Cap Screw	8-10 ft/lbs
¼”-20 Low Head Cap Screw	5-6 ft/lbs
M6 X 1.0 Socket Head Cap Screw	13-15 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)	EP Synthetic Grease	Every three (3) months
Connecting Rod (D)	EP Synthetic Grease	Yearly
Thumb Latch (E)	Dry Film Lubricant	Every six (6) months
Sliding Rail Channel (F)	Mobil SHC Synthetic Grease	Yearly
Bearings (G)	Mobil SHC Synthetic Grease	Yearly
Lower Rail Edge (H)	Mobil SHC Synthetic Grease	Every three (3) months

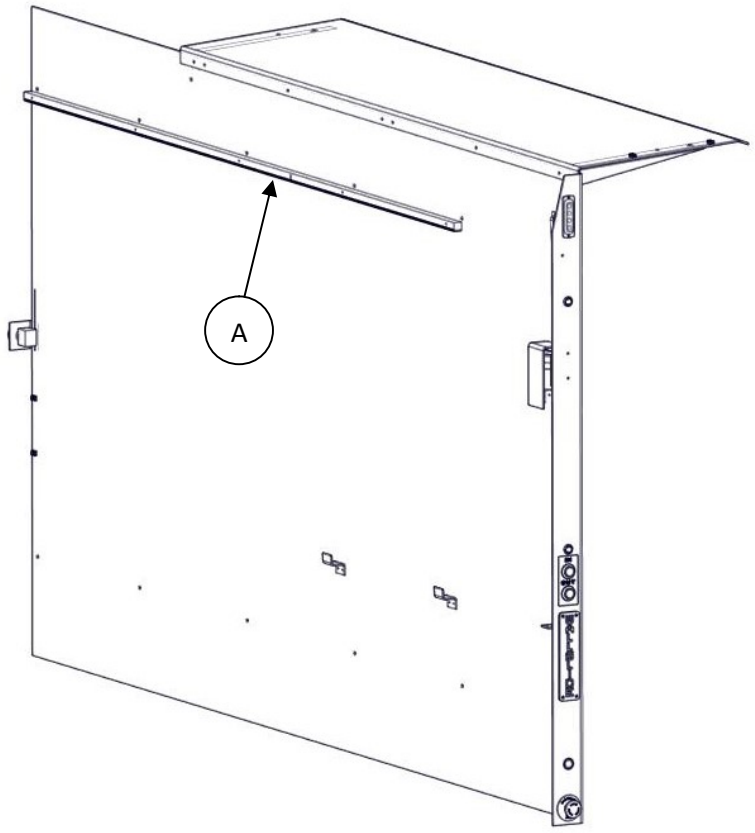


Figure 7- Gear Rack Lubrication

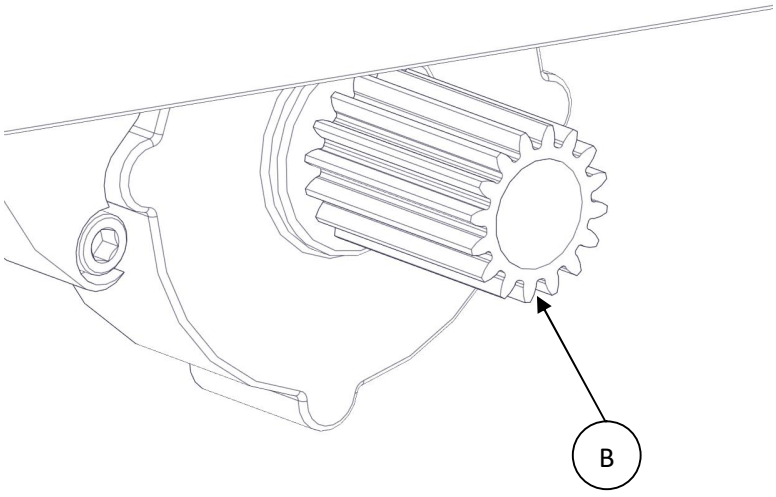


Figure 8- Pinion Gear Lubrication

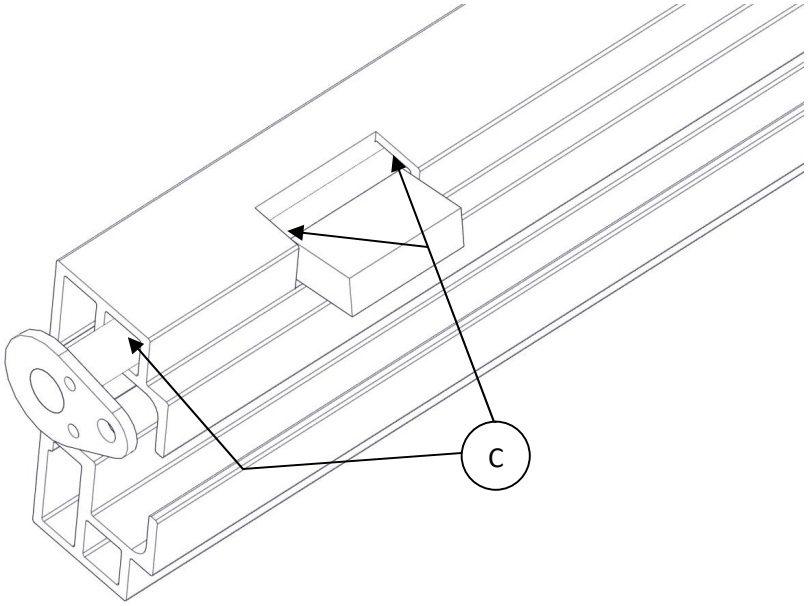


Figure 9- Latch Rod/Paddle Lubrication

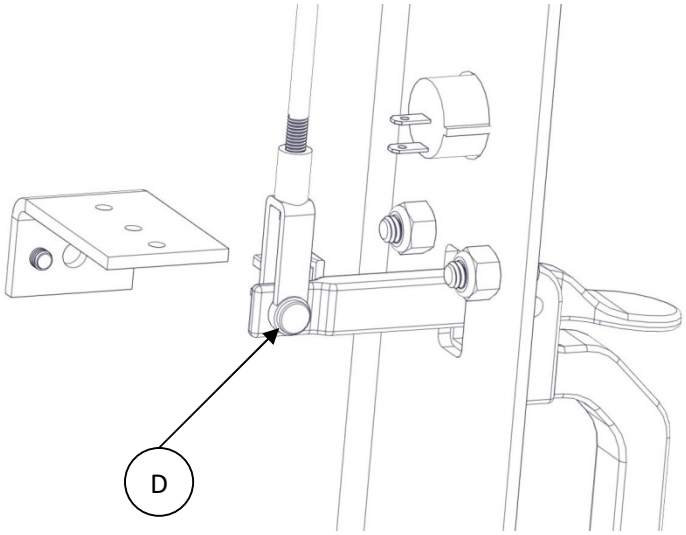


Figure 10- Connecting Rod Lubrication

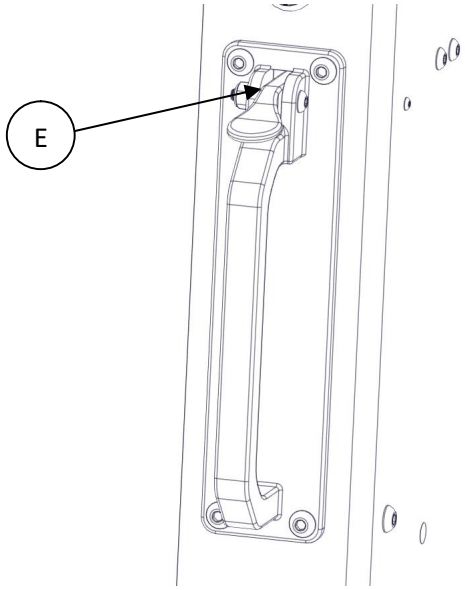


Figure 11- Thumb Latch Lubrication

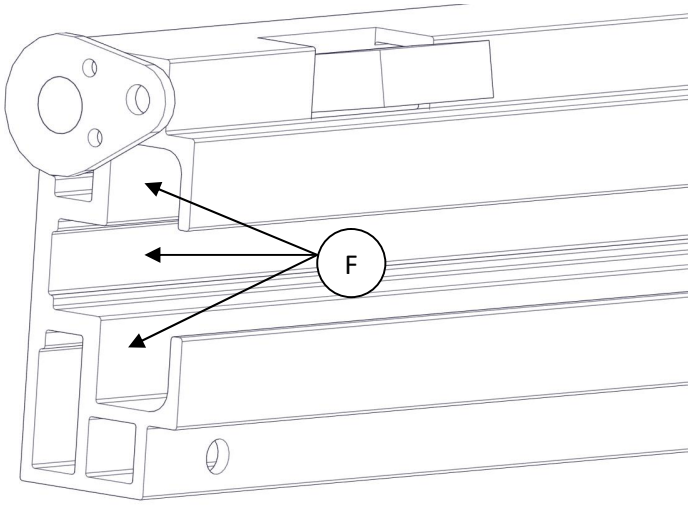


Figure 12- Sliding Rail Lubrication

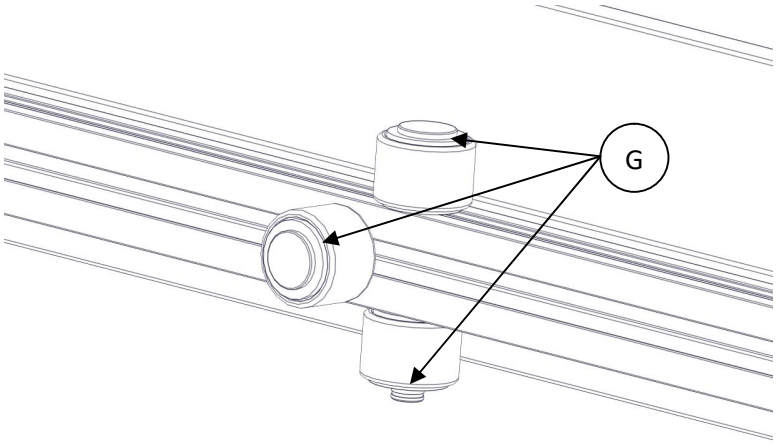


Figure 13- Bearings Lubrication

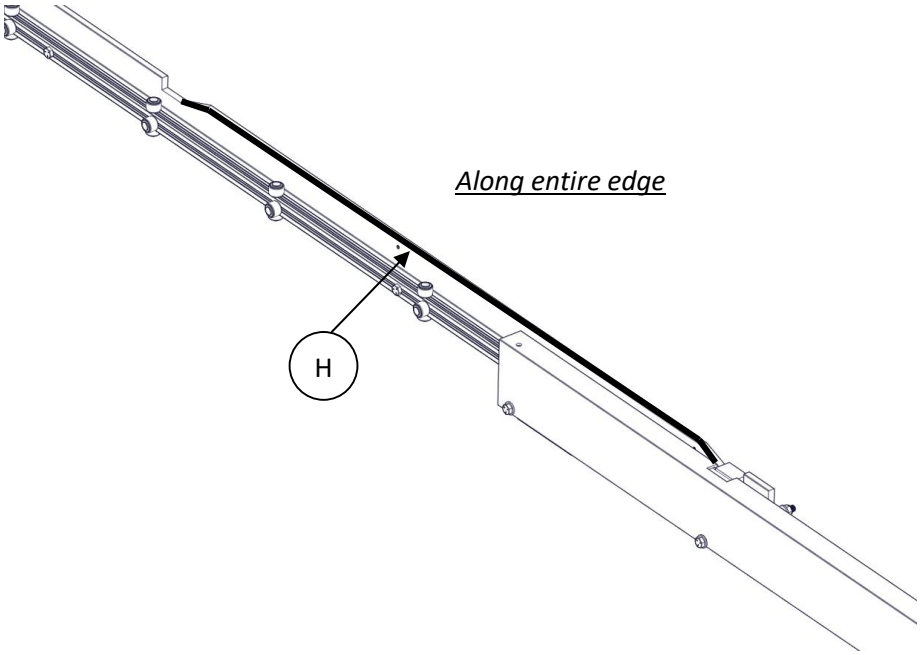


Figure 14- Lower Rail Lubrication

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. WallSlide 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 15).

!!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.

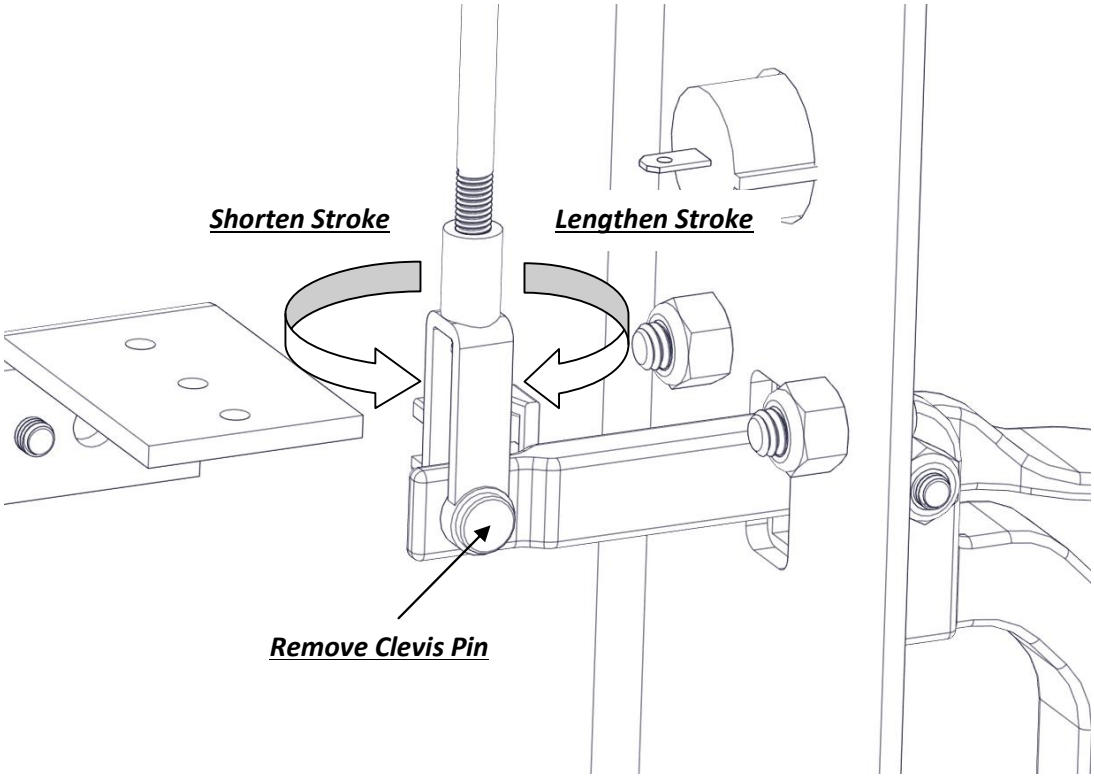


Figure 15- Clevis Rod Adjustment

Adjust the Clevis Rod End (Figure 15), so when the Thumb Latch is depressed (Figure 17), the Latch Paddle is approximately 1/8” (Approx. 45°) above the Bearing Rail (Figure 16). Operate the Thumb Latch and slide the unit in and out several times to ensure accurate adjustment.

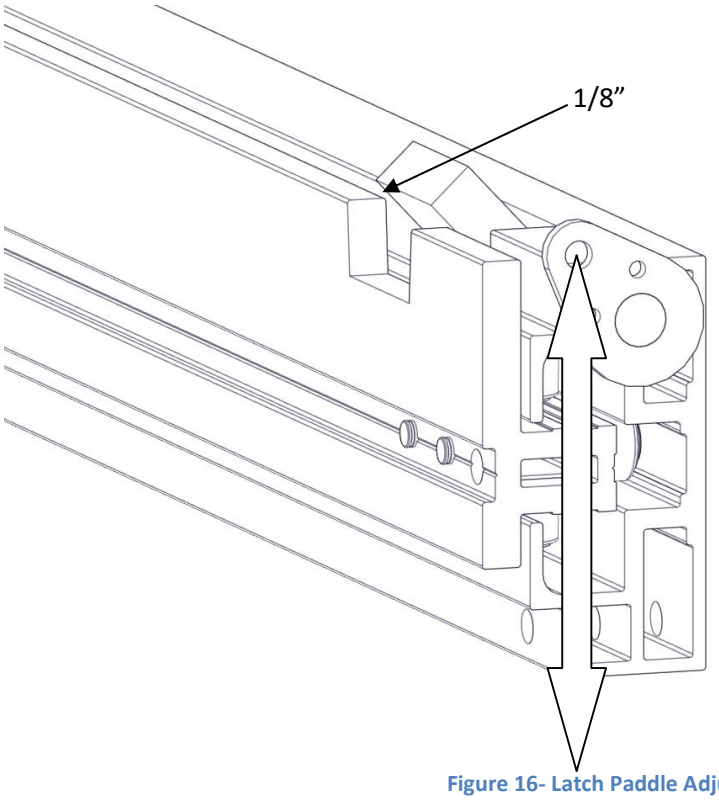


Figure 16- Latch Paddle Adjustment

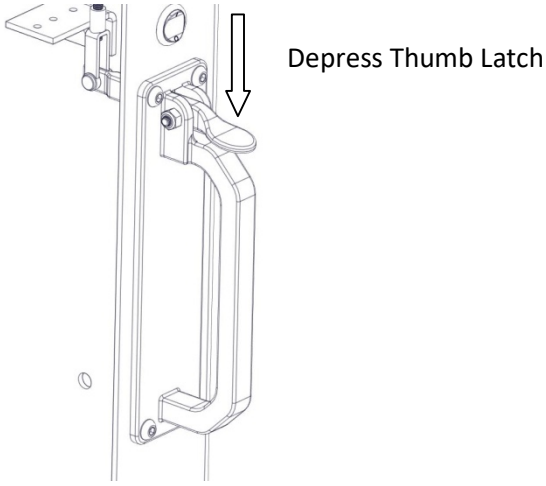


Figure 17- Thumb Latch Operation

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 20).

!!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.

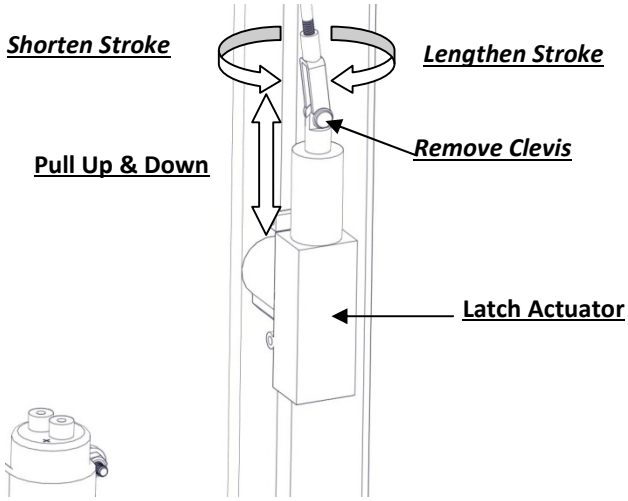


Figure 18- Actuator Clevis Rod Adjustment

Adjust the Clevis Rod End, so when you manually pull the end of Latch Actuator up (Figure 18), 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 19). Activate the remote and drive the wall in and out several times to ensure accurate adjustment.

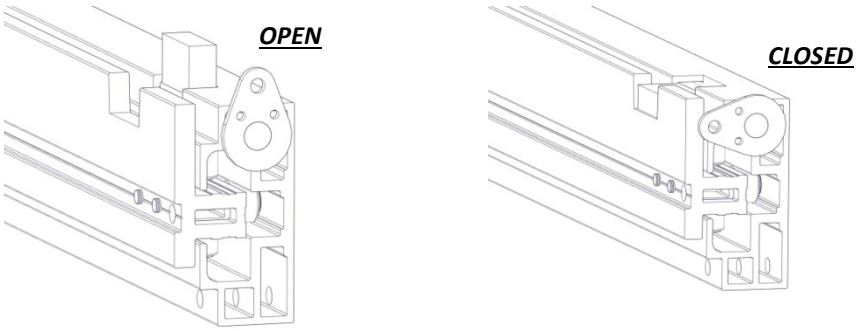


Figure 19- Latch Paddle Position

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 20).

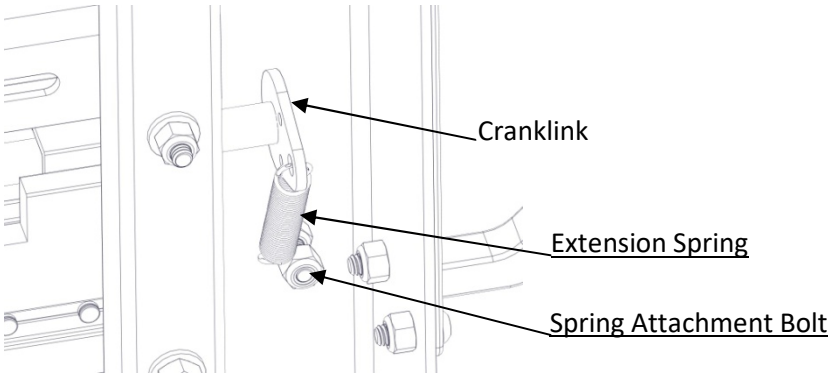


Figure 20- Safety Latch Spring Attachment

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 20). Leave a gap between locknuts to allow the Extension Spring to freely move (Figure 23).

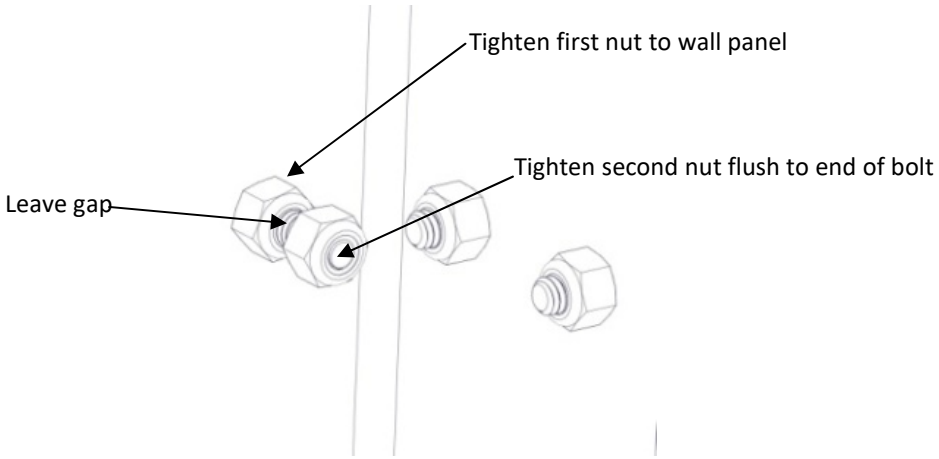


Figure 21- Double Locknut Attachment

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 14).

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. WallSlide recommends periodic checks and adjustment. Refer to maintenance schedule for recommended frequency and contact you 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 to prevent unwanted movement. 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 22). 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 23). 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 24), 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 24). 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 25).

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.

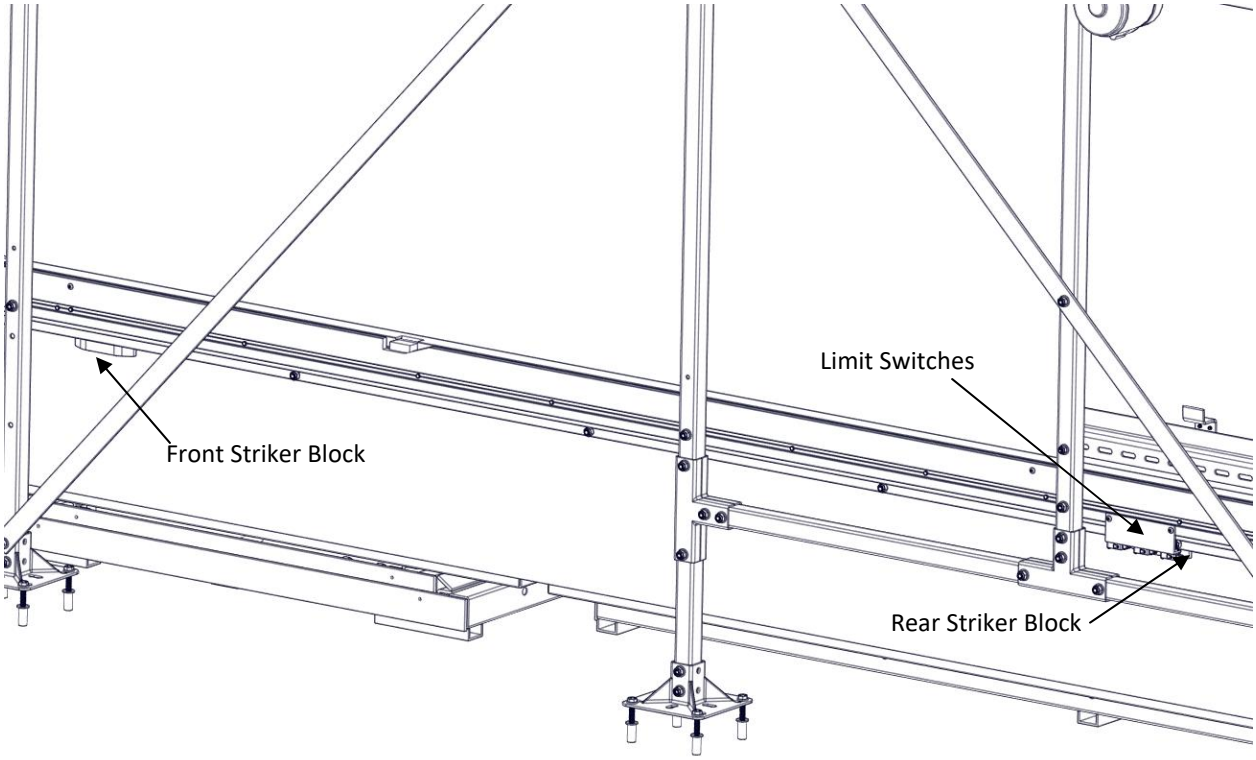


Figure 22- Limit Switch Striker Block Locations

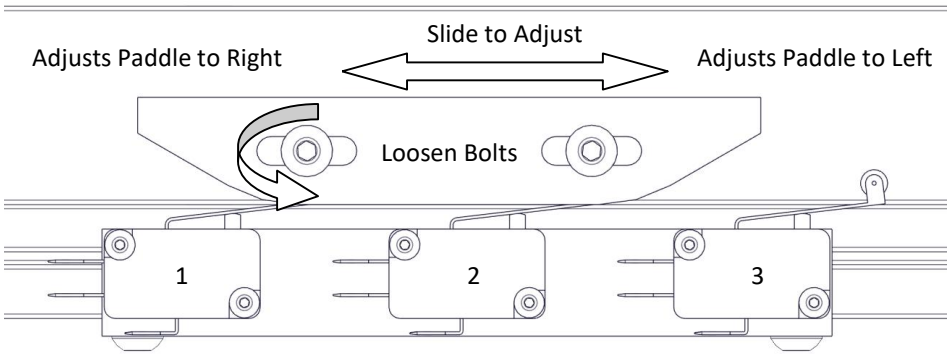


Figure 23- Rear Striker Block Adjustment

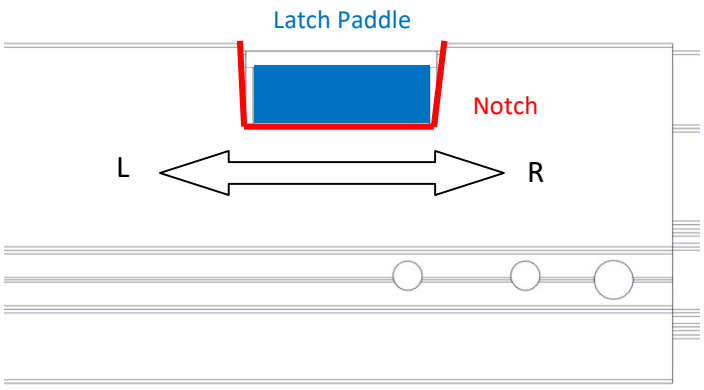
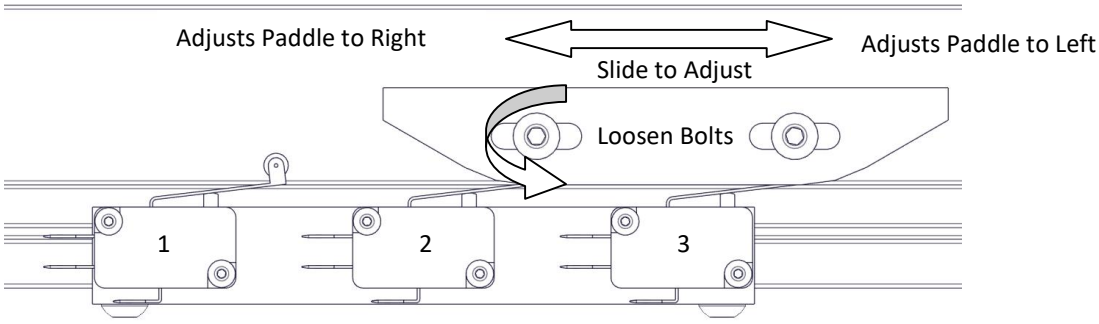


Figure 24- Proper Latch Paddle Alignment



BOTTOM VIEW

Figure 25- Front Striker Block Adjustment

Section 3- Exploded Views and Parts Lists

3.1 Framework Exploded View

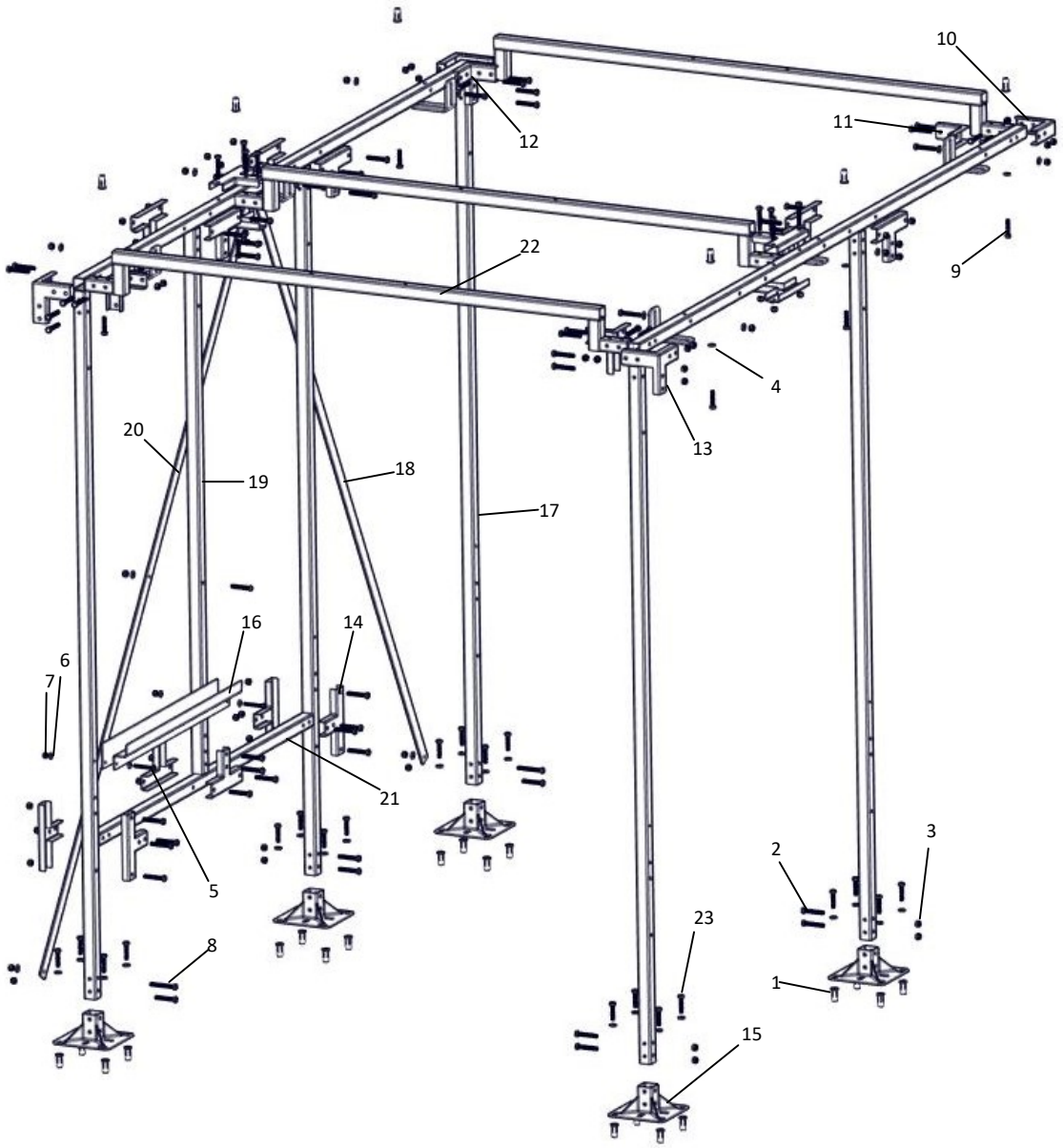


Figure 26- Frame Exploded View

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180239	26	5/16”-18 Plus Nut	13	180152	3	3-Way Outside Corner Clamshell
2	130104	70	5/16”-18 X 2” Hex Bolt	14	180154	16	Tee Clamshell
3	080103	80	5/16”-18 Locknut	15	180156	5	6 X 6 Base Plate
4	120107	40	5/16” Flat Washer	16	180653	1	Snake Track Support
5	180406	4	¼”-20 X 2” Hex Bolt	17	180677	5	Main Upright
6	180255	4	¼” Flat Washer	18	180681	1	Rear Stabilizer
7	080101	4	¼”-20 Locknut	19	180679	1	Mid Upright
8	130105	3	5/16”-18 X 2.5” Hex Bolt	20	180680	1	Front Stabilizer
9	130101	6	5/16”-18 X 1” Hex Bolt	21	180454	1	Lower Horizontal
10	180150	1	2-Way Outside Corner Clamshell	22	180678	3	Cross Support
11	180151	1	2-Way Inside Corner Clamshell	23	130102	20	5/16”-18 X 1.5” Hex Bolt
12	180153	3	3-Way Inside Corner Clamshell				

*Included with optional Electrical Kit

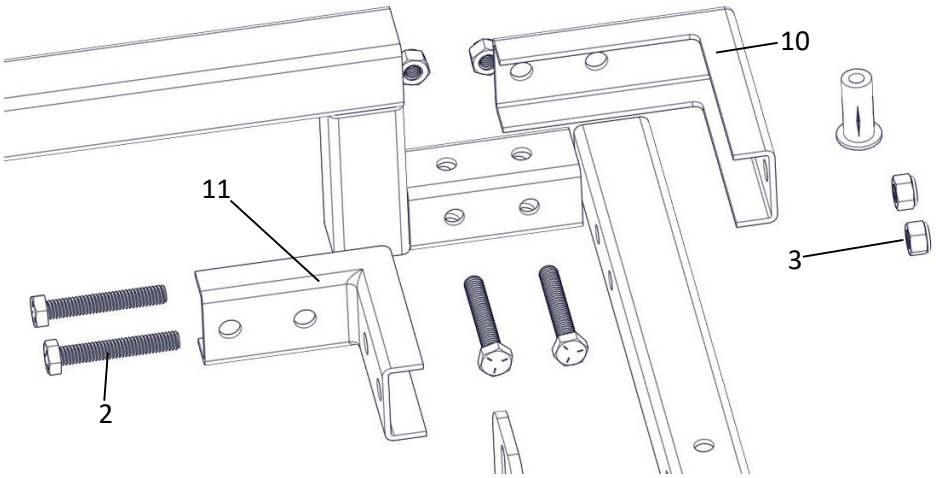


Figure 27- 2-Way Corner Assembly

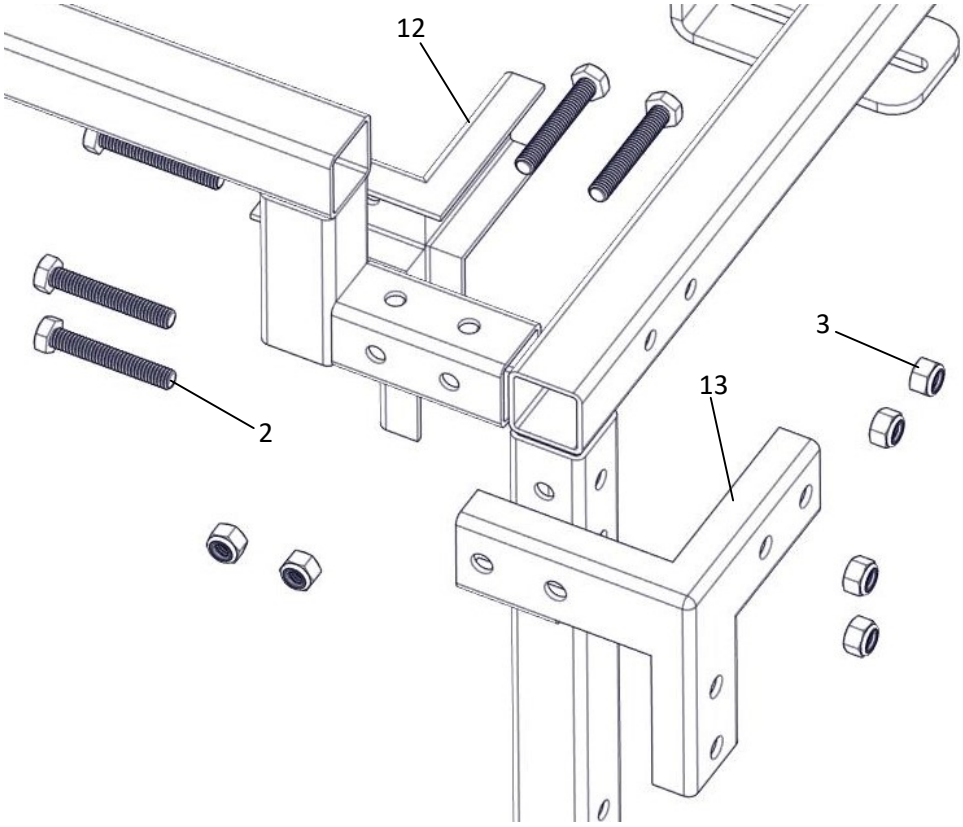


Figure 28- 3-Way Corner Assembly

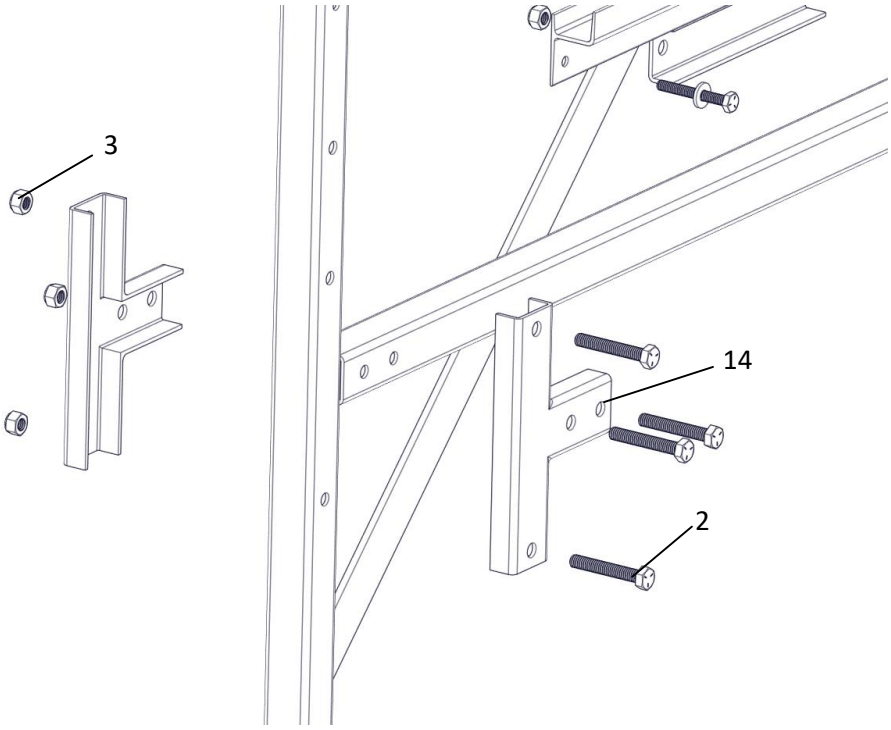


Figure 29- Tee Clamshell Assembly

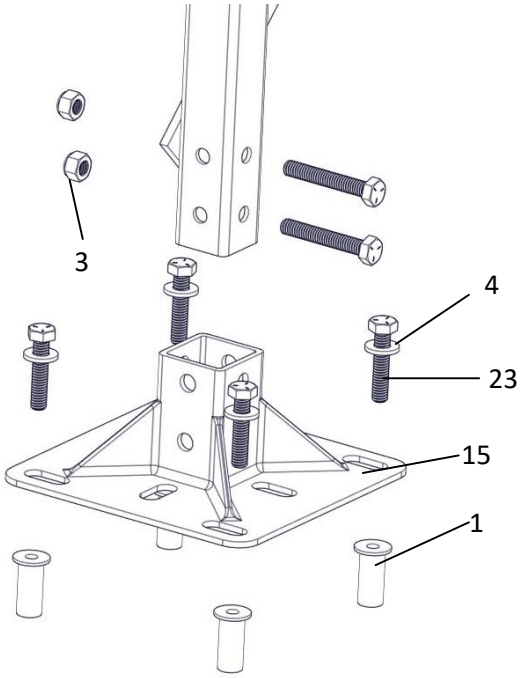


Figure 30- Basefoot Assembly

3.2 Rolling Mechanism Exploded View

3.2.1 Upper Bearing Rail Assembly

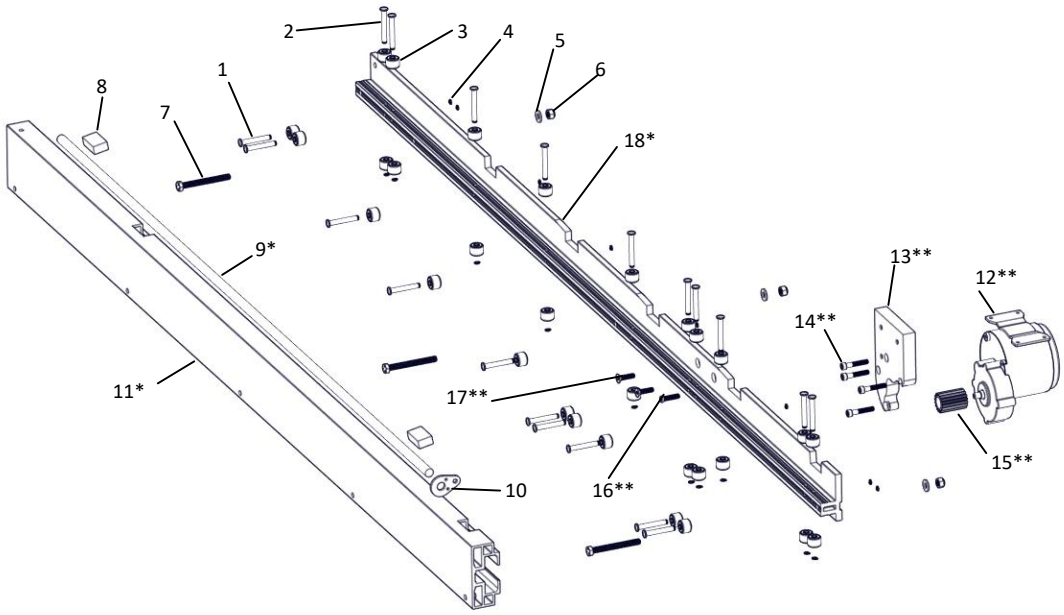


Figure 31- Right Upper Bearing Rail Assembly

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180191	11***	Main Bearing Pin	10	180211	1	Cranklink
2	180192	10***	Thrust Bearing Pin	11	180461*	1	Right Sliding Rail
3	080100	31***	CYR Bearing, ¾"	12	180384**	1	Motor
4	080114	21***	¼" 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	¼"-20 X 1" Low Head Cap Screw
8	180313	2	Latch Paddle	17	180236**	2	¼"-20 X 1" Flat Head Cap Screw
9	180462*	1	Right Latch Rod	18	180459*	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
180458	Left Latch Rod
180457	Left Sliding Rail
180455	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

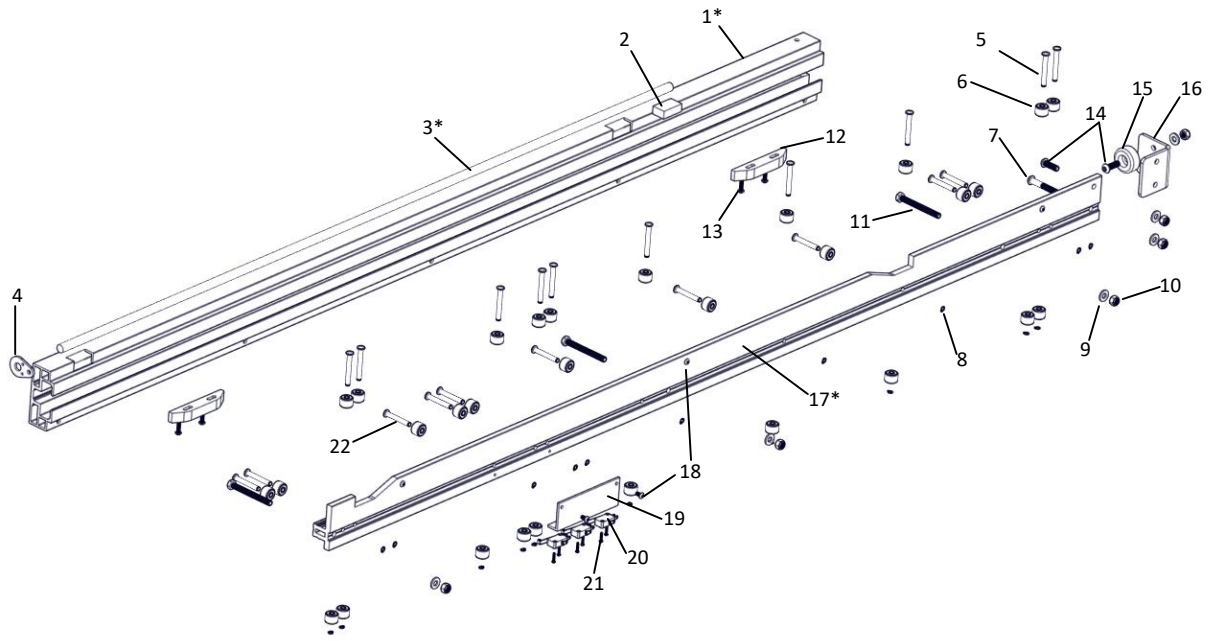


Figure 32- Right Lower Bearing Rail Assembly

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180461*	1	Right Sliding Rail	12	180219**	2	Limit Switch Striker Block
2	180313	1	Latch Paddle	13	180403	4	10-32 X ¾" Button Head Cap Screw
3	180462*	1	Right Latch Rod	14	180259	2	5/16"-18 X 1" Button Head Cap Screw
4	180211	1	Cranklink	15	180268	1	Rubber Bumper
5	180192	10***	Thrust Bearing Pin	16	180215	1	Stop Bracket
6	080100	31***	CYR Bearing, ¾"	17	180460*	1	Right Lower Bearing Rail
7	130104	1	5/16"-18 X 2" Hex Bolt	18	180402	5	10-32 X 3/8" Button Head Cap Screw
8	080114	21***	¼" External Retaining Ring	19	180218**	1	Limit Switch Mount
9	120107	6***	5/16" Flat Washer	20	180559	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	11***	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
180458	Left Latch Rod
180457	Left Sliding Rail
180456	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

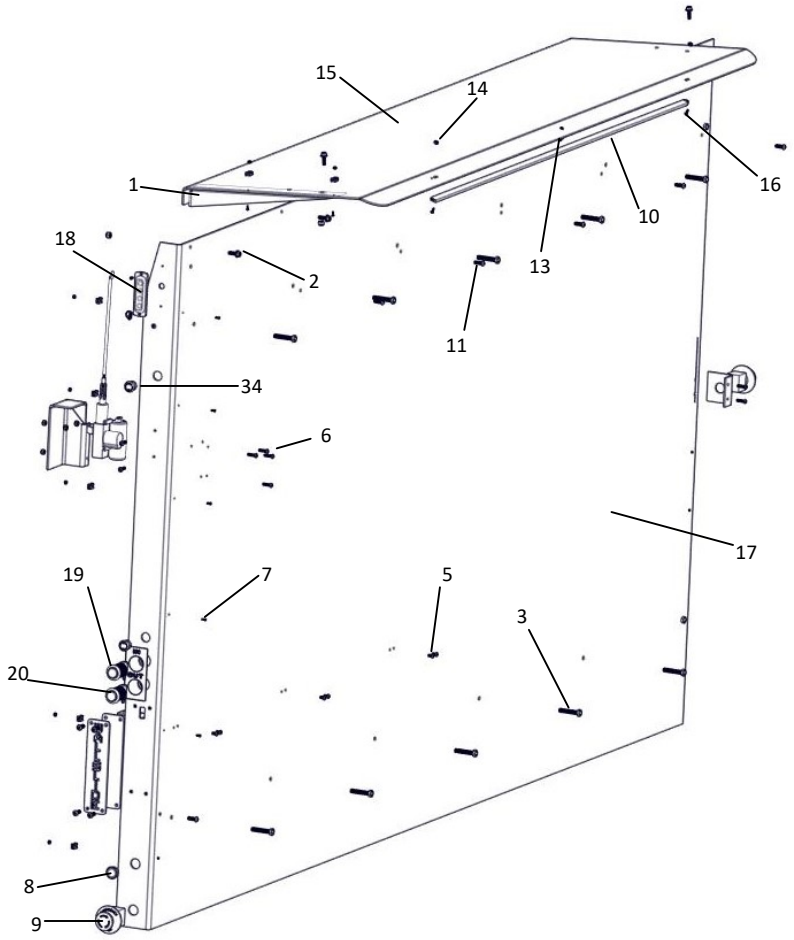


Figure 33- Wall Assembly, Front Side

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180937	1	Low Profile Left Canopy Bracket	20	N/A	1	Yellow Push Button Switch
2	180256	7	¼”-20 X ¾” Flanged Bolt	21	180613**	1	Actuator
3	180491	12	5/16”-18 X 1-3/4” Hex Bolt	22	180518**	1	Actuator Connecting Rod
4	180939	1	Left Wall Capacitor Cover	23	180611**	1	Capacitor Strap
5	180402	6	10-32 X 3/8” Button Head Cap Screw	24	180428**	1	Capacitor
6	180403	9	10-32 X ¾” Button Head Cap Screw	25	180216**	1	Snake Track End Support Bracket
7	180449	12	4-40 X 5/16” Button Head Cap Screw	26	180314**	2	Snake Track Single Support
8	180861	1	7/8” Hole Plug	27	180175*	1	Left Wall Gear Rack
9	180614**	2	E-Stop Button	28	080103	12	5/16”-18 Locknut
10	180393**	1	LED Light Strip 48 in	29	180616**	10	Zip Tie Anchor
11	180235	10	¼”-20 X ¾” Button Head Cap Screw	30	080101	13	¼”-20 Locknut
12	180554**	12	4-40 Locknut	31	180610	1	Clevis Pin
13	180638**	1	LED Light Clip	32	180229	8	10-32 Locknut
14	180636**	2	6-32 Locknut	33	180247	2	Rod Clevis
15	180470*	1	Left Wall Canopy	34	180612**	2	Light Switch
16	180637**	2	6-32 X 3/8” Button Head Cap Screw	35	180504	1	Logo Backplate
17	180683*	1	Left Wall Panel	36	180532	1	WallSlide Logo Plate
18	180768	1	LED Strobe	37	180666	1	E-Stop Bracket
19	N/A	1	Blue Push Button Switch	38	180938	1	Low Profile Right Canopy Bracket

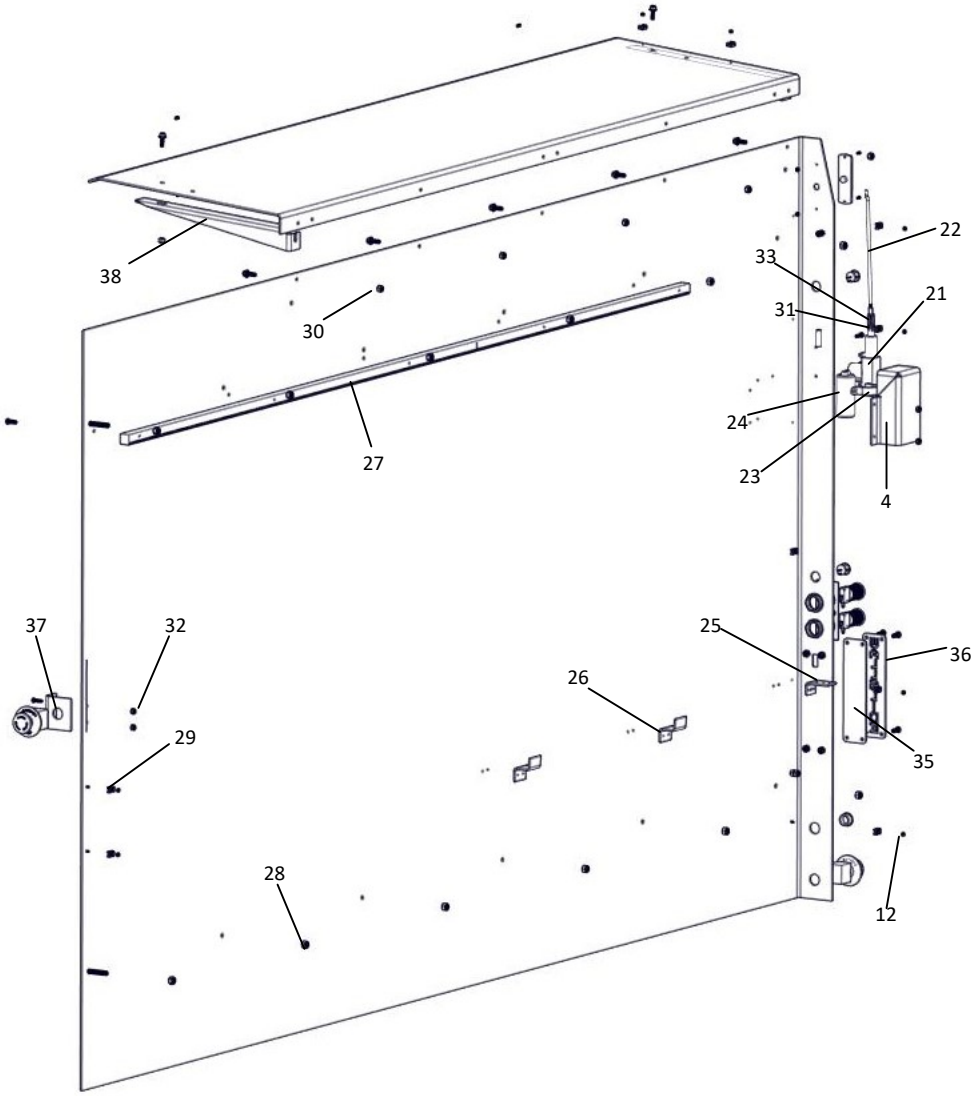
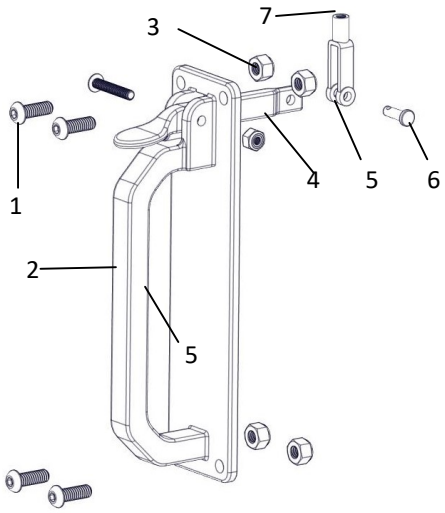


Figure 34- Wall Assembly, Rear Side

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

Part No.	Description
180174	Right Wall Gear Rack
180472	Right Wall Panel
180473	Right Wall Canopy

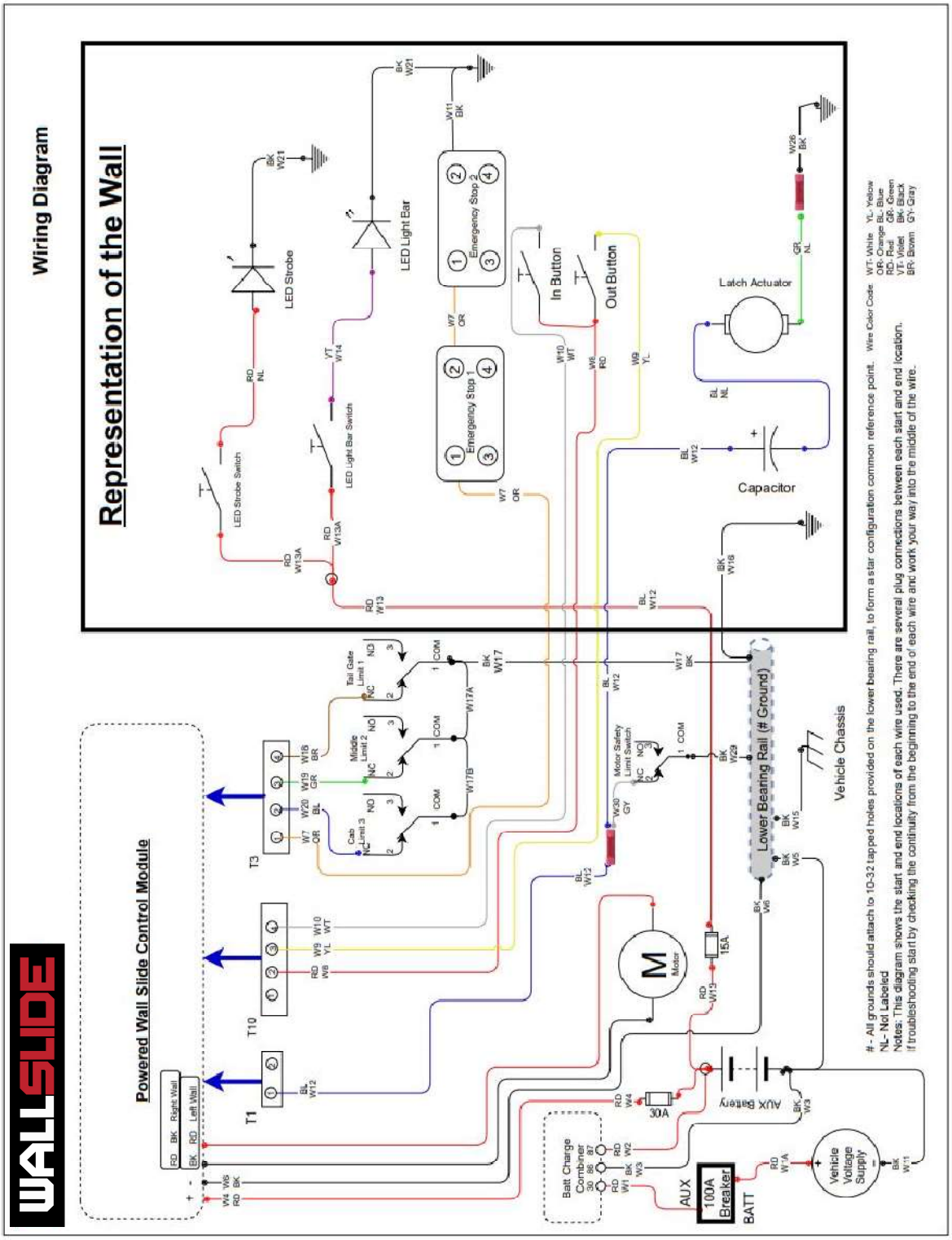
**Included with optional Motorized Wall Kit and/or optional Electrical Kit



Item	Part No.	Qty.	Description
1	180235	4	¼”-20 X ¾” Button Head Cap Screw
2	180317	1	Latch Handle
3	080101	4	¼”-20 Locknut
4	180318	1	Thumb Latch
5	180247	1	Rod Clevis
6	180610	1	Clevis Pin
7	180535	1	Handle Connecting Rod

Figure 35- Pull Handle Assembly

Section 4- Electrical Diagrams



Section 5- Maintenance

Regular maintenance will improve performance and extend the life of the WallSlide system. WallSlide 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. WallSlide 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. Manually trip the 100 amp breaker from vehicle's battery to auxiliary battery (if equipped).
4. Disconnect the negative (-) terminal on the auxiliary battery (if equipped).
5. Disconnect the positive (+) terminal on the auxiliary battery (if equipped).
6. Disconnect the red wire lead from the motor to the controller (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. WallSlide recommends lubrication services are performed by an authorized WallSlide installer. Contact your nearest WallSlide dealer if lubrication service on the system is necessary.

!!CAUTION!!

Use only the lubrication types recommended by WallSlide. 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 negative (-) lead on the Vehicle Battery and manually trip the 100 amp breaker.
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 reset the 100 amp breaker.

!!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. For more information on battery recycling, visit the Battery Council International website at: ***http://batterycouncil.org***.

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: WallSlide 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
Sliding Rail Channel	X	*	X	Y
Bearings	X	*	X	Y
Lower Bearing Rail Edge	X	*	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	1. Connection bolt too tight 2. Insufficient lubrication. 3. Vehicle not level.	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	1. Latch Paddle not adjusted correctly. 2. Latch Rod not lubricated. 3. Vehicle not level.	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	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.	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.	1. Blown Fuse 2. Discharged or low battery. 3. Main breaker is OFF. 4. Loose, corroded, or defective battery connections. 5. Remote batteries discharged. 6. Poor remote connection. 7. Latches not disengaging. 8. Loose, corroded, or defective motor connections. 9. Loose, corroded, or defective controller connections. 10. Defective limit switches. 11. Defective capacitor. 12. Loose or broken Motor Pinion Gear. 13. Excessive weight placed on wall system. 14. Object detection is defective. 15. Charge combiner is defective.	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. Tighten, clean, or replace as necessary.* 5. Replace as necessary.* 6. Try activating remote closer to wall system. (Contact an authorized WallSlide installer if problem persists.) 7. Adjust Latch Paddle as per Section 2.1.* 8. See #4.* 9. See #4.* 10. Replace as necessary.* 11. See #10.* 12. * 13. Adjust to proper weight capacity. 14. * 15. *
Excessive noise and vibration	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.	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 perform a complete system reset, pull 30 amp fuse, wait for 30 seconds, then re-insert the fuse. To clear an active alarm, simply depress the E-Stop Button and then twist and pull E-Stop Button to reset. If alarm reoccurs, contact and authorized WallSlide installer.

Buzzer Count	Active Alarm	Problem	Things to Check	Solution
1 (Fast)	Emergency Stop has been pressed	1. Emergency Stop system has been activated	1. Inspect E-Stop Button 2. Inspect E-Stop circuit wiring for damage	1. Disengage button 2. Repair wiring
1 (Slow)	Overheat- H-Bridge disabled.	2. Insufficient air flow. 3. WallSlide operated on incline surface. 4. Excessive weight.	3. Object(s) obstructing the Motor Controller. 4. Inspect vehicle level. 5. Verify weight capacity.	3. Remove obstruction. 4. Relocate vehicle to level ground. 5. Remove excessive weight.
2	Over Current	1. Too much weight on wall. 2. Seized bearing. 3. Latch Paddle did not disengage.	1. Verify weight capacity. 2. Inspect bearing operation. 3. Inspect Latch Actuator. Verify voltage at capacitor. Verify battery voltage.	1. Remove excess weight. 2. Replace broken/damaged bearing. 3. Replace Latch Actuator.Replace capacitor.Recharge/replace battery.
4	Limit Switch fault during motion	1. Limit Switch unplugged. 2. Limit Switch actuator arm broken or bent. 3. Limit Switch failure.	1. Verify connections. 2. Check for loose or broken actuator arm. 3. Verify continuity across terminals.	1. Reconnect Limit Switch terminal(s). 2. Replace Limit Switch(es). 3. Check with multimeter.
5	Limit Switch failed to enable on startup	1. Limit Switch unplugged. 2. Limit Switch actuator arm broken or bent. 3. Limit Switch failure.	1. Verify connections. 2. Check for loose or broken actuator arm. 3. Verify continuity across terminals.	1. Reconnect Limit Switch terminal(s). 2. Replace Limit Switch(es). 3. Check with multimeter.

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.
Alarm 1 (Slow) will reset after 30 seconds. Once the H-Bridge cools down, the user can continue using the system.
Alarm 1 (Fast) will continue to sound until the Emergency Stop has been reset.
Alarms 2-5 will sound until the Emergency Stop has been cycled. To cycle the E-Stop,, depress button, wait 10 seconds and then reset button. If the fault is not corrected, the system will reissue the alarm. The user will need to make any corrections to the system to use it again.

Section 7- Warranty

"2 YEAR" LIMITED WARRANTY FOR WALLSLIDE SYSTEMS.

For a period of two years or 2000 hours of operation from the date of original sale, whichever occurs first, WallSlide will, at its option, repair or replace any part which, upon examination, inspection and testing by a WallSlide Authorized Warranty Service Dealer, is found to be defective under normal use and service, in accordance with the warranty schedule set forth below. Any equipment that the purchaser/owner claims to be defective must be returned to and examined by the nearest WallSlide Authorized Warranty Service Dealer. All transportation costs under the warranty, including return to the factory, are to be borne and prepaid by the purchaser/owner. This warranty applies only to
WallSlide prepackaged cargo systems sold and rated for use in vehicle applications.

WARRANTY SCHEDULE

YEARS ONE and TWO - 100% (one hundred percent) transferable coverage on Labor and Part(s) listed (proof of purchase and maintenance is required). All warranty expense allowances are subject to the conditions defined in WALLSLIDE'S Warranty Policy.

THIS WARRANTY SHALL NOT APPLY TO THE FOLLOWING:

- WallSlide systems that utilize non-WallSlide replacement parts.
- Any WallSlide systems used as rental applications.
- Costs of normal maintenance, adjustments, installation and start-up.
- Failures caused by any contaminated lubricants or defective batteries.
- Failures due, but not limited, to normal wear and tear, accident, misuse, abuse, negligence or improper installation. As with all mechanical devices, the WallSlide systems need periodic part(s) service and replacement to perform well. This warranty will not cover repair when normal use has exhausted the life of a part(s).
- Failures caused by any external cause or act of God, such as collision, theft, vandalism, riot or wars, nuclear holocaust, fire, freezing, lightning, earthquake, windstorm, hail, volcanic eruption, water or flood, tornado or hurricane.
- Damage related to rodent infestation.
- Products that are modified or altered in a manner not authorized by WallSlide in writing.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failure due to misapplication.
- Telephone, cellular phone, facsimile, internet access or other communication expenses.
- Living or travel expenses of person(s) performing service, except as specifically included within the terms of a specific unit warranty period.
- Expenses related to "customer instruction" or troubleshooting where no manufacturing defect is found.
- Rental equipment used while warranty repairs are being performed.
- Overnight freight costs for replacement part(s).
- Overtime labor.
- Batteries, fuses, lights and lubricants.

THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SPECIFICALLY, WALLSLIDE MAKES NO OTHER WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
WALLSLIDE'S ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF PART(S) AS STATED ABOVE. IN NO EVENT SHALL WALLSLIDE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF WALLSLIDE'S NEGLIGENCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.
This warranty gives you specific legal rights. You also have other rights from state to state.