



N1, N2, N3, N4 &NL (Rail)

Instruction Manual

●Caution

Thank you very much for purchasing our product.

Please read this instruction manual carefully before installation to use the product for a long time.

Precautions on Installation

Improper handling of aluminum products during installation may cause abnormal corrosion, resulting in unexpected troubles, please pay attention to the following points.

1. Please confirm that the product is suit for the construction place's weather conditions (wind, snow, etc.).
2. To prevent damage, please do not construct this product where the snow slide directly on the product.
3. Avoid installation of the product in areas where strong winds blow, especially on cliff tops, on the roof top, or on the pathway of the wind.
4. Avoid installation of the product at places with large vertical difference such as edge. In windy areas, install the product not to be fluttered by wind. This product should be installed only on the ground.
5. The foundation drawing indicates the depth of embedding of the product. Pay sufficient attention to the amount (volume) of the foundation concrete when embedding the product in a weak ground. When the product is to be used in cold districts where frost heave is likely to occur, place foundation to the frost heave line or lower.
6. Using sea sand for making mortar may cause corrosion due to its high salt content. Please avoid use of sea sand or wash it thoroughly before using it for mortal.
7. Adhesive bonds for mortar and concrete may cause corrosion, therefore, avoid using them or choose the adhesive bonds which do not have calcium chlorides, chlorine compounds, or sodium silicate.
8. Make it sure not to attach mortal or concrete extract on the surface and inside of the aluminum products during construction. Those extract are strong alkaline and may cause uneven color or corrosion.
9. When using bonds or chemicals which may occur the corrosion during the construction work, avoid contact to the aluminum products.

10. Please check the screws again that they are tighten up enough after completion of the installation work.
10. Avoid contact of aluminum products with dissimilar metals such as copper plate and lath. If their contact is inevitable, cover the surface with a plastic tape or insulate it with paint, etc.
11. Do not modify or remodel the product.
12. Please put items or equipment in order, and ensure the security especially collapse and falling while working in a high place and intensity of illumination by light in construction site.
13. Please make sure the security by each other and check the operator's health and implement the health management.

Packing List

■ N1, N2 H12/14

H	CODE	Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S
H12	SR-K193	Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224	Post Space Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	SR-K194	Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K225	Post Space Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Packages	FRB14	Rail Parts Set 2 Connections	1																		
	FRB1	Rail Parts Set 3 Connections		1	1	1															
	FRB2	Rail Parts Set 4 Connections					1	1	1												
	FRB3	Rail Parts Set 5 Connections								1	1	1	1								
	FRB4	Rail Parts Set 6 Connections												1	1	1	1	1			
	FRB6	Rail Parts Set 8 Connections																	1	1	1
	SR-K269	NR Flat Rail Burying Parts Box S Width 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flat Rail	FRS40-170-1	Stainless Steel Flat Rail 40-170 (1)		1		1		1		1		1		1		1				1	
	FRS-40-170-2	Stainless Steel Flat Rail 40-170 (2)		1	1		2	1	1	2	2	1	1	2	2	1	1		4	3	3
	FRS-40-220-1	Stainless Steel Flat Rail 40-220 (1)			1			1			1		1	1		1				1	
	FRS-40-220-2	Stainless Steel Flat Rail 40-220 (2)	1			1			1			1	1		1	1	2	3			1

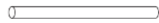
■N1, N2 H16/18 & NL

H	CODE	Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S	125S	13S	135S	14S	145S	15S
H12	SR-K193	Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224	Post Space Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	SR-K194	Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K225	Post Space Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H16	SR-K195	Lock Door Stop Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K226	Post Space Cover H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H18	SR-K196	Lock Door Stop Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K227	Post Space Cover H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Packages	FRB14	Rail Parts Set 2 Connections	1																								
	FRB1	Rail Parts Set 3 Connections		1	1	1																					
	FRB2	Rail Parts Set 4 Connections					1	1		1																	
	FRB3	Rail Parts Set 5 Connections							1		1	1															
	FRB4	Rail Parts Set 6 Connections											1	1	1	1	1	1									
	FRB5	Rail Parts Set 7 Connections																	1	1	1	1					
	FRB7	Rail Parts Set 9 Connections																					1	1	1	1	1
	SR-K270	NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flat Rail	FRS40-174-1	Stainless Steel Flat Rail 60-174 (1)		1			1	1	1			1	1		1	1			1		1	1		1		1	
	FRS-40-174-2	Stainless Steel Flat Rail 60-174 (2)		1	1		1		2		2	1	2	2	1	1	1		1	1			4	3	3	2	2
	FRS-40-224-1	Stainless Steel Flat Rail 60-224 (1)			1	1	1	1			1		1		1	1				1			1		1		1
	FRS-40-224-2	Stainless Steel Flat Rail 60-224 (2)	1			1		1		2		1		1	1	1	2	3	2	2	3	3		1	1	2	2

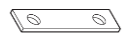
■N3, N4

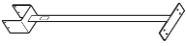
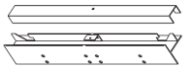
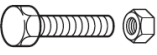
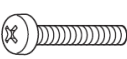
H	CODE	Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S
H12	SR-K193	Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224	Post Space Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	SR-K194	Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K225	Post Space Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H16	SR-K195	Lock Door Stop Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K226	Post Space Cover H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H18	SR-K196	Lock Door Stop Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K227	Post Space Cover H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Packages	FRB14	Rail Parts Set 2 Connections	1																		
	FRB1	Rail Parts Set 3 Connections		1	1	1	1														
	FRB2	Rail Parts Set 4 Connections						1	1	1	1										
	FRB3	Rail Parts Set 5 Connections										1	1	1	1						
	FRB4	Rail Parts Set 6 Connections														1	1	1	1		
	FRB5	Rail Parts Set 7 Connections																		1	1
	SR-K270	NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flat Rail	FRS40-174-1	Stainless Steel Flat Rail 60-174 (1)		1				1		1		1		1		1		1			1
	FRS-40-174-2	Stainless Steel Flat Rail 60-174 (2)		1	1	1		1	1			1	1			1	1			2	1
	FRS-40-224-1	Stainless Steel Flat Rail 60-224 (1)			1	1	1	1		1			1		1	1		1		1	
	FRS-40-224-2	Stainless Steel Flat Rail 60-224 (2)	1				1		1	1	2	1	1	2	2	1	2	2	3	1	2

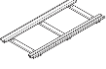
Parts List

Lock Door Stop Post		Code/Packing Name			
		SR-K193	SR-K194	SR-K195	SR-K196
		Lock Door Stop Post H12	Lock Door Stop Post H14	Lock Door Stop Post H16	Lock Door Stop Post H18
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Door Stop Post H12		1			
Door Stop Post H14			1		
Door Stop Post H16				1	
Door Stop Post H18					1
Anchor Stick		1	1	1	1

Post Space Cover		Code/Packing Name			
		SR-K224	SR-K225	SR-K226	SR-K227
		Post Space Cover H12	Post Space Cover H14	Post Space Cover H16	Post Space Cover H18
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Post Space Cover H12		1			
Post Space Cover H14			1		
Post Space Cover H16				1	
Post Space Cover H18					1
Screw Set Truss Head Self Drill Screw φ 5 × 16L (4pcs)		1	1	1	1

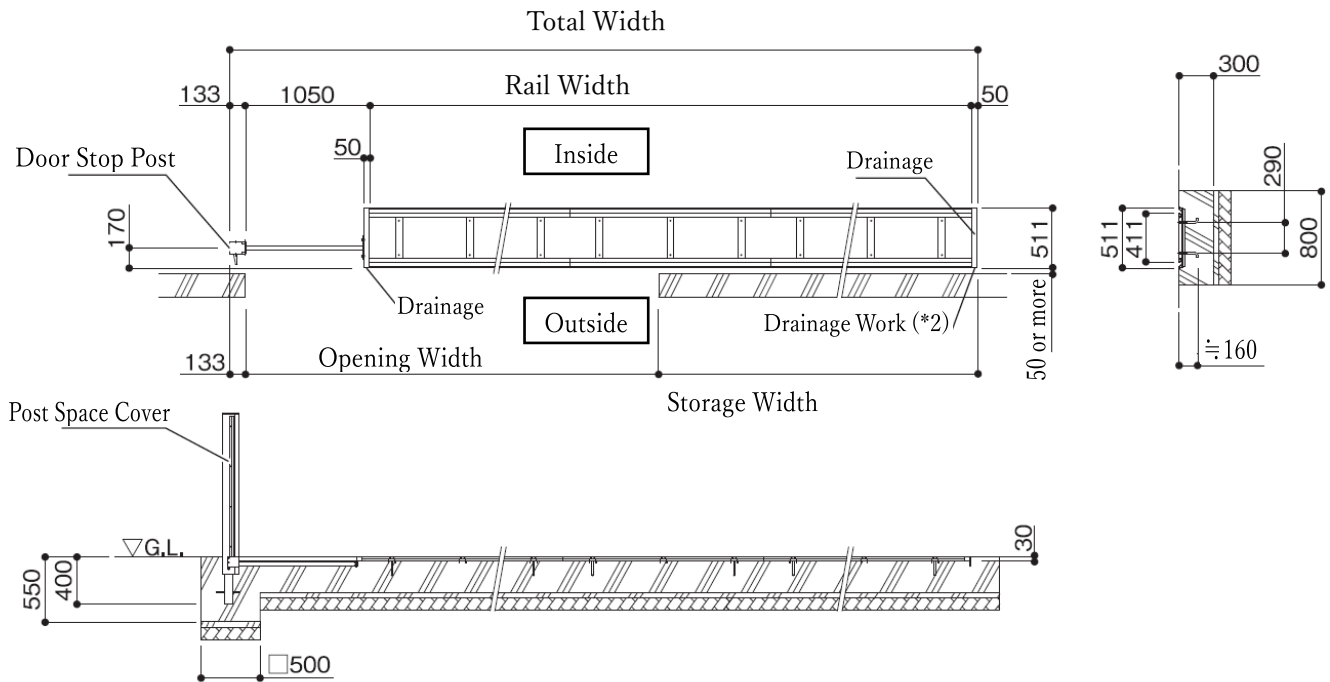
Post Space Cover		Code/Packing Name								
		FRB14	FRB1	FRB2	FRB3	FRB4	FRB5	FRB6	FRB7	FRB8
		Rail Parts Set								
		2 Connections	3 Connections	4 Connections	5 Connections	6 Connections	7 Connections	8 Connections	9 Connections	10 Connections
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Anchor Bolt M12 × 150L				1			1			
Rail Joint					1			1	1	
Rail Connect Bolt Set Pan-head Screw M5 × 15L (8PCS)		1	1	1	1	1	1	1	1	1

Burying Parts Box		Code/Packing Name	
		FRB14	FRB8
		Rail Parts Set	
		2 Connections	10 Connections
Parts Name	Shape	Quantity	Quantity
Flat Rail Attachment		4	4
Rail Positioning		1	1
NR Post Attachment (Door Stop Post Side) Width 400 *With Drain Cover		1	
NR Post Attachment (Door Stop Post Side) Width 400 *With Drain Cover			1
NR Post Attachment (Storage Side) Width 400 *Without Drain Cover		1	
NR Post Attachment (Storage Side) Width 400 *Without Drain Cover			1
Screw Set Hexagon Bolt & Nut (M8 × 20L × 8pcs) Pan-head Screw (M5 × 15L × 4pcs) Pan-head Screw (M5 × 25L × 4pcs)	  	1	1
Instruction Manual		1	1

Flat Rail		Code/Packing Name							
		FRS40-				FRS60-			
		170-1	170-2	220-1	220-2	174-1	174-2	224-1	224-2
		Stainless Flat Rail 40-				Stainless Flat Rail 60-			
		170 (1)	170 (2)	220 (1)	220 (2)	174 (1)	174 (2)	224 (1)	224 (2)
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Stainless Flat Rail 400 × 1700L		1	2						
Stainless Flat Rail 400 × 2200L				1	2				
Stainless Flat Rail 600 × 1740L						1	2		
Stainless Flat Rail 600 × 2240L								1	2

Installation Drawing

● Flat Stainless Rail Width 400



*1 Install the long rail to short rail from storage side.

<For 4S, 45S, 85S and 12S size should install the rail from short to long from storage side.>

*2 For drainage of water from drainage at the end of the rail, design the drainage route with considering the situation of the site.

*3 Foundation part is basic size. Please design it with considering the situation of the site.

■ Code and Dimension Table

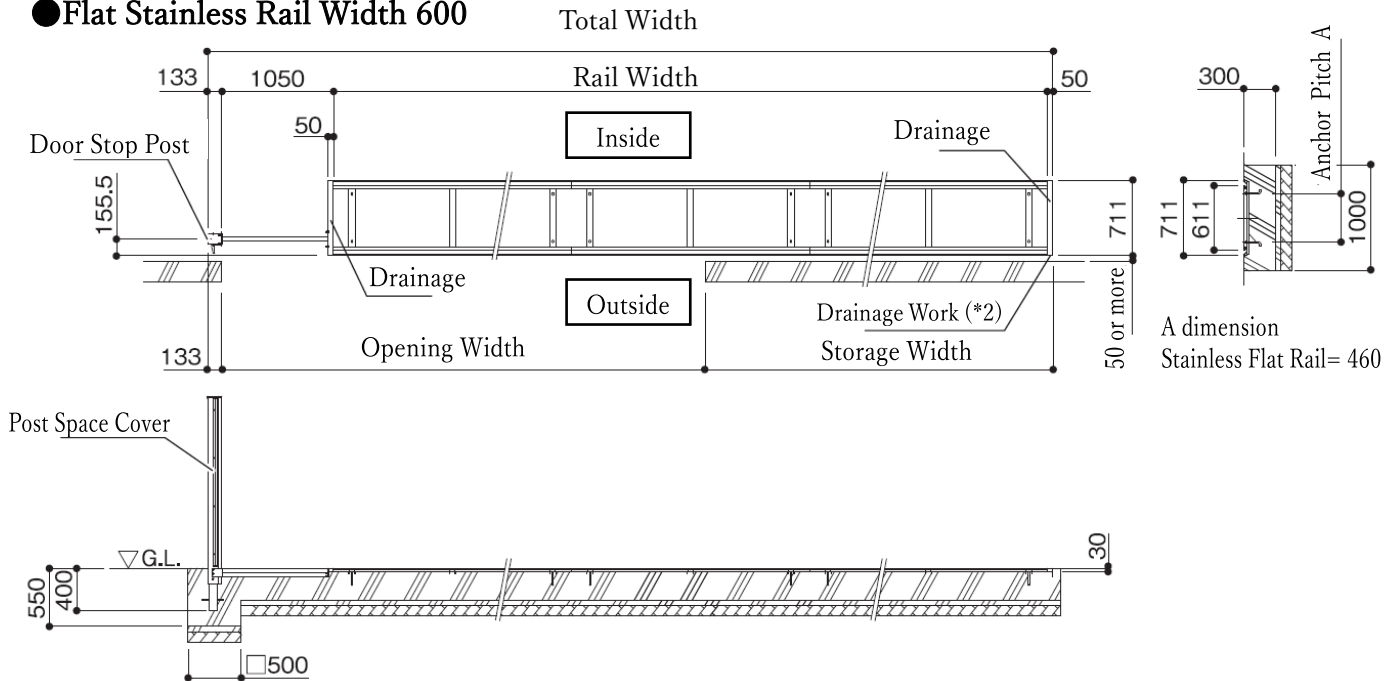
NR	F	(R · L)	(S)	Size	S
1: Vertical Lattice	H12	R: Right Side Close	Opening Width	Colour	
2: Cross Lattice	H14	L: Left Side Close	Single Open		
1: Vertical Lattice		S: Stainless Steel Rail			
2: Cross Lattice					

● NR1/2 H12/14

(mm)

Size	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	10S	105S	11S	115S	12S
Total Width	5633	6333	6833	7333	8033	8533	9033	9733	10233	10733	11233	11933	12433	13433	14333	14833	15333	15833
Door Width	3378	3878	4378	4946	5446	5946	6446	7014	7514	8014	8514	9082	9582	10582	11082	11582	12082	12582
Opening Width	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000	10500	11000	11500	12000
Storage Width	2500	2700	2700	2700	2900	2900	2900	3100	3100	3100	3100	3300	3300	3300	3800	3700	3700	3700

● Flat Stainless Rail Width 600



*1 Install the long rail to short rail from storage side.

<For N1/N2 and NL's 7S, 95S, 10S and N3/N4'S 105S size should install the rail from short to long from storage side.>

*2 For drainage of water from drainage at the end of the rail, design the drainage route with considering the situation of the site.

*3 Foundation part is basic size. Please design it with considering the situation of the site.

■ Code and Dimension Table

NR	F	○ ○	(R · L) - (S)	Size	S	□ □
NR1: Vertical Lattice		H12	R: Right Side Close	Opening Width		Colour
NR2: Cross Lattice		H14	L: Left Side Close			
NRL		H16				Single Open
NR3: Perforated Board		H18	S: Stainless Steel Rail			
NR4: Louver	Flat Rail					

■ N1, N2 H16/18 & NL

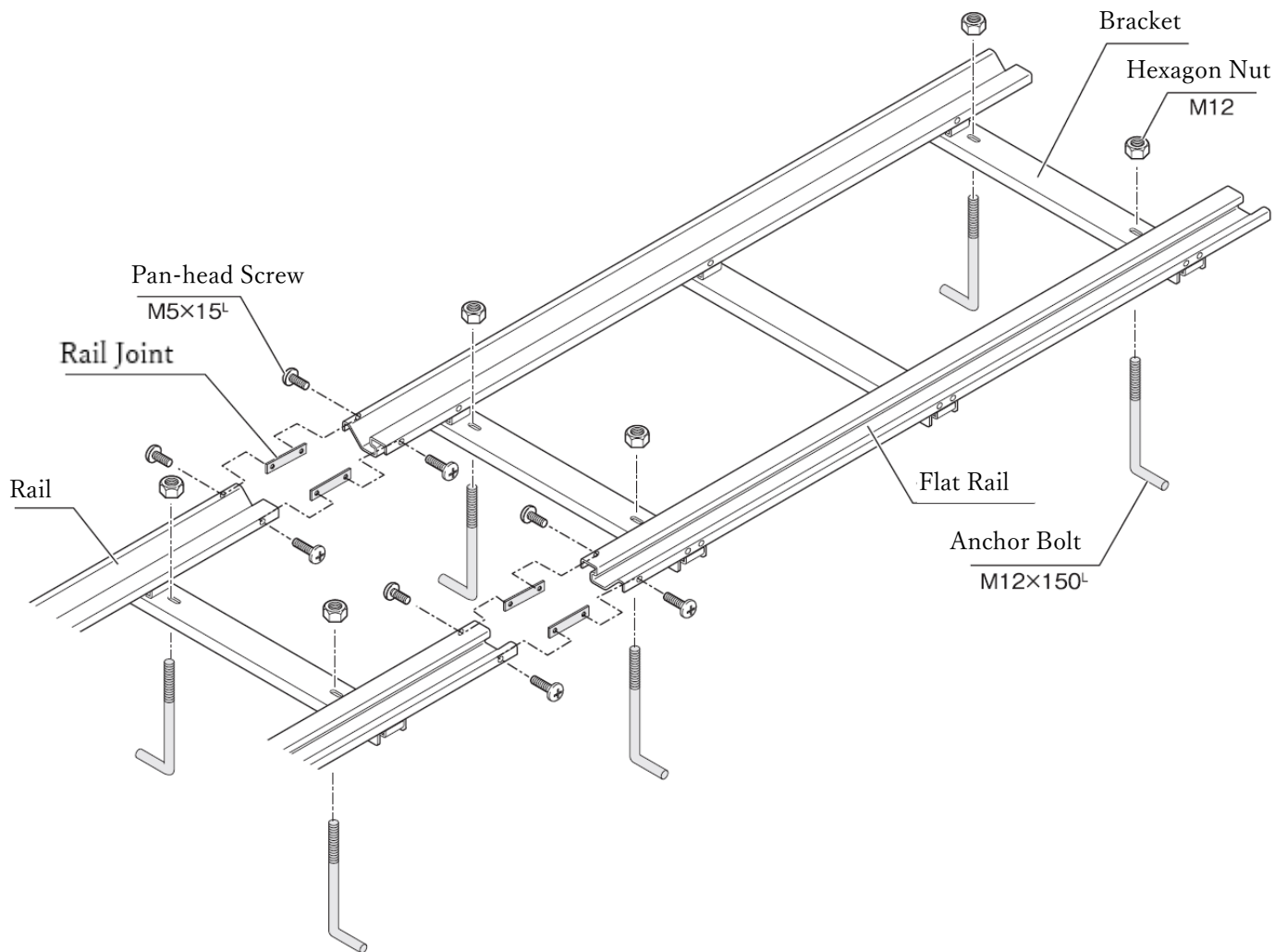
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Total Width	5713	6453	6953	7953	8693	9693	9933	10193	10433	10933	12173	12673	13173	13173	13673	14673	15413	15913	16413	16413	17393	17893	18393	18893	19393
Door Width	3435	3935	4435	4935	5435	5935	6435	7021	7521	8021	8521	9021	9521	10107	10607	11107	11607	12107	12607	13193	13693	14193	14693	15193	15693
Opening Width	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000	12500	13000	13500	14000	14500	15000
Storage Width	2580	2820	2820	3320	3560	4060	3800	3560	3300	3300	4040	4040	4040	3540	3540	4040	4280	4280	4280	3780	4260	4260	4260	4260	4260

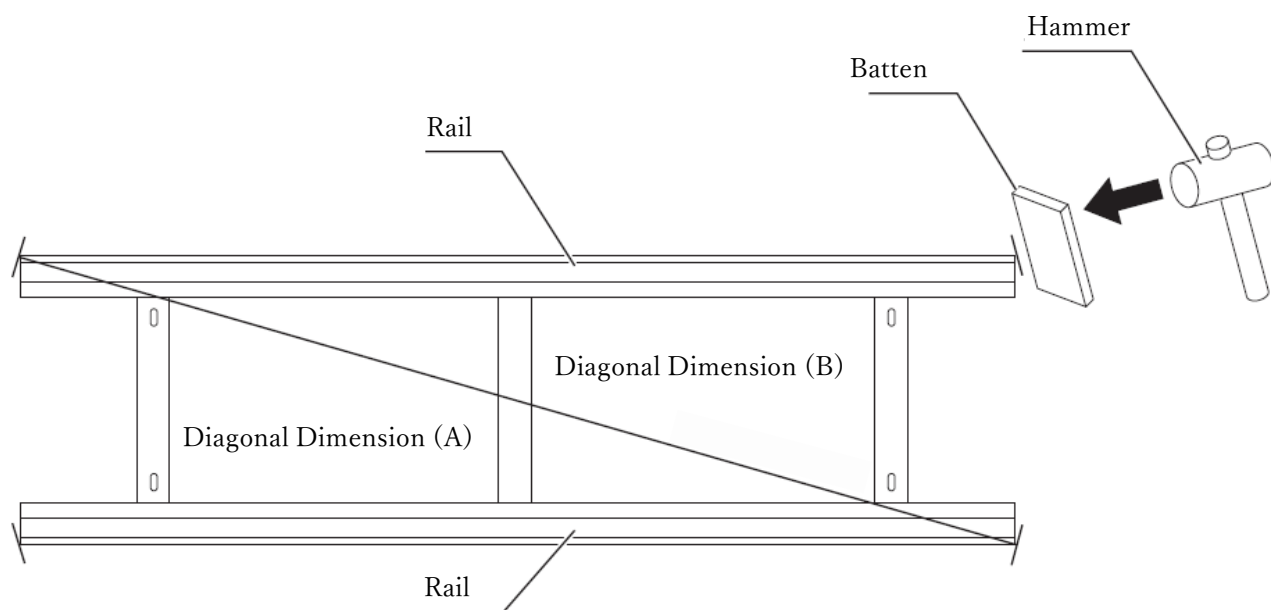
■ N3, N4

	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S
Total Width	5713	6453	6953	6953	7953	8693	9193	9693	10193	10933	11433	11933	12433	13173	13673	14173	14673	14913	15413
Door Width	3435	3935	4435	5021	5521	6021	6521	7107	7607	8107	8607	9193	9693	10193	10693	11279	11779	12279	12779
Opening Width	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	10500	11000	11500	12000
Storage Width	2580	2820	2820	2320	2820	3060	3060	3060	3060	3300	3300	3300	3300	3540	3540	3540	3280	3280	3280

1 Installation of Rail

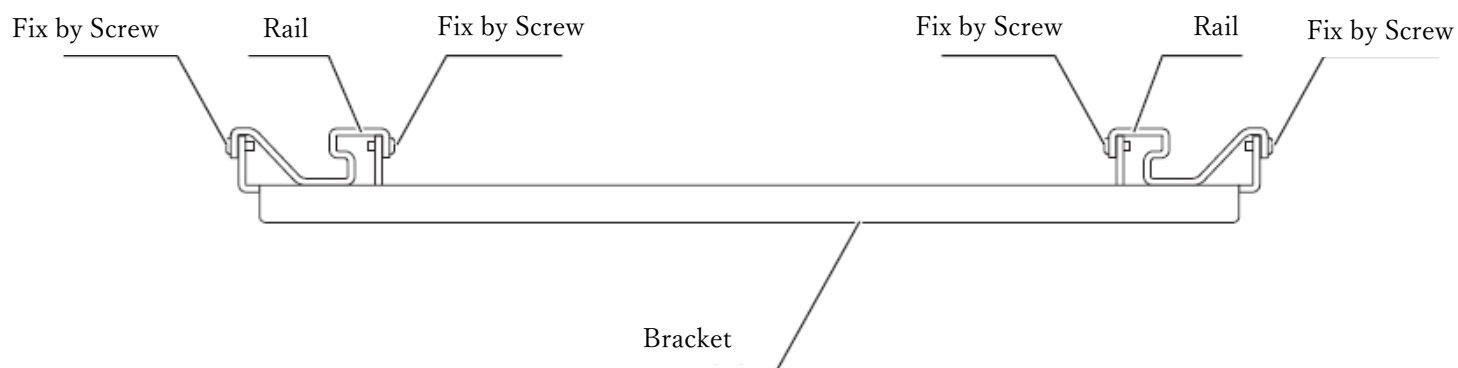
1. Remove any soil or sand from the installation site so that the concrete base for the rails can be thicker than the front and rear walkways.
2. Place the rails on blocks etc. to temporarily place them in place, then connect them with rail joints.
3. Adjust the height and make it level
4. Install anchor bolts into each hole in the bracket.





*Before installation, measure the diagonal dimensions and make sure that the difference between diagonal dimensions A and B is within 3 mm.

If it is more than 3mm, place a batten on the longer diagonal dimension and hit it with a hammer so that the diagonal dimensions A and B are equal.

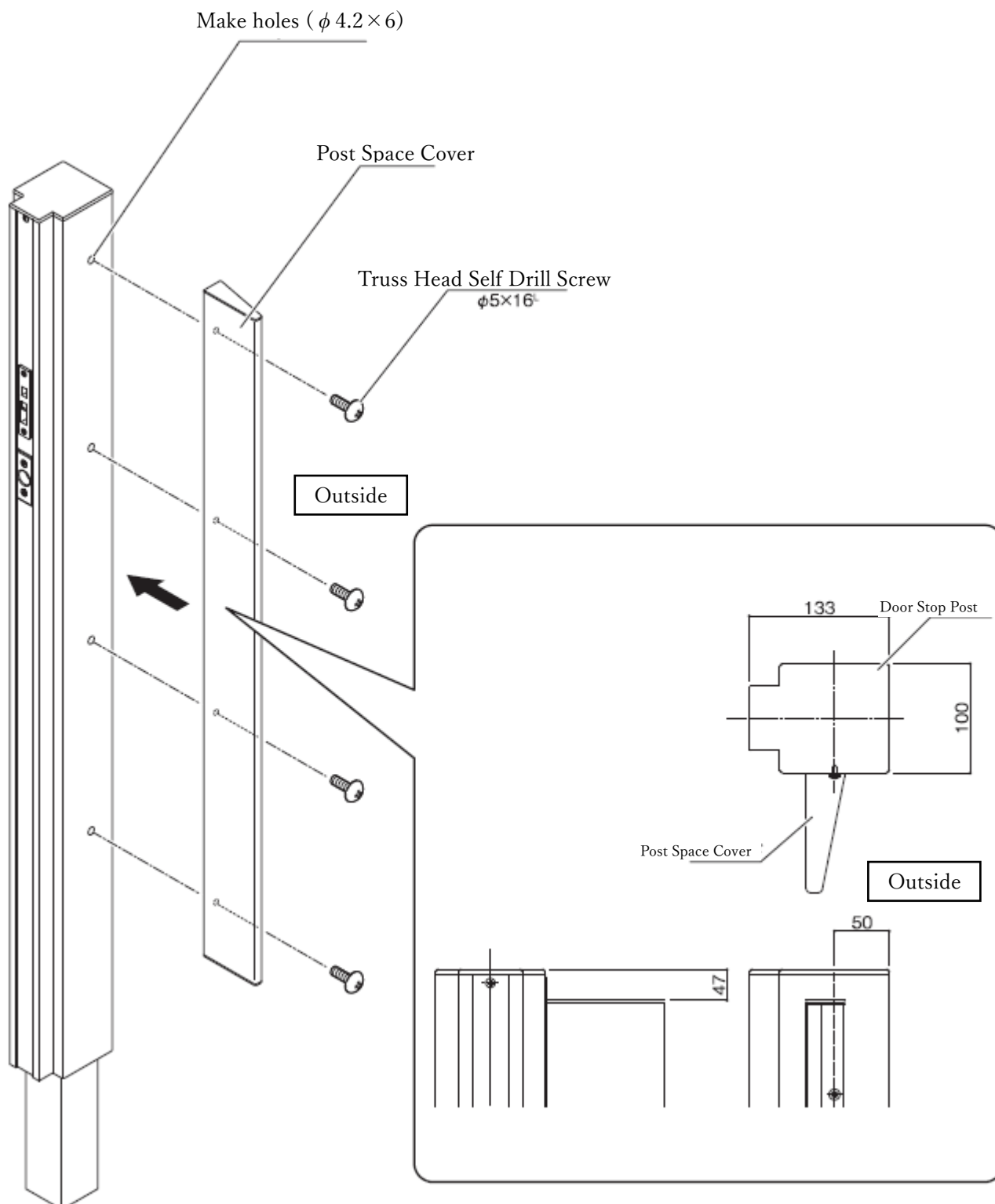


2

Installation of Post Space Cover *Single Open Only

1. Make holes ($\phi 4.2 \times 4$) and install the post space cover.

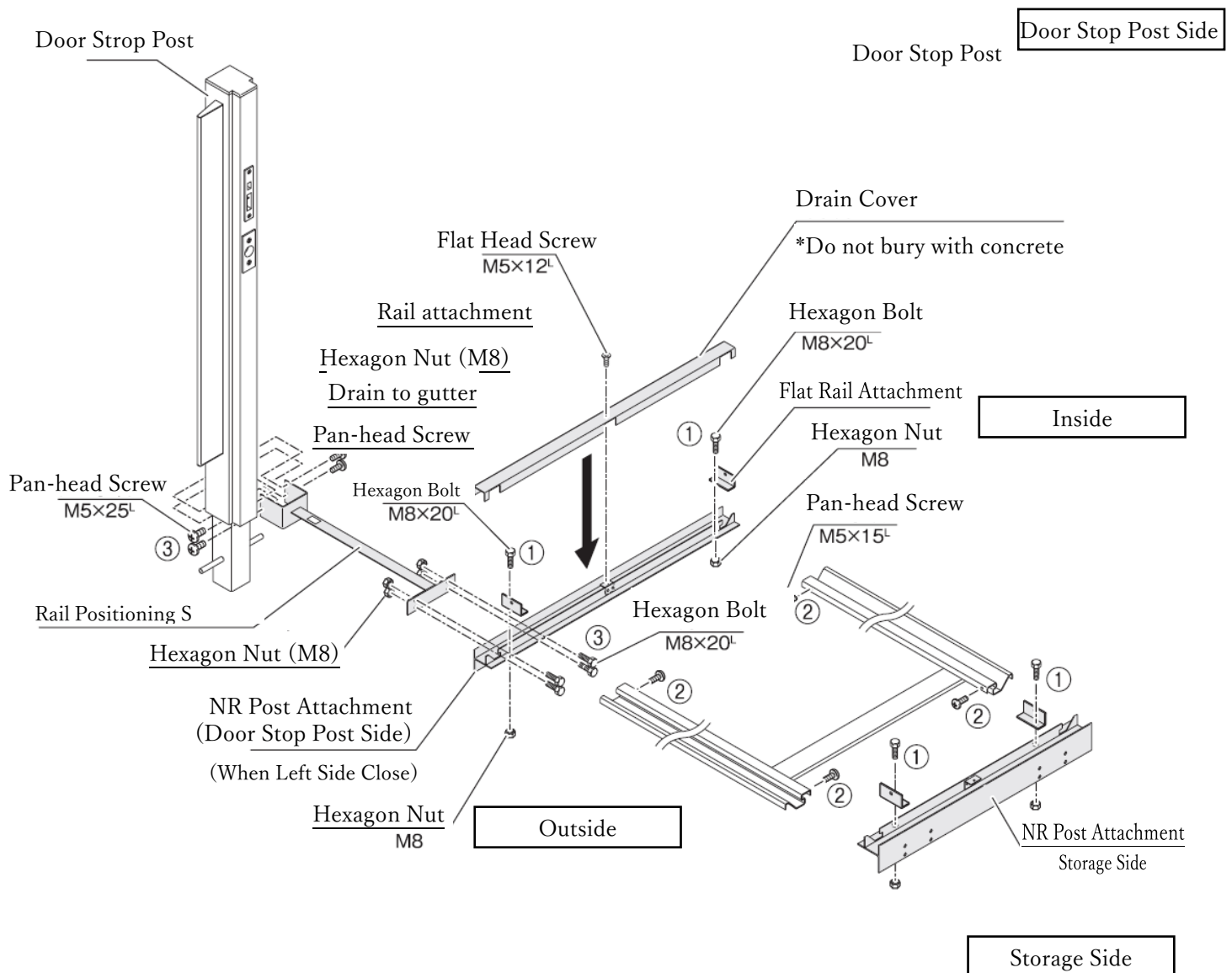
(In this time, the top part of post space cover comes to 47mm below the door stop post.)



3

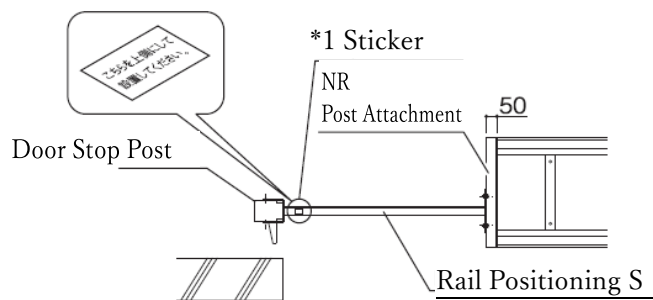
Installation of Door Stop Post and Post Attachment

1. Install flat rail attachment to NR post attachment.
2. Install flat rail attachment to rail.
3. Confirm whether left or right close, connect door stop post and NE post attachment with rail positioning S.
4. Connect storage side's end rail to storage side's NR post attachment.
5. Eliminate bends and gaps in rail joints by using leveling string.
6. Confirm the door stop post's vertical and parallel.
7. Remove the drain cover not to be fixed by concrete.
8. Make drainage to storage side by using NR post attachment.
9. Bury rail and post by concrete.



*1 Sticker must come to the upper side. If it wrong, the height of post and rail do not meet the right position.

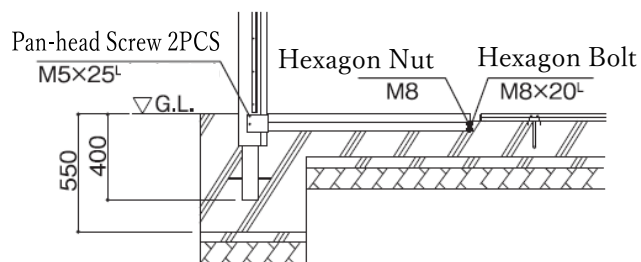
*2 This drawing shows left side close.



The concrete between the rails should be finished flat without any water gradient.



Fill the gaps in the rails with concrete.





SHIKOKU

N1&N2 (H12/H14)

Instruction Manual

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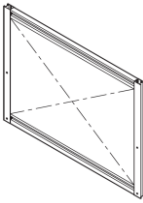
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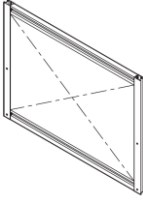
Packing List

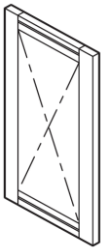
■ N1, N2 H12/14

H	CODE		Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S
	NR1	NR2																				
H12	SR-K1	SR-K19	SR 1stPanel 1.5m-H12 (R)/(L)	1			1															
	SR-K7	SR-K25																				
	SR-K3	SR-K21	SR 1stPanel 2.0m-H12 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1					
	SR-K9	SR-K27																				
	SR-K5	SR-K23	SR 1stPanel 2.5m-H12 (R)/(L)																1	1	1	1
	SR-K11	SR-K29																				
	SR-K13	SR-K31	SR Panel 1.5M-H12	1	1		2	2	1		3	2	1		3	2	1					
	SR-K15	SR-K33	SR Panel 2.0M-H12			1			1	2		1	2	3	1	2	3	4	4	3	2	1
	SR-K17	SR-K35	SR Panel 2.5M-H12																	1	2	3
	SR-K160/ SR-K167		Lock Door Frame H12 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K193		Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K202		Guard Fence H12 (Width 400)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K213		Vertical Door Frame Cover H12	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4
	SR-K220		SR Wheel Frame Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224		End Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	SR-K2	SR-K20	SR 1stPanel 1.5m-H14 (R)/(L)	1			1															
	SR-K8	SR-K26																				
	SR-K4	SR-K22	SR 1stPanel 2.0m-H14 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1	1				
	SR-K10	SR-K28																				
	SR-K6	SR-K24	SR 1stPanel 2.5m-H14 (R)/(L)																1	1	1	1
	SR-K12	SR-K30																				
	SR-K14	SR-K32	SR Panel 1.5M-H14	1	1		2	2	1		3	2	1		3	2	1					
	SR-K16	SR-K34	SR Panel 2.0M-H14			1			1	2		1	2	3	1	2	3	4	4	3	2	1
	SR-K18	SR-K36	SR Panel 2.5M-H14																	1	2	3
	SR-K161/ SR-K168		Lock Door Frame H14 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K194		Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K203		Guard Fence H14 (Width 400)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K214		Vertical Door Frame Cover H14	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4
	SR-K221		SR Wheel Frame Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Package	SR-K225		End Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K137		1st Wheel Frame S-1 (Width 400)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K140		Wheel Frame S-3 (Width 400)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K141		Wheel Frame S-4 (Width 400)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K142		Wheel Frame S-5 (Width 400)				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K143		Wheel Frame S-6 (Width 400)							1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K144		Wheel Frame S-7 (Width 400)												1	1	1	1	1	1	1	1
	SR-K232		1st Caster Parts Box 2 Connections (Width 400)	1	1	1																
	SR-K233		1st Caster Parts Box 3 Connections (Width 400)				1	1	1	1												
	SR-K234		1st Caster Parts Box 4 Connections (Width 400)								1	1	1	1								
	SR-K235		1st Caster Parts Box 5 Connections (Width 400)												1	1	1	1	1	1	1	1
	FRB14		Rail Parts Set 2 Connections	1																		
	FRB1		Rail Parts Set 3 Connections		1	1	1															
	FRB2		Rail Parts Set 4 Connections					1	1	1												
	FRB3		Rail Parts Set 5 Connections								1	1	1	1								
	FRB4		Rail Parts Set 6 Connections												1	1	1	1	1			
	FRB6		Rail Parts Set 8 Connections																	1	1	1
Stainless Steel Flat Rail	SR-K269		NR Flat Rail Burying Parts Box S Width 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	FRS40-170-1		Stainless Steel Flat Rail 40-170 (1)		1		1		1		1		1		1		1				1	
	FRS40-170-2		Stainless Steel Flat Rail 40-170 (2)		1	1		2	1	1	2	2	1	1	2	2	1	1		4	3	3
	FRS40-220-1		Stainless Steel Flat Rail 40-220 (1)			1			1			1		1	1		1				1	
	FRS40-220-2		Stainless Steel Flat Rail 40-220 (2)	1			1			1			1	1		1	1	2	3			1

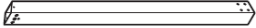
Parts List

SR 1st Panel H12 SR Panel H12		Code/Packing Name									
		NR1	SR-K1	SR-K7	SR-K3	SR-K9	SR-K5	SR-K11	SR-K13	SR-K15	SR-K17
		NR2	SR-K19	SR-K25	SR-K21	SR-K27	SR-K23	SR-K29	SR-K31	SR-K33	SR-K35
		SR 1st Panel 1.5M-H12(R)	SR 1st Panel 1.5M-H12(L)	SR 1st Panel 2.0M-H12(R)	SR 1st Panel 2.0M-H12(L)	SR 1st Panel 2.5M-H12(R)	SR 1st Panel 2.5M-H12(L)	SR 1st Panel 1.5M-H12	SR 1st Panel 2.0M-H12	SR 1st Panel 2.5M-H12	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
SR 1st Panel 1.5M-H12 (R)		1									
SR 1st Panel 1.5M-H12 (L)			1								
SR 1st Panel 2.0M-H12 (R)				1							
SR 1st Panel 2.0M-H12 (L)					1						
SR 1st Panel 2.5M-H12 (R)						1					
SR 1st Panel 2.5M-H12 (L)							1				
SR Pnael 1.5M-H12								1			
SR Panel 2.0M-H12									1		
SR Panel 2.5M-H12										1	

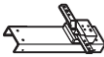
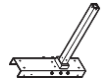
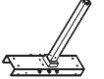
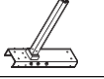
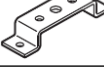
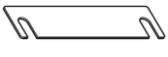
SR 1st Panel H14 SR Panel H14		Code/Packing Name									
		NR1	SR-K2	SR-K8	SR-K4	SR-K10	SR-K6	SR-K12	SR-K14	SR-K16	SR-K18
		NR2	SR-K20	SR-K26	SR-K22	SR-K28	SR-K24	SR-K30	SR-K32	SR-K34	SR-K36
		SR 1st Panel 1.5M-H14(R)	SR 1st Panel 1.5M-H14(L)	SR 1st Panel 2.0M-H14(R)	SR 1st Panel 2.0M-H14(L)	SR 1st Panel 2.5M-H14(R)	SR 1st Panel 2.5M-H14(L)	SR 1st Panel 1.5M-H14	SR 1st Panel 2.0M-H14	SR 1st Panel 2.5M-H14	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
SR 1st Panel 1.5M-H14 (R)		1									
SR 1st Panel 1.5M-H14 (L)			1								
SR 1st Panel 2.0M-H14 (R)				1							
SR 1st Panel 2.0M-H14 (L)					1						
SR 1st Panel 2.5M-H14 (R)						1					
SR 1st Panel 2.5M-H14 (L)							1				
SR Pnael 1.5M-H14								1			
SR Panel 2.0M-H14									1		
SR Panel 2.5M-H14										1	

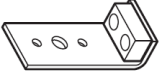
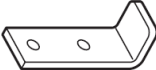
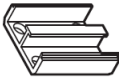
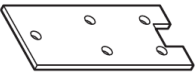
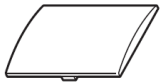
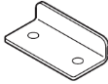
Guard Fence		Code/Packing Name	
		SR-K2	SR-K6
		SR-K20	SR-K24
		SR 1st Panel 1.5M-H14(R)	SR 1st Panel 2.5M-H14(R)
Parts Name	Shape	Quantity	Quantity
Guard Fence H12		1	
Guard Fence H14			1

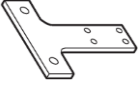
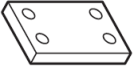
Guard Fence		Code/Packing Name	
		SR-K213	SR-K214
		Vertical Door Frame Cover H12	Vertical Door Frame Cover H14
Parts Name	Shape	Quantity	Quantity
Vertical Door Frame Cover H12		1	
Vertical Door Frame Cover H14			1

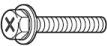
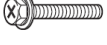
Wheel Frame Post		Code/Packing Name	
		SR-K220	SR-K221
		SR Wheel Frame Post H12	SR Wheel Frame Post H14
Parts Name	Shape	Quantity	Quantity
Wheel Frame Post H12		1	
Wheel Frame Post H14			1
Wheel Frame Post Cap		1	1

Lock Door Frame		Code/Packing Name			
		SR-K160	SR-K161	SR-K167	SR-K168
		Lock Door Frame H12 (R)	Lock Door Frame H14(R)	Lock Door Frame H12 (L)	Lock Door Frame H14 (L)
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Lock Door Frame H12 (R) *with 3 keys		1			
Lock Door Frame H14 (L) *with 3 keys			1		
Lock Door Frame H12 (R) *with 3 keys				1	
Lock Door Frame H14 (L) *with 3 keys					1

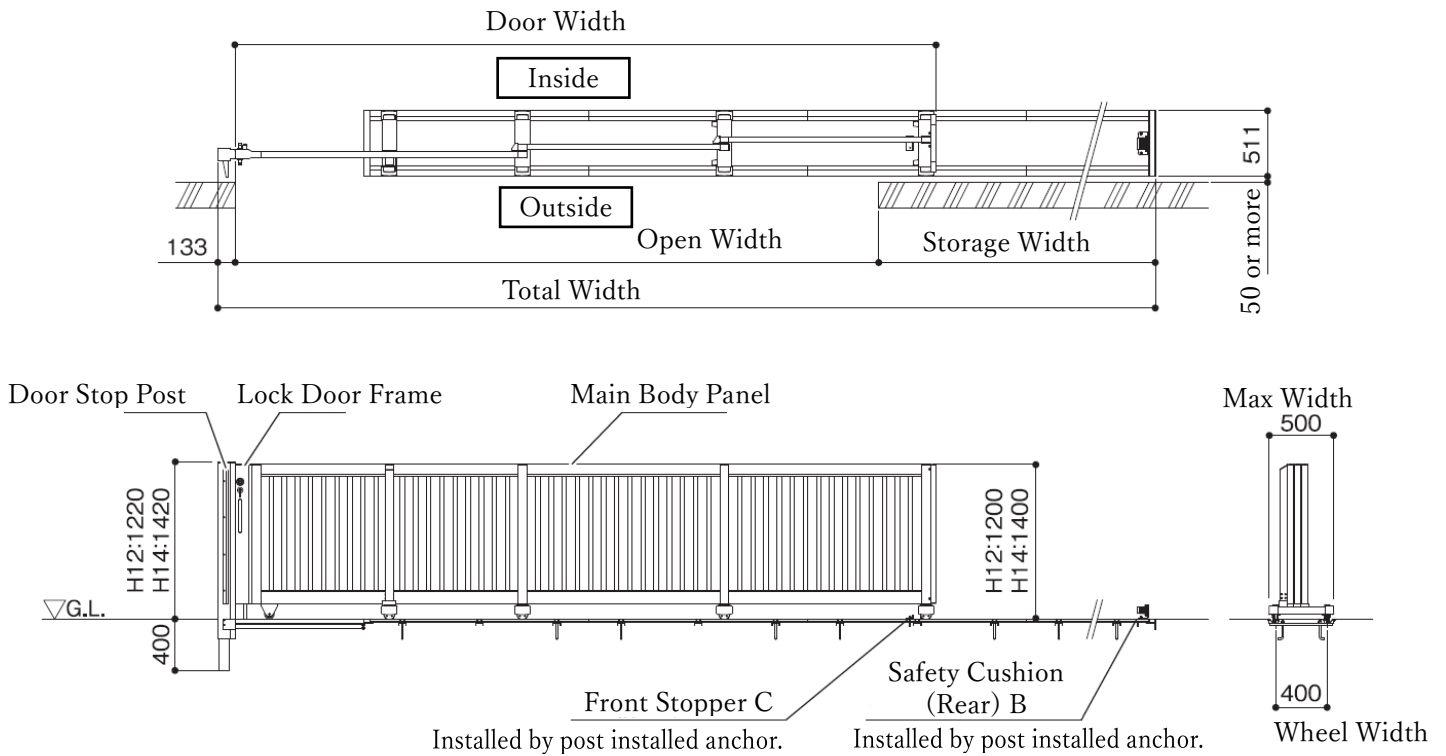
Wheel Frame		Code/Packing Name					
		SR-K137	SR-K140	SR-K141	SR-K142	SR-K143	SR-K144
		1st Wheel Frame S-1 Width 400	Wheel Frame S-3 Width 400	Wheel Frame S-4 Width 400	Wheel Frame S-5 Width 400	Wheel Frame S-6 Width 400	Wheel Frame S-7 Width 400
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
1st Wheel Frame S-1		1					
Wheel Frame S-3			1				
Wheel Frame S-4				1			
Wheel Frame S-5					1		
Wheel Frame S-6						1	
Wheel Frame S-7							1
Wheel TS		2	2	2	2	2	2
Wheel Frame Cap		2	2	2	2	2	2
1st Caster		1					
1st Caster Attachment		1					
Adjustment Spacer		3					
Wheel Frame Connector		1	1	1	1	1	1
Wheel Attachment Screw Set	See Bolt Set Specification	1					

Parts Box		Code/Packing Name			
		SR-K232	SR-K233	SR-K234	SR-K235
		1st Caster Parts Box	1st Caster Parts Box	1st Caster Parts Box	1st Caster Parts Box
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Guide Roller (Upper Side) Round Hole Processed		1	2	3	4
Guide Roller (Underside) Long Hole Processed		1	2	3	4
Reinforce Bracket B		2	3	4	5
Hook		1	2	3	4
Hook Receiver		1	2	3	4
Roller Bracket Spacer		2	4	6	8
Spacer Back Plate		2	4	6	8
Roller Bracket Cover		2	4	6	8
Wheel Frame Cushion		2	4	6	8
Vertical Door Frame Cap		3	5	7	9
Top Vertical Door Frame Cap		2	2	2	2
Safety Cushion (Front)		1	1	1	1
Safety Cushion (Rear) B		1	1	1	1
Front Stopper C		1	1	1	1

Parts Box		Code/Packing Name			
		SR-K232	SR-K233	SR-K234	SR-K235
		1st Caster Parts Box	1st Caster Parts Box	1st Caster Parts Box	1st Caster Parts Box
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Flush Bolt Holder		2	2	2	2
Guard Fence Attachment		2	2	2	2
Guard Fence Attachment Back Plate		2	2	2	2
Rail Cleaner		1	1	1	1
Instruction Manual		1	1	1	1
Operating Instruction		1	1	1	1
For Customer		1	1	1	1
NR 400 Screw Set	See Bolt Set Specification	1	1	1	1
GF/Door Frame Anchor Screw Set	See Bolt Set Specification	1	1	1	1
Width 400 2 Connections Screw Set	See Bolt Set Specification	1			
Width 400 3 Connections Screw Set	See Bolt Set Specification		1		
Width 400 4 Connections Screw Set	See Bolt Set Specification			1	
Width 400 5 Connections Screw Set	See Bolt Set Specification				1

Bolt Set Specification			Code/Packing Name						
			NR 400 Screw Set	GF/ Door Frame Anchor Screw Set	Width 400 2 Connections Screw Set	Width 400 3 Connections Screw Set	Width 400 4 Connections Screw Set	Width 400 5 Connections Screw Set	Wheel Frame Bolt Set
Parts Name	Spec	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Hexagon Bolt	M8 × 30L		8						
Hexagon Bolt	M8 × 20L		4						
Hexagon Bolt	M6 × 30L		2						
Truss Screw	M4 × 10L		2						
Hexagon Bolt	M6 × 15L		2		14	18	22	26	
Truss Screw	M6 × 12L		12		6	10	14	18	
Truss Screw	M5 × 12L		1		22	27	32	37	
Hexagon Bolt *with Colour	M8 × 20L		2		4	6	8	10	
Bolt Cap	φ 13		3						
Hexagon Cap Nut	M8			4					
Flat Washer	8			4					
Spring Washer	8			4					
Cross Recessed Hexagon Head Bolt	M6 × 16L			1					
Hexagon U Nut	M6			1					
Truss Screw	M6 × 25L			1					
Post Installed Anchor	M10 × 100L			4					
Pan-head Screw	M5 × 30L				3	5	7	9	
Flat Washer	5				3	5	7	9	
Tap Hole Cap	M5				3	5	7	9	
Tap Hole Cap	M8				2	2	2	2	
Pan-head Screw	M5 × 12L				1	2	3	4	
Cross Recessed Hexagon Head Bolt	M6 × 30L				10	18	26	34	
Truss Screw	M6 × 12L				2	4	6	8	
Hole Cap	φ 9-1.3t				5	8	11	14	
Vertical Door Frame Sticker	45 × 33.5				4	6	8	10	
Hexagon Bolt	M8 × 25L								4

Installation Drawing



1. Install main body panel from longer panel to shorter panel from door stop post side.
(The panel has 3 lengths, 2.5m, 2m, and 1.5m)
2. This drawing shows left side close (L) 5S size. When right side close (R), the things will be opposite.

Code and Size Table

NR **F** **12** **14** **(R • L) - (S)** **Size** **Colour Code (BK, MR, SC)**

1 : Vertical Lattice
2 : Cross Lattice

12
14

R : Right Side Close
L : Left Side Close

Stainless Steel Flat Rail

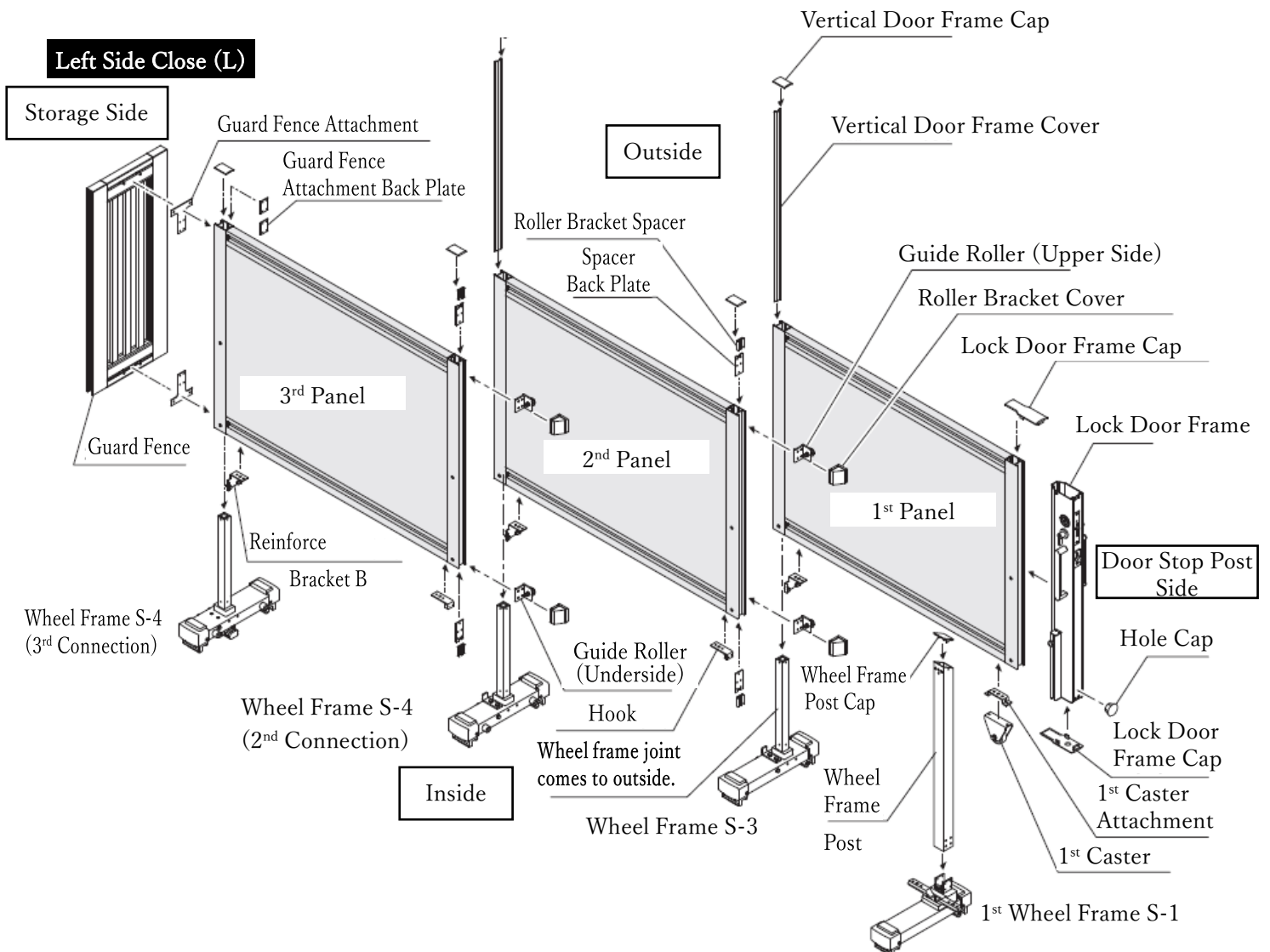
Single Open

Flat Rail

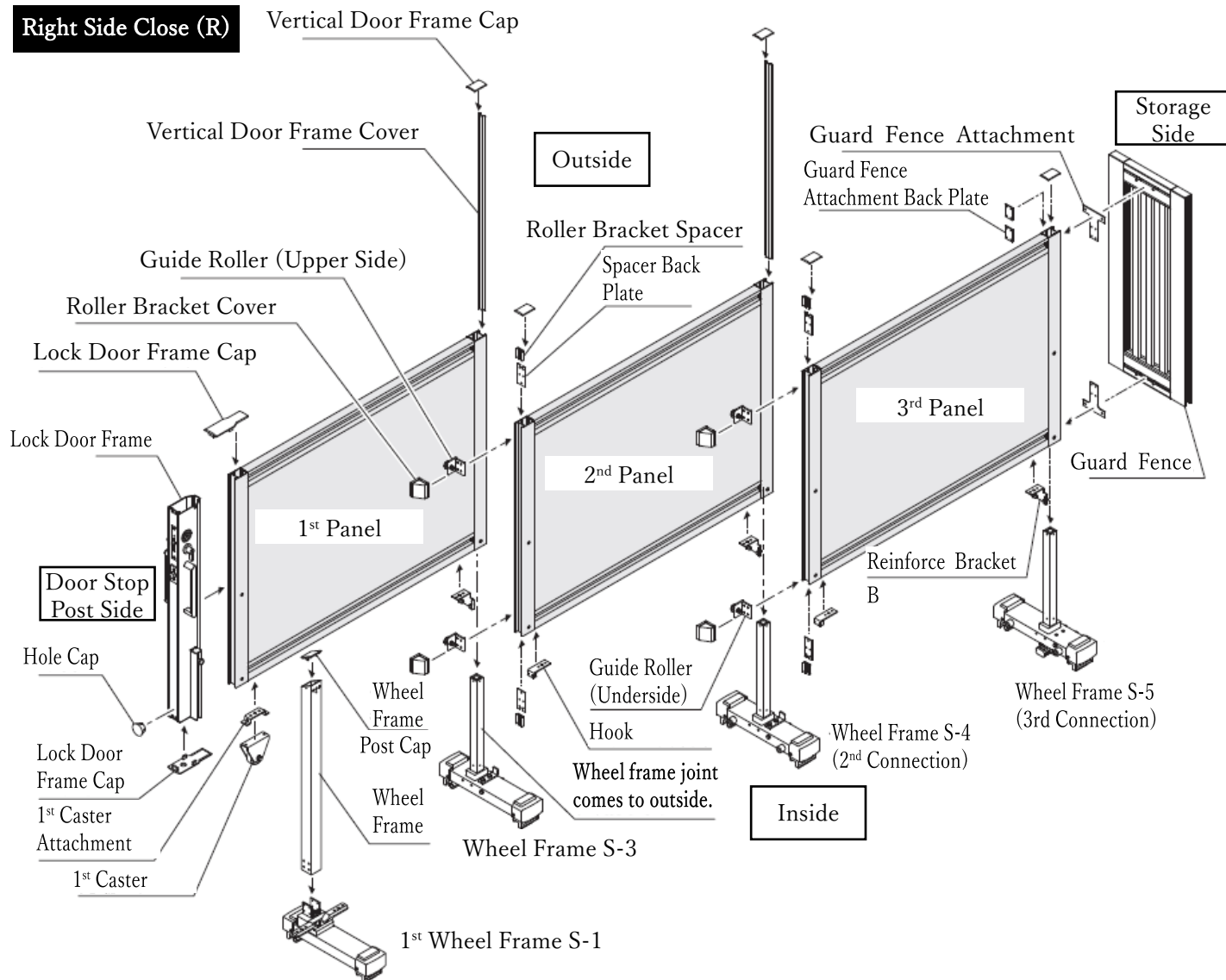
Size	Total Width	Door Width	Open Width	Storage Width
3S	5,633	3,378	3,000	2,500
35S	6,333	3,878	3,500	2,700
4S	6,833	4,378	4,000	2,700
45S	7,333	4,946	4,500	2,700
5S	8,033	5,446	5,000	2,900
55S	8,533	5,946	5,500	2,900
6S	9,033	6,446	6,000	2,900
65S	9,733	7,014	6,500	3,100
7S	10,233	7,514	7,000	3,100
75S	10,733	8,014	7,500	3,100
8S	11,233	8,514	8,000	3,100
85S	11,933	9,082	8,500	3,300
9S	12,433	9,582	9,000	3,300
95S	12,933	10,082	9,500	3,300
10S	13,433	10,582	10,000	3,300
105S	14,433	11,082	10,500	3,800
11S	14,833	11,582	11,000	3,700
115S	15,333	12,082	11,500	3,700
12S	15,833	12,582	12,000	3,700

Construction Flow

1. Install the long main body panels in order starting from the door stop post side.

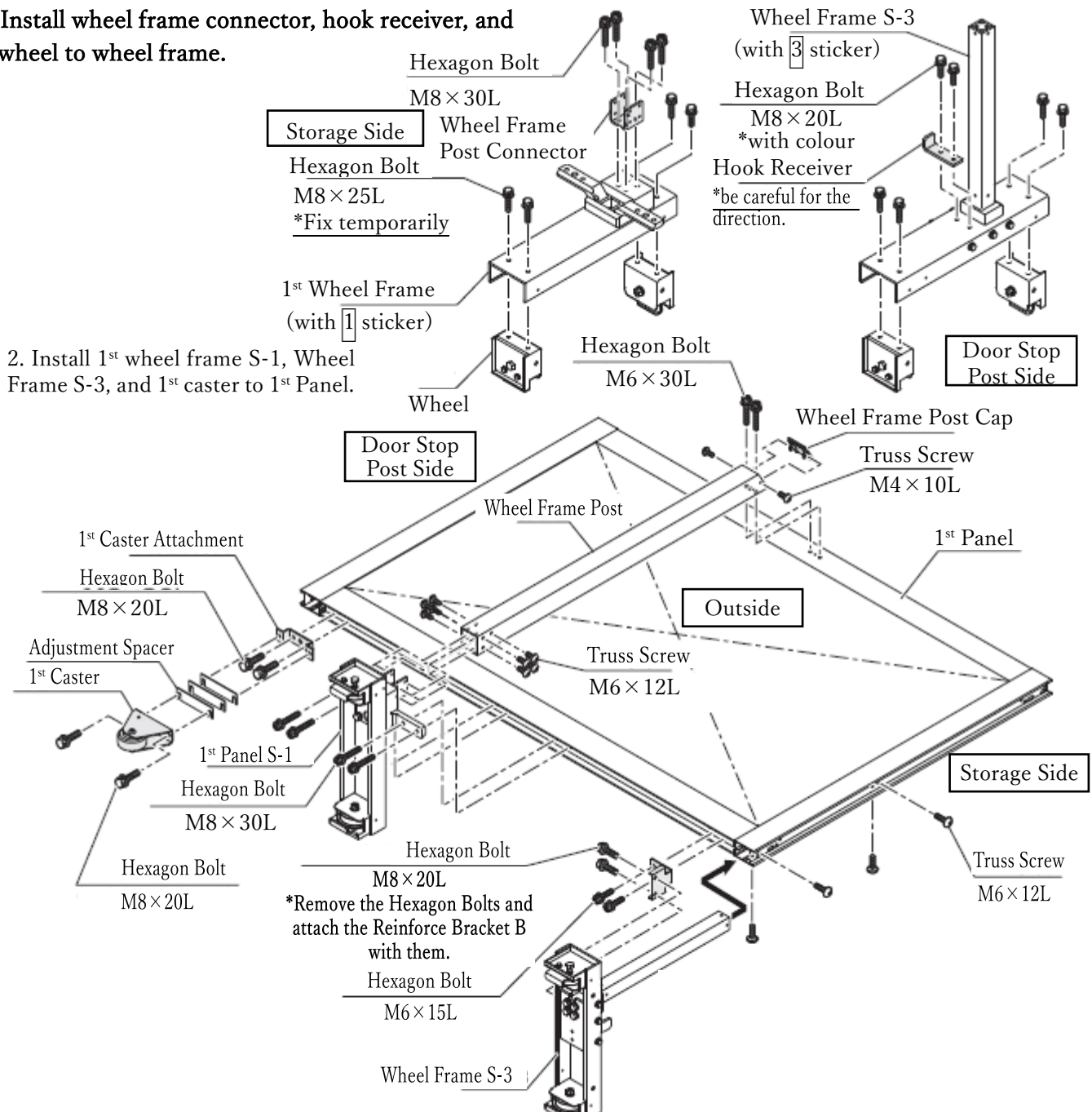


Right Side Close (R)



1 Installation of 1st Panel

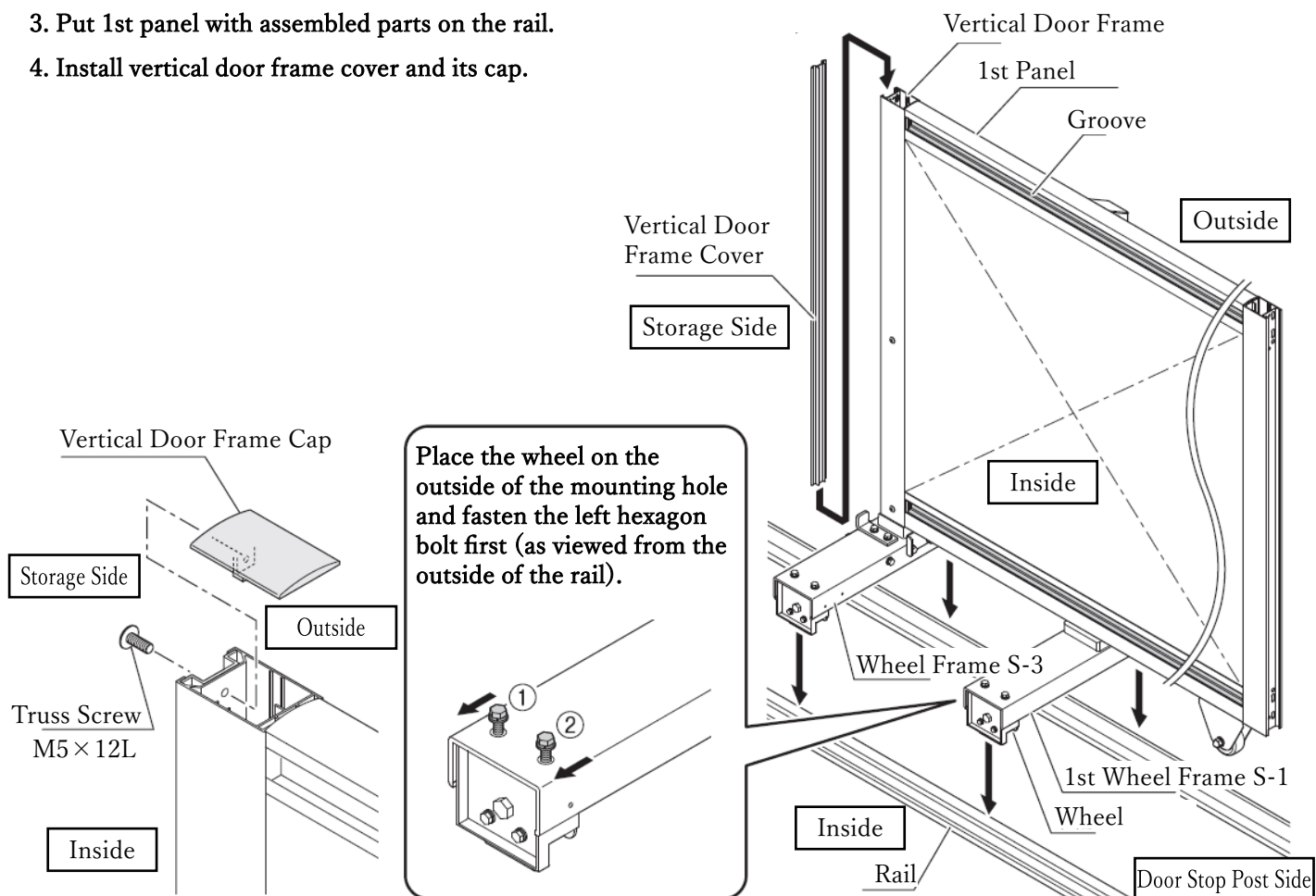
1. Install wheel frame connector, hook receiver, and wheel to wheel frame.



***This drawing shows Left Side Close (L).**

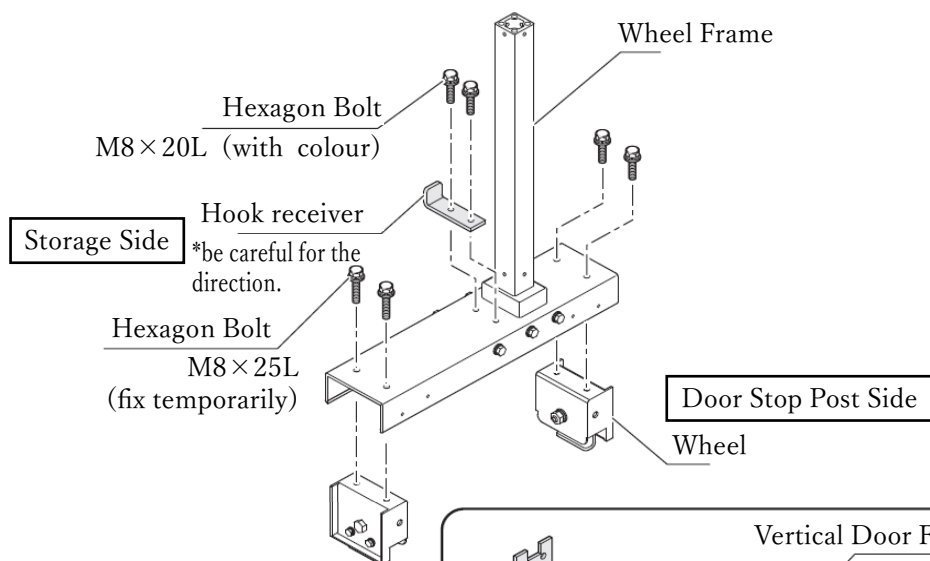
3. Put 1st panel with assembled parts on the rail.

4. Install vertical door frame cover and its cap.

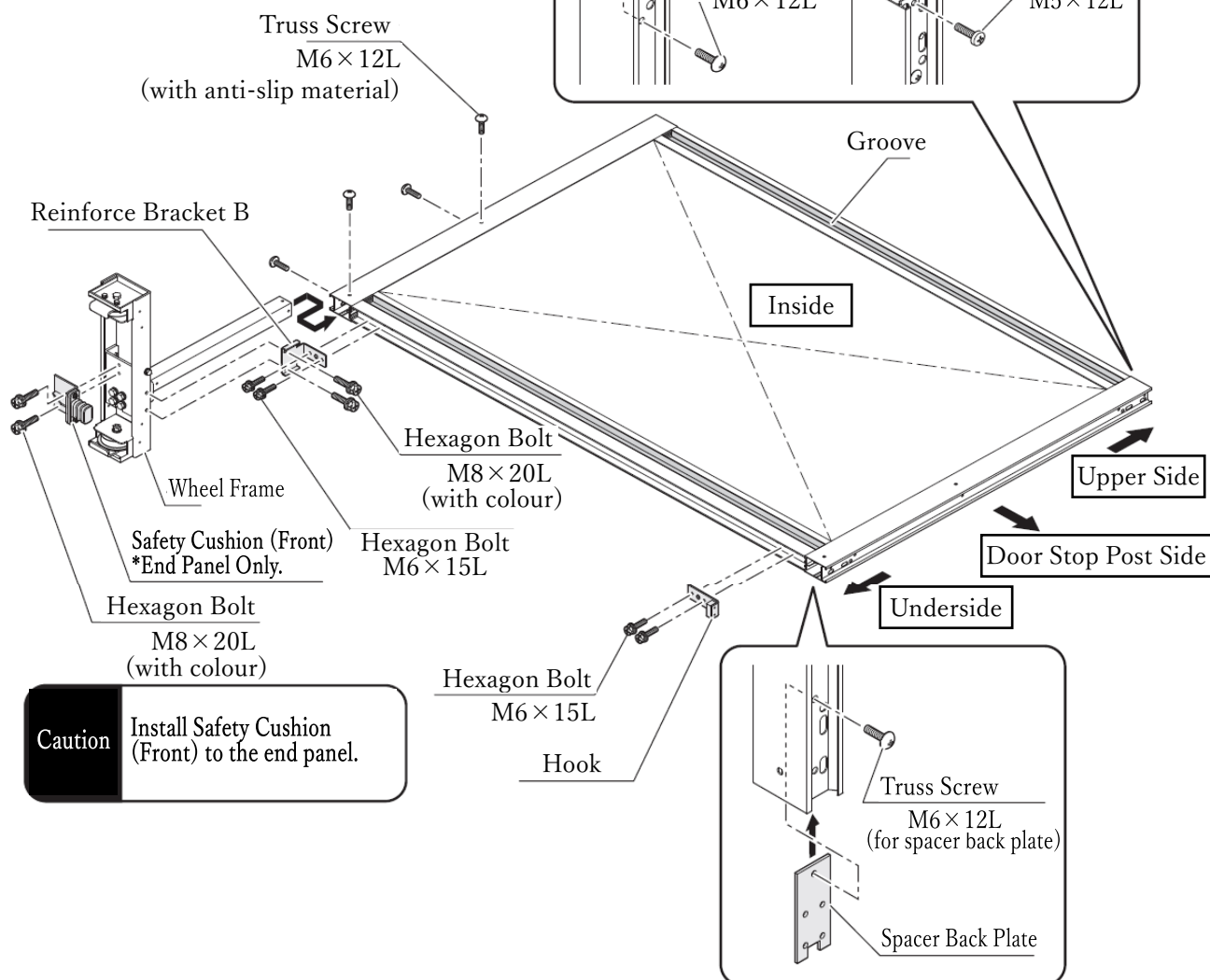


2 Installation of the 2nd and Subsequent Main Body

1. Install hook receiver and wheel to the wheel frame.

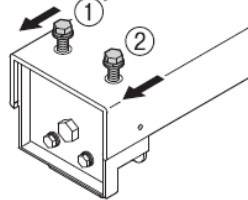


2. Install wheel frame, reinforce bracket B, hook, spacer back plate, roller bracket spacer, and vertical door frame cap to main body panel.

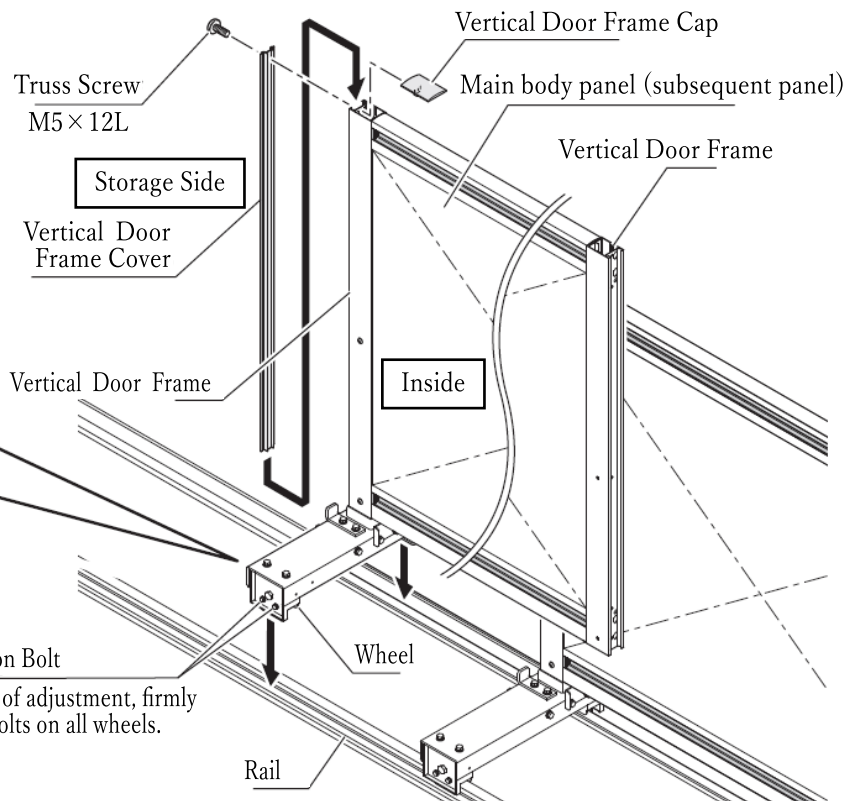


3. Put panel with assembled parts on the rail.
4. Install vertical door frame cover and its cap.

Place the wheel on the outside of the mounting hole and fasten the left hexagon bolt first (as viewed from the outside of the rail).



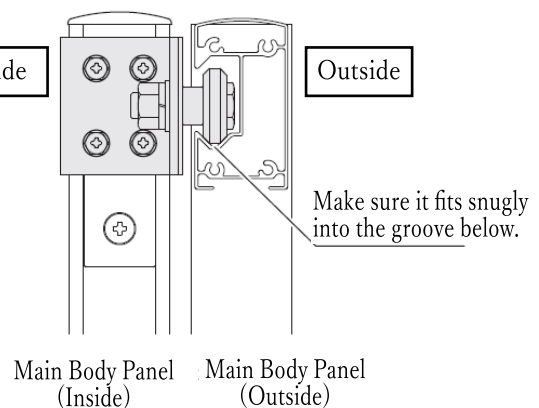
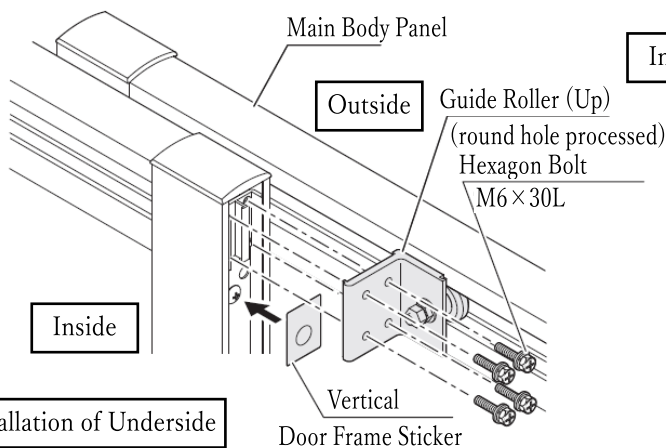
Hexagon Bolt
After completion of adjustment, firmly fix all hexagonal bolts on all wheels.



3 Installation and Adjustment of the Guide Roller

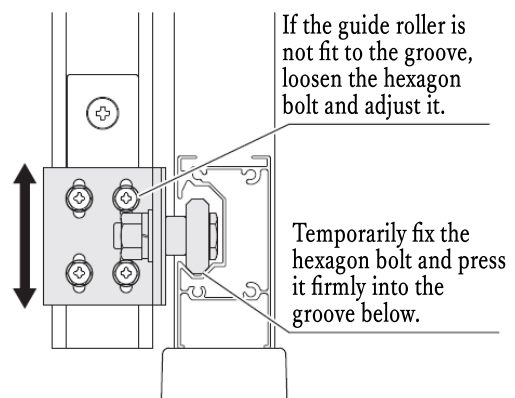
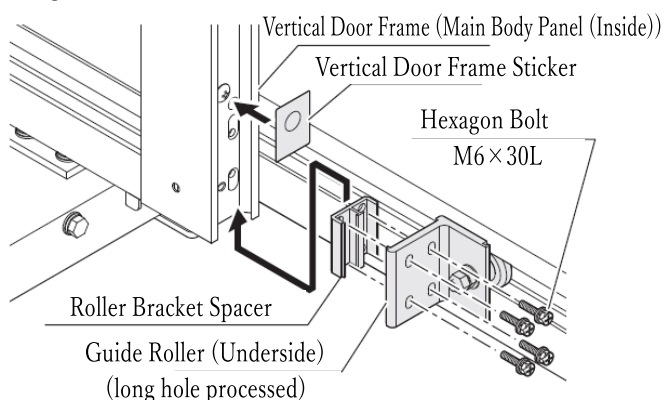
Installation of Upper Side

1. Put vertical door frame sticker on the vertical door frame.
2. Install guide roller (upper side) to vertical door frame.



Installation of Underside

3. Put vertical door frame sticker on the vertical door frame.
4. Insert roller bracket spacer to vertical door frame from the groove of underside of the vertical door frame.
5. Install guide roller (underside).

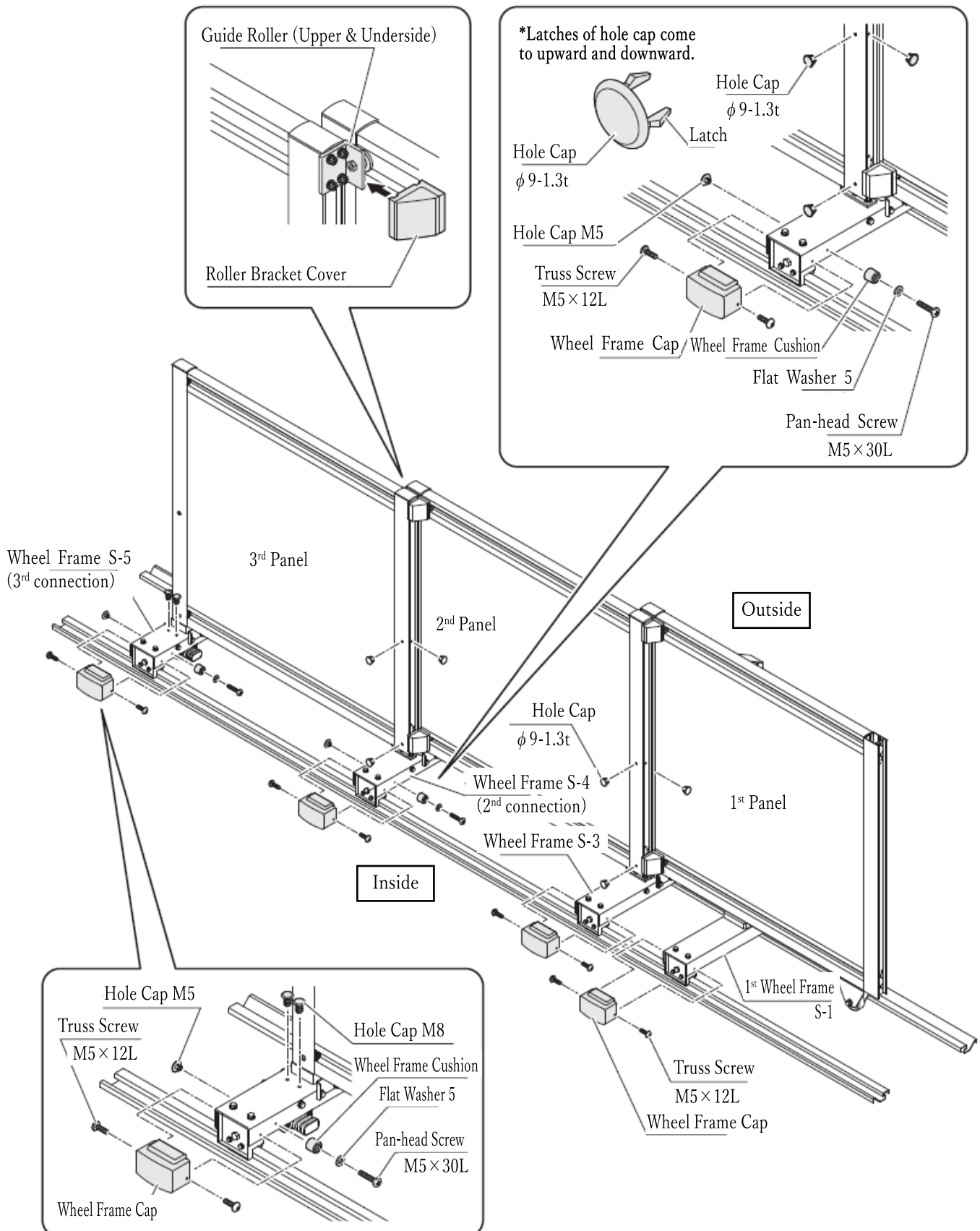


4 Installation of Main Body Panel (3rd Subsequence~)

If the size of the NR has more than 3 connections of main body panel, follow the same procedure of **2** → **3** .

5 Installation of Wheel Frame Cap, Cushion, Roller Bracket Cover, and Hole Cap

1. Install wheel frame cap, wheel frame cushion, roller bracket cover, hole cap M5, M8, $\phi 9-1.3t$.



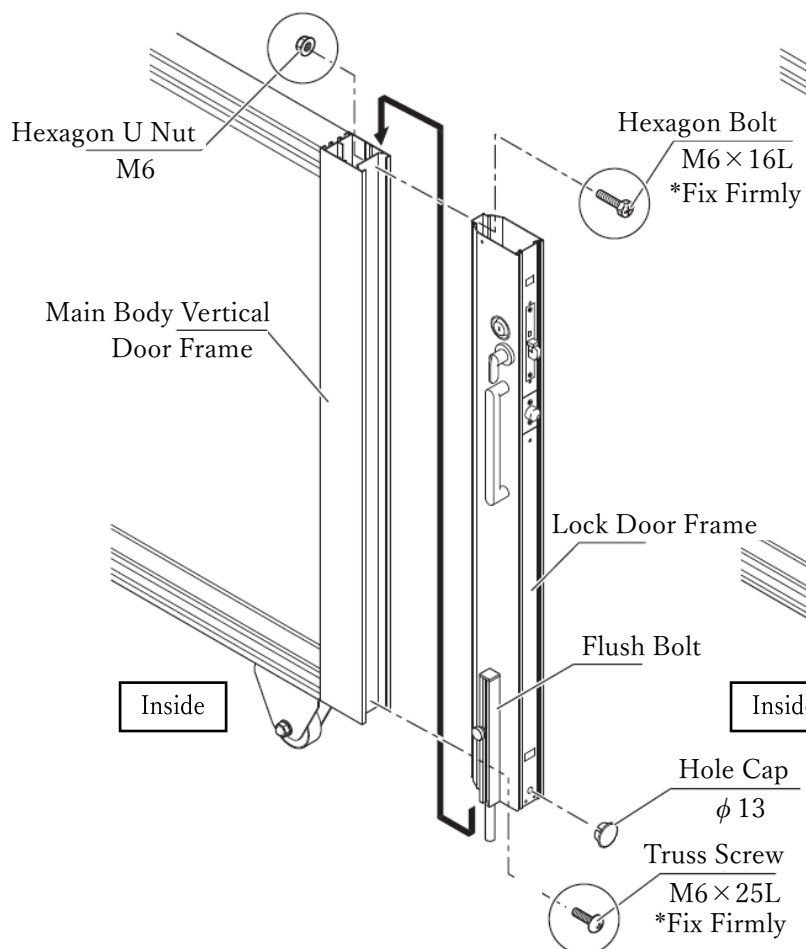
6 Installation of Lock Door Frame

1. Install lock door frame to main body panel's vertical door frame.

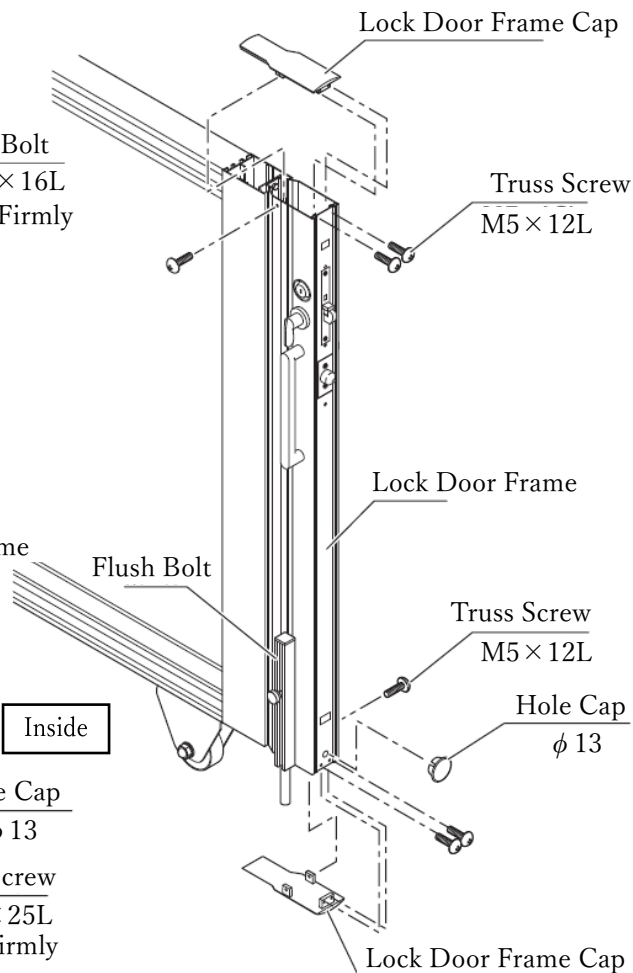
*Fix it with hexagon bolt(M6×16L) and hexagon nut (M6) for upper side, and truss screw(M6×25L) for underside.

2. Install lock door frame cap and hole cap.

■ Installation of Lock Door Frame



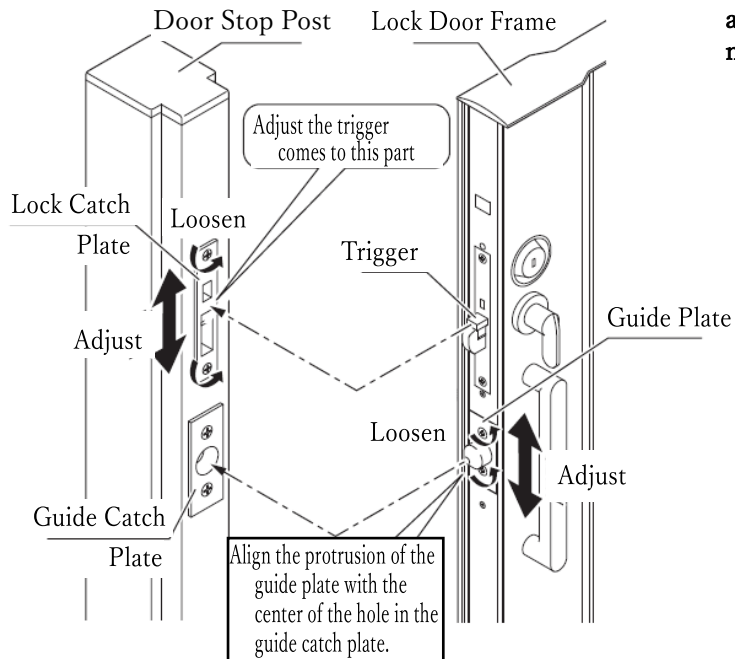
■ Installation of Lock Door Frame Cap



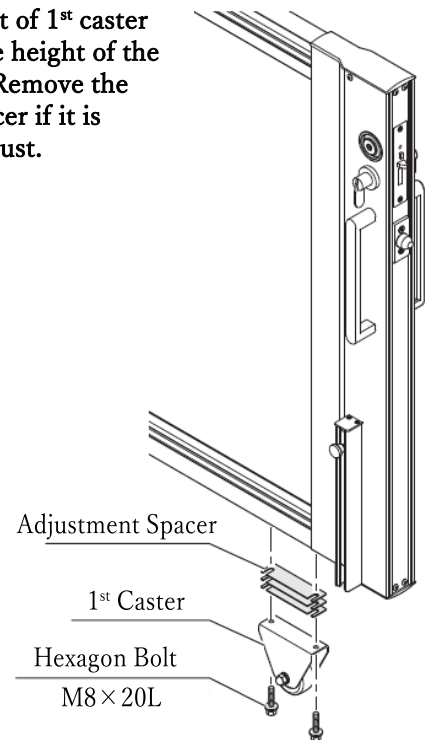
*Firmly fix the hexagon bolts and truss screws.

7 Adjustment of Lock Catch Plate, Guide Plate, & 1st Caster

1. Adjust the height of lock catch plate and guide plate.



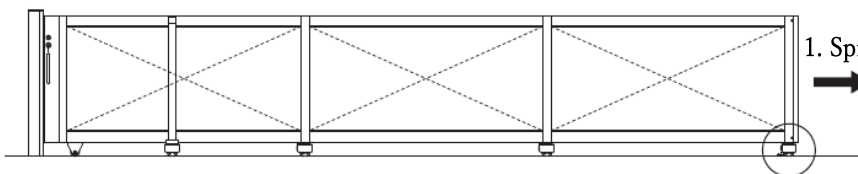
2. Adjust the height of 1st caster according to the height of the concrete floor. Remove the adjustment spacer if it is necessary to adjust.



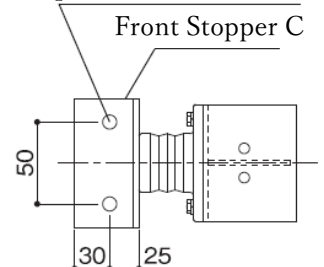
8 Installation and Adjustment of Front Stopper C

1. Spread the gate while locking it with door stop post.

2. Place the front stopper C in the position shown in the drawing below and mark the position of anchor.

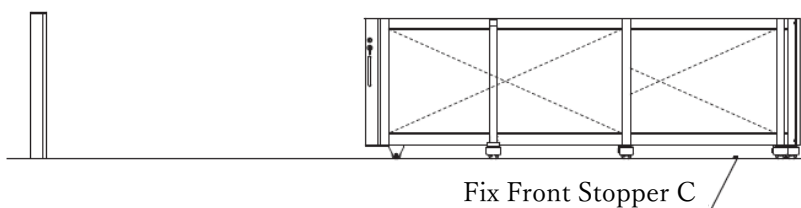
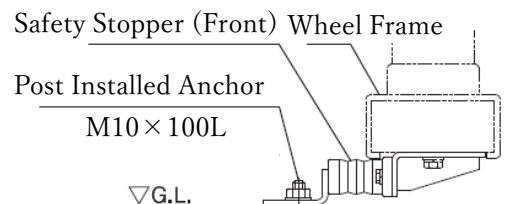


2. Mark the position of the anchor.



3. Unlock the gate.

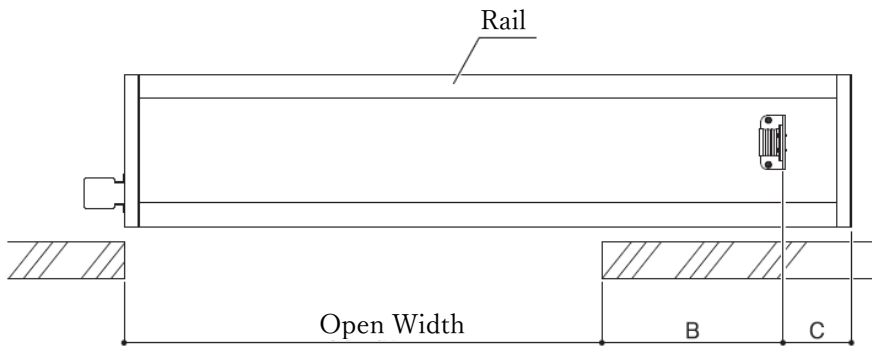
4. Drill holes for the anchors. Then fix the front stopper C with post installed anchor (M10 x 100L). At this time, the safety cushion (front) will be on the storage side of the front stopper C.



*Base Hole Size
= ϕ 10.5, depth
70mm or more.

9 Installation of Safety Cushion B

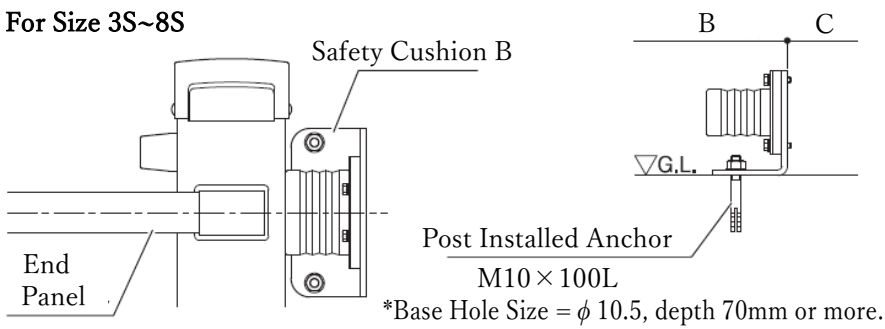
1. Drill holes for the anchor with the dimension written in the table, and fix the safety cushion B with post installed anchor(M10×100L)



(mm)

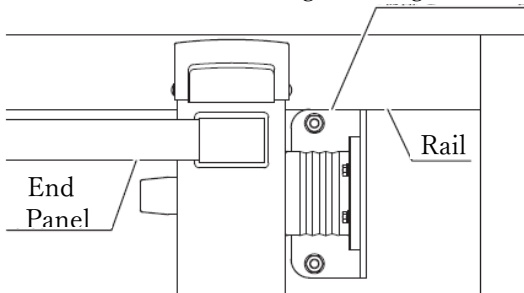
Size	B	C
3S	2083	417
35S	2610	90
4S		
45S	2293	407
5S		
55S	2738	162
6S		
65S	2938	
7S		
75S		
8S	2900	
85S		
9S	3100	200
95S		
10S		
105S	3600	
11S		
115S	3548	152
12S		

For Size 3S~8S



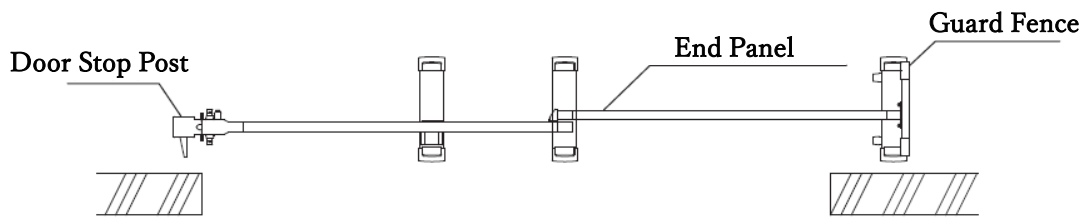
For Size 85S~12S

Align the edge of the safety cushion B to the rail.



10 Installation of Guard Fence

1. Install the guard fence to the end panel .

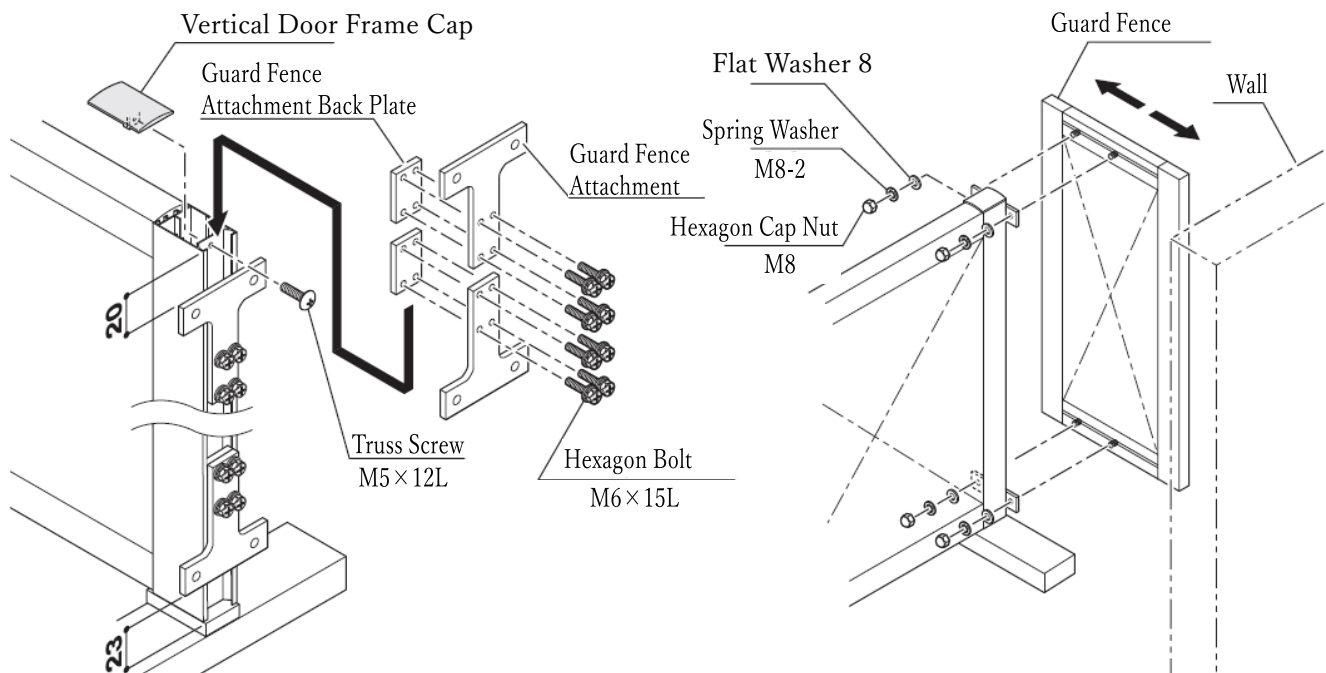


2. Insert the guard fence attachment back plate to the vertical door frame's groove.

3. Attach the vertical door frame cap.

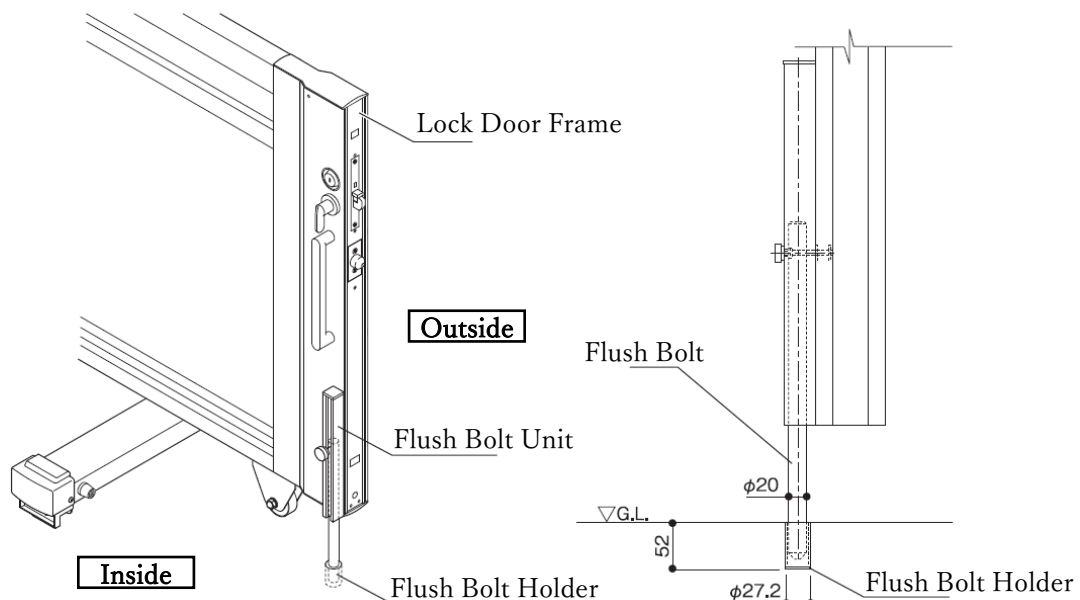
4. Fix the guard fence attachment to the position drawn below.

5. To not to the space between guard fence and wall are widely open, adjust the position of guard fence.



11 Installation of Flush Bolt

1. Bury flush bolt holder after confirmation of the flush bolt's position when fully closed and opened.



12

Check Items After Compilation of Installation

Check Item	Solution
Is it possible to lock and unlock with a key?	If the key is difficult to turn or the hook is stuck and difficult to remove, adjust the height of the lock catch plate and lock front plate. (See 7)Also, please record the key number as it will be necessary to reorder if you lose it.
Is the safety cushion (rear) B installed in the correct position?	When the door is fully open, make sure that the wheel frame (End) touches the safety cushion (rear) B. (See 9)
Is the safety cushion (front) installed in the correct position?	When the door is fully closed, make sure that the safety cushion's rubber is not crushed. (See 8)
Are the fall prevention plates installed in the correct position?	Make sure the fall prevention plate does not come into contact with the rail when opening or closing. Also, retighten the fall prevention plate mounting bolts (Hexagon Bolt). (See 2)
Are any screws and bolts loose or forgotten to be installed?	After completing all installation, check that all screws and bolts are securely fastened.



N1, N2 (H16/18), N3, N4, &NL

Instruction Manual

●Caution

Thank you very much for purchasing our product.

Please read this instruction manual carefully before installation to use the product for a long time.

Improper handling of aluminum products during installation may cause abnormal corrosion, resulting in unexpected troubles, please pay attention to the following points.

1. Please confirm that the product is suit for the construction place's weather conditions (wind, snow, etc.).
2. To prevent damage, please do not construct this product where the snow slide directly on the product.
3. Avoid installation of the product in areas where strong winds blow, especially on cliff tops, on the roof top, or on the pathway of the wind.
4. Avoid installation of the product at places with large vertical difference such as edge. In windy areas, install the product not to be fluttered by wind. This product should be installed only on the ground.
5. The foundation drawing indicates the depth of embedding of the product. Pay sufficient attention to the amount (volume) of the foundation concrete when embedding the product in a weak ground. When the product is to be used in cold districts where frost heave is likely to occur, place foundation to the frost heave line or lower.
6. Using sea sand for making mortar may cause corrosion due to its high salt content. Please avoid use of sea sand or wash it thoroughly before using it for mortal.
7. Adhesive bonds for mortar and concrete may cause corrosion, therefore, avoid using them or choose the adhesive bonds which do not have calcium chlorides, chlorine compounds, or sodium silicate.
8. Make it sure not to attach mortal or concrete extract on the surface and inside of the aluminum products during construction. Those extract are strong alkaline and may cause uneven color or corrosion.
9. When using bonds or chemicals which may occur the corrosion during the construction work, avoid contact to the aluminum products.

10. Please check the screws again that they are tighten up enough after completion of the installation work.
10. Avoid contact of aluminum products with dissimilar metals such as copper plate and lath. If their contact is inevitable, cover the surface with a plastic tape or insulate it with paint, etc.
11. Do not modify or remodel the product.
12. Please put items or equipment in order, and ensure the security especially collapse and falling while working in a high place and intensity of illumination by light in construction site.
13. Please make sure the security by each other and check the operator's health and implement the health management.

Packing List

■ N1, N2 H16/18

H	CODE		Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S	125S	13S	135S	14S	145S	15S	
	NR1	NR2																											
H16	SR-K37	SR-K65	SR 1stPanel 1.5m-H16 (R)/(L)	1																									
	SR-K45	SR-K73																											
	SR-K39	SR-K67	SR 1stPanel 2.0m-H16 (R)/(L)		1	1																							
	SR-K47	SR-K75																											
	SR-K41	SR-K69	SR 1stPanel 2.5m-H16 (R)/(L)				1	1			1	1	1				1	1					1						
	SR-K49	SR-K77																											
	SR-K43	SR-K71	SR 1stPanel 3.0m-H16 (R)/(L)						1	1					1	1	1			1	1	1	1		1	1	1	1	
	SR-K51	SR-K79																											
	SR-K53	SR-K81	SR Panel 1.5M-H16	1	1																								
	SR-K56	SR-K83	SR Panel 2.0M-H16				1	1				2	1					1											
	SR-K59	SR-K85	SR Panel 2.5M-H16					1	1				1	2	2	1		2	3	3	2	1		4	4	3	2	1	
	SR-K62	SR-K87	SR Panel 3.0M-H16							1						1	2				1	2	3			1	2	3	4
	SR-K164		Lock Door Frame H16 (R)/ (L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K171																												
	SR-K195		Lock Door Stop Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K206		Guard Fence H16 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SR-K217		Vertical Door Frame Cover H16	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	
SR-K222		SR Wheel Frame Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K226		End Cover H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
H18	SR-K38	SR-K66	SR 1stPanel 1.5m-H18 (R)/(L)	1																									
	SR-K46	SR-K74																											
	SR-K40	SR-K68	SR 1stPanel 2.0m-H18 (R)/(L)		1	1																							
	SR-K48	SR-K76																											
	SR-K42	SR-K70	SR 1stPanel 2.5m-H18 (R)/(L)				1	1			1	1	1				1	1					1						
	SR-K50	SR-K78																											
	SR-K44	SR-K72	SR 1stPanel 3.0m-H18 (R)/(L)						1	1				1	1	1			1	1	1	1		1	1	1	1	1	
	SR-K52	SR-K80																											
	SR-K54	SR-K82	SR Panel 1.5M-H18	1	1																								
	SR-K57	SR-K84	SR Panel 2.0M-H18				1	1				2	1					1											
	SR-K60	SR-K86	SR Panel 2.5M-H18						1	1			1	2	2	1		2	3	3	2	1		4	4	3	2	1	
	SR-K63	SR-K88	SR Panel 3.0M-H18							1						1	2				1	2	3			1	2	3	4
	SR-K165		Lock Door Frame H18 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K172																												
	SR-K196		Lock Door Stop Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K207		Guard Fence H18 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K218		Vertical Door Frame Cover H18	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4	4	
SR-K223		SR Wheel Frame Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
SR-K227		End Cover H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Common Package	SR-K145		1st Wheel Frame B-1 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K147		Wheel Frame B-2 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K148		Wheel Frame B-3 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K149		Wheel Frame B-4 (Width 600)								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K150		Wheel Frame B-5 (Width 600)														1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K151		Wheel Frame B-6 (Width 600)																					1	1	1	1	1	
	SR-K241		1st Caster Parts Box 2 Connections (Width 600)	1	1	1	1	1	1	1																			
	SR-K242		1st Caster Parts Box 3 Connections (Width 600)									1	1	1	1	1	1												
	SR-K243		1st Caster Parts Box 4 Connections (Width 600)															1	1	1	1	1	1						
	SR-K244		1st Caster Parts Box 5 Connections (Width 600)																						1	1	1	1	
	FRB14		Rail Parts Set 2 Connections	1																									
	FRB1		Rail Parts Set 3 Connections		1	1	1																						
	FRB2		Rail Parts Set 4 Connections					1	1		1																		
	FRB3		Rail Parts Set 5 Connections								1		1	1															
	FRB4		Rail Parts Set 6 Connections											1	1	1	1	1	1										
	FRB5		Rail Parts Set 7 Connections																		1	1	1	1					
FRB7		Rail Parts Set 8 Connections																											
SR-K270		NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Stainless Steel Flat Rail	FRS60-174-1		Stainless Steel Flat Rail 60-174 (1)		1			1	1	1			1	1		1	1			1		1	1			1		1	
	FRS60-174-2		Stainless Steel Flat Rail 60-174 (2)			1	1		1		2		2	1	2	2	1	1	1		1	1			4	3	3	2	2
	FRS60-224-1		Stainless Steel Flat Rail 60-224 (1)				1	1	1					1		1	1				1				1		1	1	
	FRS60-224-2		Stainless Steel Flat Rail 60-224 (2)	1			1		1		2		1		1	1	1	1	2	3	2	2	3	3		1	1	2	2

■N3, N4 H12/14/16/18 *(R)=Right Side Close (L)=Left Side Close

H	CODE		Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S
	NR3	NR4																				
H12	SR-K89	SR-K113	SR 1stPanel 1.5m-H12 (R)/(L)	1			1															
	SR-K97	SR-K121																				
	SR-K93	SR-K117	SR 1stPanel 2.0m-H12 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K101	SR-K125																				
	SR-K105	SR-K129	SR Panel 1.5M-H12	1	1		2	2	1		3	2	1		3	2	1		3	2	1	
	SR-K109	SR-K133	SR Panel 2.0M-H12			1			1	2		1	2	3	1	2	3	4	2	3	4	5
	SR-K162		Lock Door Frame H12 (R)/ (L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K169																					
	SR-K193		Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K204		Guard Fence H12 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	SR-K209		Guard Fence H12 (Width 600)W																1	1	1	1
	SR-K215		Vertical Door Frame Cover H12	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
	SR-K220		SR Wheel Frame Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224		End Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	SR-K90	SR-K66	SR 1stPanel 1.5m-H18 (R)/(L)	1			1															
	SR-K98	SR-K74																				
	SR-K94	SR-K68	SR 1stPanel 2.0m-H18 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K102	SR-K76																				
	SR-K106	SR-K70	SR Panel 1.5M-H14 (R)/(L)	1	1		2	2	1		3	2	1		3	2	1		3	2	1	
	SR-K110	SR-K78	SR Panel 2.0M-H14 (R)/(L)			1			1	2		1	2	3	1	2	3	4	2	3	4	5
	SR-K163		Lock Door Frame H14 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K170																					
	SR-K194		Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K205		Guard Fence H14 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	SR-K210		Guard Fence H14 (Width 600)W																1	1	1	1
	SR-K216		Vertical Door Frame Cover H14	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
	SR-K221		SR Wheel Frame Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K225		End Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H16	SR-K91	SR-K115	SR 1stPanel 1.5m-H16 (R)/(L)	1			1															
	SR-K99	SR-K123																				
	SR-K95	SR-K119	SR 1stPanel 2.0m-H16 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K103	SR-K127																				
	SR-K107	SR-K131	SR Panel 1.5M-H16	1	1		2	2	1		3	2	1		3	2	1		3	2	1	
	SR-K111	SR-K135	SR Panel 2.0M-H16			1			1	2		1	2	3	1	2	3	4	2	3	4	5
	SR-K164		Lock Door Frame H16 (R)/ (L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K171																					
	SR-K195		Lock Door Stop Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K206		Guard Fence H16 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	SR-K211		Guard Fence H16 (Width 600)W																1	1	1	1
	SR-K217		Vertical Door Frame Cover H16	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
	SR-K222		SR Wheel Frame Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K226		End Cover H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H18	SR-K92	SR-K66	SR 1stPanel 1.5m-H18 (R)/(L)	1			1															
	SR-K100	SR-K74																				
	SR-K96	SR-K68	SR 1stPanel 2.0m-H18 (R)/(L)		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K104	SR-K76																				
	SR-K108	SR-K70	SR Panel 1.5M-H18 (R)/(L)	1	1		2	2	1		3	2	1		3	2	1		3	2	1	
	SR-K112	SR-K78	SR Panel 2.0M-H18 (R)/(L)			1			1	2		1	2	3	1	2	3	4	2	3	4	5
	SR-K165		Lock Door Frame H18 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K172																					
	SR-K196		Lock Door Stop Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K207		Guard Fence H18 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	SR-K212		Guard Fence H18 (Width 600)W																1	1	1	1
	SR-K218		Vertical Door Frame Cover H18	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
	SR-K223		SR Wheel Frame Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K227		End Cover H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Package	SR-K152		1st Wheel Frame B-1K (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K154		Wheel Frame B-2 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K155		Wheel Frame B-3 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K156		Wheel Frame B-4 (Width 600)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K157		Wheel Frame B-5 (Width 600)							1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K158		Wheel Frame B-6 (Width 600)												1	1	1	1	1	1	1	1
	SR-K159		Wheel Frame B-7 (Width 600)																1	1	1	1
	SR-K241		1st Caster Parts Box 2 Connections (Width 600)	1	1	1																
	SR-K242		1st Caster Parts Box 3 Connections (Width 600)				1	1	1	1												
	SR-K243		1st Caster Parts Box 4 Connections (Width 600)								1	1	1	1								
	SR-K244		1st Caster Parts Box 5 Connections (Width 600)												1	1	1	1				
	SR-K245		1st Caster Parts Box 6 Connections (Width 600)																1	1	1	1
	FRB14		Rail Parts Set 2 Connections	1																		
	FRB1		Rail Parts Set 3 Connections		1	1	1	1														
	FRB2		Rail Parts Set 4 Connections						1	1	1	1										
	FRB3		Rail Parts Set 5 Connections									1	1	1	1	1						
	FRB4		Rail Parts Set 6 Connections														1	1	1	1		
	FRB5		Rail Parts Set 7 Connections																		1	1
Stainless Steel Flat Rail	SR-K270		NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	FRS60-174-1		Stainless Steel Flat Rail 60-174 (1)		1				1		1		1		1		1		1			
	FRS60-174-2		Stainless Steel Flat Rail 60-174 (2)		1	1	1		1	1		1	1				1	1			2	1
	FRS60-224-1		Stainless Steel Flat Rail 60-224 (1)			1	1	1	1		1		1			1	1		1		1	
	FRS60-224-2		Stainless Steel Flat Rail 60-224 (2)	1					1		1	2	1	1	2	2	1	2	2	3	1	2

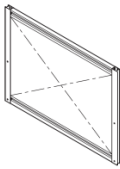
■NL H12/14 *(R)=Right Side Close (L)=Left Side Close

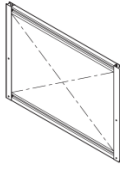
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H12	NRL																										
	NRL-K1	NRL 1stPanel 1.5m-H12 (R)/(L)	1																								
	NRL-K5																										
	NRL-K13	NRL 1stPanel 2.0m-H12 (R)/(L)		1	1																						
	NRL-K17																										
	NRL-K25	NRL 1stPanel 2.5m-H12 (R)/(L)				1	1			1	1	1				1	1					1					
	NRL-K29																										
	NRL-K37	NRL 1stPanel 3.0m-H12 (R)/(L)						1	1				1	1	1			1	1	1	1		1	1	1	1	1
	NRL-K41																										
	NRL-K9	NRL Panel 1.5M-H12	1	1						2	1					1											
	NRL-K21	NRL Panel 2.0M-H12			1	1																					
	NRL-K33	NRL Panel 2.5M-H12					1	1			1	2	2	1		2	3	3		1	2	3		4	3	2	1
	NRL-K45	NRL Panel 3.0M-H12							1					1	2									1	2	3	4
	SR-K162																										
	SR-K169	Lock Door Frame H12 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K193	Lock Door Stop Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K204	Guard Fence H12 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K215	Vertical Door Frame Cover H12	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4
	NRL-K49	NRL Wheel Frame Post H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K224	End Cover H12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H14	NRL-K2																										
	NRL-K6	NRL 1stPanel 1.5m-H14 (R)/(L)	1																								
	NRL-K14																										
	NRL-K18	NRL 1stPanel 2.0m-H14 (R)/(L)		1	1																						
	NRL-K26																										
	NRL-K30	NRL 1stPanel 2.5m-H14 (R)/(L)				1	1				1	1	1				1	1					1				
	NRL-K38																										
	NRL-K42	NRL 1stPanel 3.0m-H14 (R)/(L)						1	1					1	1	1		1	1	1	1		1	1	1	1	1
	NRL-K10	NRL Panel 1.5M-H14	1	1																							
	NRL-K22	NRL Panel 2.0M-H14			1	1				2	1						1										
	NRL-K34	NRL Panel 2.5M-H14					1	1			1	2	2	1		2	3	3					4	4	3	2	1
	NRL-K46	NRL Panel 3.0M-H14							1						1	2			1	2	3			1	2	3	4
	SR-K163																										
	SR-K170	Lock Door Frame H14 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K194	Lock Door Stop Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K205	Guard Fence H14 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K216	Vertical Door Frame Cover H14	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4	4
	NRL-K50	NRL Wheel Frame Post H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K225	End Cover H14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Common Package	SR-K145	1st Wheel Frame B-1 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K147	Wheel Frame B-2 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K148	Wheel Frame B-3 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K149	Wheel Frame B-4 (Width 600)								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K150	Wheel Frame B-5 (Width 600)																									
	SR-K151	Wheel Frame B-6 (Width 600)																									
	SR-K241	1st Caster Parts Box 2 Connections (Width 600)	1	1	1	1	1	1	1														1	1	1	1	1
	SR-K242	1st Caster Parts Box 3 Connections (Width 600)								1	1	1	1	1	1												
	SR-K243	1st Caster Parts Box 4 Connections (Width 600)															1	1	1	1	1	1					
	SR-K244	1st Caster Parts Box 5 Connections (Width 600)																									
	FRB14	Rail Parts Set 2 Connections	1																				1	1	1	1	1
	FRB1	Rail Parts Set 3 Connections		1	1	1																					
	FRB2	Rail Parts Set 4 Connections					1	1		1																	
	FRB3	Rail Parts Set 5 Connections							1		1	1															
	FRB4	Rail Parts Set 6 Connections											1	1	1	1	1	1									
	FRB5	Rail Parts Set 7 Connections																	1	1	1	1					
	FRB7	Rail Parts Set 8 Connections																		1	1	1	1	1	1	1	1
	SR-K270	NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stainless Steel Flat Rail	FR560-174-1	Stainless Steel Flat Rail 60-174 (1)		1			1	1	1				1	1	1	1			1		1	1		1	1	1	1
	FR560-174-2	Stainless Steel Flat Rail 60-174 (2)		1	1		1		2		2	1	2	2	1	1	1		1	1			4	3	3	2	2
	FR560-224-1	Stainless Steel Flat Rail 60-224 (1)			1	1	1	1			1		1	1	1	1				1				1	1	1	1
	FR560-224-2	Stainless Steel Flat Rail 60-224 (2)	1			1				2		1		1	1	1	2	3	2	2	3	3		1	1	2	2

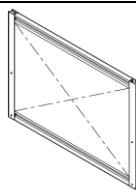
■NL H16/18 *(R)=Right Side Close (L)=Left Side Close

H	CODE	Packing Name	3S	35S	4S	45S	5S	55S	6S	65S	7S	75S	8S	85S	9S	95S	10S	105S	11S	115S	12S	125S	13S	135S	14S	145S	15S	
H16	NRL																											
	NRL-K-3	NRL 1stPanel 1.5m-H16 (R)/(L)	1																									
	NRL-K7																											
	NRL-K15	NRL 1stPanel 2.0m-H16 (R)/(L)		1	1																							
	NRL-K19																											
	NRL-K27	NRL 1stPanel 2.5m-H16 (R)/(L)					1	1			1	1	1				1	1				1						
	NRL-K31																											
	NRL-K39	NRL 1stPanel 3.0m-H16 (R)/(L)							1	1				1	1	1			1	1	1	1		1	1	1	1	
	NRL-K43																											
	NRL-K11	NRL Panel 1.5M-H16	1	1																								
	NRL-K23	NRL Panel 2.0M-H16			1	1					2	1						1										
	NRL-K35	NRL Panel 2.5M-H16						1	1			1	2	2	1		2	3	3	2	1		4	4	3	2	1	
	NRL-K47	NRL Panel 3.0M-H16								1						1	2			1	2	3			1	2	3	4
	SR-K164																			1	2	3						
	SR-K171	Lock Door Frame H16 (R)/ (L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SR-K195	Lock Door Stop Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K206	Guard Fence H16 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K217	Vertical Door Frame Cover H16	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	
NRL-K51	NRL Wheel Frame Post H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K226	End Cover H16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
H18	NRL-K4																											
	NRL-K8	NRL 1stPanel 1.5m-H18 (R)/(L)	1																									
	NRL-K16																											
	NRL-K20	NRL 1stPanel 2.0m-H18 (R)/(L)		1	1																							
	NRL-K28																											
	NRL-K32	NRL 1stPanel 2.5m-H18 (R)/(L)					1	1			1	1	1				1	1				1						
	NRL-K40																											
	NRL-K44	NRL 1stPanel 3.0m-H18 (R)/(L)							1	1					1	1	1							1	1	1	1	1
	NRL-K12	NRL Panel 1.5M-H18	1	1																								
	NRL-K24	NRL Panel 2.0M-H18			1	1					2	1						1										
	NRL-K36	NRL Panel 2.5M-H18						1	1				1	2	2	1		2	3	3	2	1		4	4	3	2	1
	NRL-K48	NRL Panel 3.0M-H18								1						1	2				1	2	3		1	2	3	4
	SR-K165																											
	SR-K172	Lock Door Frame H18 (R)/(L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SR-K196	Lock Door Stop Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SR-K207	Guard Fence H18 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K218	Vertical Door Frame Cover H18	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	
NRL-K52	NRL Wheel Frame Post H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SR-K227	End Cover H18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Common Package	SR-K145	1st Wheel Frame B-1 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K147	Wheel Frame B-2 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K148	Wheel Frame B-3 (Width 600)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K149	Wheel Frame B-4 (Width 600)							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	SR-K150	Wheel Frame B-5 (Width 600)															1	1	1	1	1	1	1	1	1	1	1	
	SR-K151	Wheel Frame B-6 (Width 600)																										
	SR-K241	1st Caster Parts Box 2 Connections (Width 600)	1	1	1	1	1	1	1	1																		
	SR-K242	1st Caster Parts Box 3 Connections (Width 600)									1	1	1	1	1	1												
	SR-K243	1st Caster Parts Box 4 Connections (Width 600)																1	1	1	1	1	1					
	SR-K244	1st Caster Parts Box 5 Connections (Width 600)																						1	1	1	1	1
	FRB14	Rail Parts Set 2 Connections	1																									
	FRB1	Rail Parts Set 3 Connections		1	1	1	1																					
	FRB2	Rail Parts Set 4 Connections						1	1		1																	
	FRB3	Rail Parts Set 5 Connections								1		1																
	FRB4	Rail Parts Set 6 Connections												1	1	1	1	1	1									
	FRB5	Rail Parts Set 7 Connections																										
	FRB7	Rail Parts Set 8 Connections																										
	Stainless Steel Flat Rail	SR-K270	NR Flat Rail Burying Parts Box S Width 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		FRS60-174-1	Stainless Steel Flat Rail 60-174 (1)		1				1	1	1			1	1		1	1				1	1		1		1	
		FRS60-174-2	Stainless Steel Flat Rail 60-174 (2)		1	1					2		2	1	2	2	1	1	1			1	1		4	3	3	2
FRS60-224-1		Stainless Steel Flat Rail 60-224 (1)			1	1	1	1				1		1		1	1				1			1		1	1	
FRS60-224-2		Stainless Steel Flat Rail 60-224 (2)	1				1	1			2		1		1	1	1	2	3	2	2	3	3		1	1	2	2

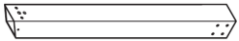
Parts List

N1/N2 1st Panel H16 Main Body Panel H16		Code/Packing Name												
		NR1	SR-K37	SR-K45	SR-K39	SR-K47	SR-K41	SR-K49	SR-K43	SR-K51	SR-K53	SR-K56	SR-K59	SR-K62
		NR2	SR-K65	SR-K73	SR-K67	SR-K75	SR-K69	SR-K77	SR-K71	SR-K79	SR-K81	SR-K83	SR-K85	SR-K87
		SR 1st Panel 1.5M-H16(R)	SR 1st Panel 1.5M-H16(L)	SR 1st Panel 2.0M-H16(R)	SR 1st Panel 2.0M-H16(L)	SR 1st Panel 2.5M-H16(R)	SR 1st Panel 2.5M-H16(L)	SR 1st Panel 3.0M-H16(R)	SR 1st Panel 3.0M-H16 (L)	SR Main Body Panel 1.5M-H16	SR Main Body Panel 2.0M-H16	SR Main Body Panel 2.5M-H16	SR Main Body Panel 3.0M-H16	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
SR 1st Panel 1.5M-H16 (R)		1												
SR 1st Panel 1.5M-H16 (L)			1											
SR 1st Panel 2.0M-H16 (R)				1										
SR 1st Panel 2.0M-H16 (L)					1									
SR 1st Panel 2.5M-H16 (R)						1								
SR 1st Panel 2.5M-H16 (L)							1							
SR 1st Panel 3.0M-H16 (R)									1					
SR 1st Panel 3.0M-H16 (L)										1				
SR Pnael 1.5M-H16											1			
SR Panel 2.0M-H16												1		
SR Panel 2.5M-H16													1	
SR Panel 3.0M-H16														

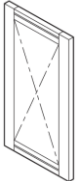
N1/N2 1st Panel H18 Main Body Panel H18		Code/Packing Name												
		NR1	SR-K38	SR-K46	SR-K40	SR-K48	SR-K42	SR-K50	SR-K44	SR-K52	SR-K54	SR-K57	SR-K60	SR-K63
		NR2	SR-K66	SR-K74	SR-K68	SR-K76	SR-K70	SR-K78	SR-K72	SR-K80	SR-K82	SR-K84	SR-K86	SR-K88
		SR 1st Panel 1.5M-H18(R)	SR 1st Panel 1.5M-H18(L)	SR 1st Panel 2.0M-H18(R)	SR 1st Panel 2.0M-H18(L)	SR 1st Panel 2.5M-H18(R)	SR 1st Panel 2.5M-H18(L)	SR 1st Panel 3.0M-H18(R)	SR 1st Panel 3.0M-H18 (L)	SR Main Body Panel 1.5M-H18	SR Main Body Panel 2.0M-H18	SR Main Body Panel 2.5M-H18	SR Main Body Panel 3.0M-H18	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
SR 1st Panel 1.5M-H18 (R)		1												
SR 1st Panel 1.5M-H18 (L)			1											
SR 1st Panel 2.0M-H18 (R)				1										
SR 1st Panel 2.0M-H18 (L)					1									
SR 1st Panel 2.5M-H18 (R)						1								
SR 1st Panel 2.5M-H18 (L)							1							
SR 1st Panel 3.0M-H18 (R)								1						
SR 1st Panel 3.0M-H18 (L)									1					
SR Pnael 1.5M-H18										1				
SR Panel 2.0M-H18											1			
SR Panel 2.5M-H18												1		
SR Panel 3.0M-H18													1	

N3/N4 1st Panel H12, 14,16,18 Main Body Panel H12, 14,16,18		Code/Packing Name						
		NR3 H12	SR-K89	SR-K97	SR-K93	SR-K101	SR-K105	SR-K109
		NR3 H14	SR-K90	SR-K98	SR-K94	SR-K102	SR-K106	SR-K110
		NR3 H16	SR-K91	SR-K99	SR-K95	SR-K103	SR-K107	SR-K111
		NR3 H18	SR-K92	SR-K100	SR-K96	SR-K104	SR-K108	SR-K112
		NR4 H12	SR-K113	SR-K121	SR-K117	SR-K125	SR-K129	SR-K133
		NR4 H14	SR-K114	SR-K122	SR-K118	SR-K126	SR-K130	SR-K134
		NR4 H16	SR-K115	SR-K123	SR-K119	SR-K127	SR-K131	SR-K135
		NR4 H18	SR-K116	SR-K124	SR-K120	SR-K128	SR-K132	SR-K136
		SR 1st Panel 1.5M-(R)	SR 1st Panel 1.5M-(L)	SR 1st Panel 2.0M-(R)	SR 1st Panel 2.0M-(L)	SR Main Body Panel 1.5M-	SR Main Body Panel 3.0M-	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
SR 1st Panel 1.5M- (R)		1						
SR 1st Panel 1.5M- (L)			1					
SR 1st Panel 2.0M- (R)				1				
SR 1st Panel 2.0M- (L)					1			
SR Pnael 1.5M-						1		
SR Panel 2.0M-							1	

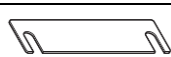
NL 1st Panel H12, 14,16,18 Main Body Panel H12, 14,16,18		Code/Packing Name												
		H12	NRL-K1	NRL-K5	NRL-K13	NRL-K17	NRL-K25	NRL-K29	NRL-K37	NRL-K41	NRL-K9	NRL-K21	NRL-K33	NRL-K45
		H14	NRL-K2	NRL-K6	NRL-K14	NRL-K18	NRL-K26	NRL-K30	NRL-K38	NRL-K42	NRL-K10	NRL-K22	NRL-K34	NRL-K46
		H16	NRL-K3	NRL-K7	NRL-K15	NRL-K19	NRL-K27	NRL-K31	NRL-K39	NRL-K43	NRL-K11	NRL-K23	NRL-K35	NRL-K47
		H18	NRL-K4	NRL-K8	NRL-K16	NRL-K20	NRL-K28	NRL-K32	NRL-K40	NRL-K44	NRL-K12	NRL-K24	NRL-K36	NRL-K48
		NRL 1st Panel 1.5M-(R)	NRL 1st Panel 1.5M-(L)	NRL 1st Panel 2.0M-(R)	NRL 1st Panel 2.0M-(L)	NRL 1st Panel 2.5M-(R)	NRL 1st Panel 2.5M-(L)	NRL 1st Panel 3.0M-(R)	NRL 1st Panel 3.0M-(L)	NRL 1st Panel 1.5M-(R)	NRL 1st Panel 2.0M-(L)	NRL 1st Panel 2.5M-(R)	NRL Main Body Panel 3.0M-	
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	
NRL 1st Panel 1.5M- (R)		1												
NRL 1st Panel 1.5M- (L)			1											
NRL 1st Panel 2.0M- (R)				1										
NRL 1st Panel 2.0M- (L)					1									
NRL 1st Panel 2.5M- (R)						1								
NRL 1st Panel 2.5M- (L)							1							
NRL 1st Panel 3.0M- (R)								1						
NRL 1st Panel 3.0M- (L)									1					
NRL Pnael 1.5M-										1				
NRL Pnael 2.0M-											1			
NRL Pnael 2.5M-												1		
NRL Panel 3.0M-													1	

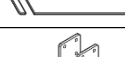
Wheel Frame Post		Code/Packing Name							
		NRL-K220	NRL-K221	NRL-K222	NRL-K223	NRL-K49	NRL-K50	NRL-K51	NRL-K52
		SR Wheel Frame Post H12	SR Wheel Frame Post H14	SR Wheel Frame Post H16	SR Wheel Frame Post H18	NRL Wheel Frame Post H12	NRL Wheel Frame Post H14	NRL Wheel Frame Post H16	NRL Wheel Frame Post H18
		Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
SR Wheel Frame Post H12		1							
SR Wheel Frame Post H14			1						
SR Wheel Frame Post H16				1					
SR Wheel Frame Post H18					1				
SR Wheel Frame Post H12						1			
SR Wheel Frame Post H14							1		
SR Wheel Frame Post H16								1	
SR Wheel Frame Post H18									1
Wheel Frame Post Cap		1	1	1	1	1	1	1	1

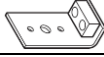
Lock Door Frame		Code/Packing Name							
		SR-K162	SR-K163	SR-K164	SR-K165	SR-K169	SR-K170	SR-K171	SR-K172
		Lock Door Frame H12 (R)	Lock Door Frame H14 (R)	Lock Door Frame H16 (R)	Lock Door Frame H18 (R)	Lock Door Frame H12 (L)	Lock Door Frame H14 (L)	Lock Door Frame H16 (L)	Lock Door Frame H18 (L)
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Lock Door Frame H12 (R)		1							
Lock Door Frame H14 (R)			1						
Lock Door Frame H16 (R)				1					
Lock Door Frame H18 (R)					1				
Lock Door Frame H12 (L)						1			
Lock Door Frame H14 (L)							1		
Lock Door Frame H16 (L)								1	
Lock Door Frame H18 (L)									1

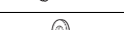
Guard Fence		Code/Packing Name							
		SR-K204	SR-K205	SR-K206	SR-K207	SR-K209	SR-K210	SR-K211	SR-K212
		Guard Fence H12 Width 600	Guard Fence H14 Width 600	Guard Fence H16 Width 600	Guard Fence H18 Width 600	Guard Fence H12 Width 600 W	Guard Fence H14 Width 600 W	Guard Fence H16 Width 600 W	Guard Fence H18 Width 600 W
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Guard Fence H12		1							
Guard Fence H14			1						
Guard Fence H16				1					
Guard Fence H18					1				
Guard Fence H12 W						1			
Guard Fence H14 W							1		
Guard Fence H16 W								1	
Guard Fence H18 W									1

Vertical Door Frame Cover		Code/Packing Name			
		SR-K215	SR-K216	SR-K217	SR-K218
		Guard Fence H12 Width 600	Guard Fence H14 Width 600	Guard Fence H16 Width 600	Guard Fence H18 Width 600 W
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity
Vertical Door Frame Cover H12		1			
Vertical Door Frame Cover H14			1		
Vertical Door Frame Cover H16				1	
Vertical Door Frame Cover H18					1

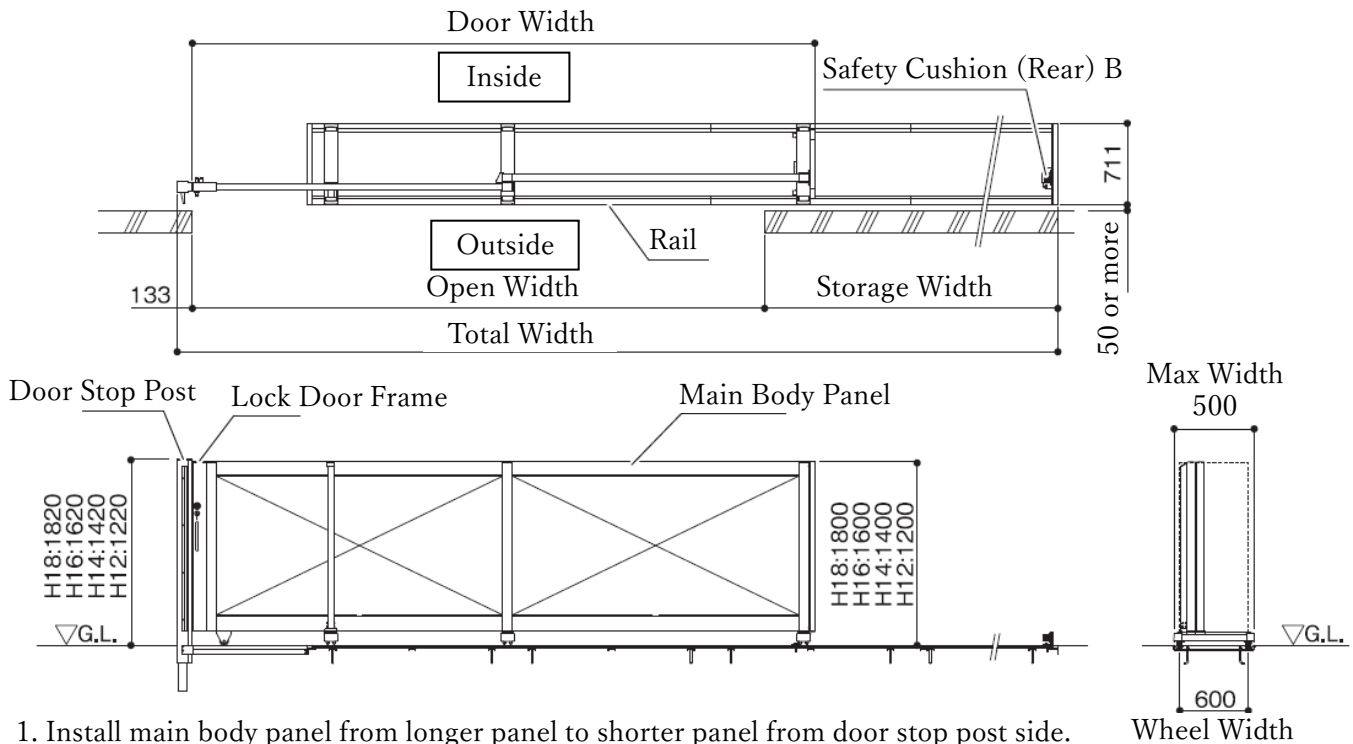
Wheel Frame B		Code/Packing Name					
		SR-K145	SR-K147	SR-K148	SR-K149	SR-K150	SR-K151
		1st Wheel Frame B-1 Width 600	Wheel Frame B-2 Width 600	Wheel Frame B-3 Width 600	Wheel Frame B-4 Width 600	Wheel Frame B-5 Width 600	Wheel Frame B-6 Width 600
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
1st Wheel Frame B-1		1					
Wheel Frame B-2			1				
Wheel Frame B-3				1			
Wheel Frame B-4					1		
Wheel Frame B-5						1	
Wheel Frame B-6							1
Wheel Frame T S		2	2	2	2	2	2
Wheel Frame Cap		2	2	2	2	2	2
1st Caster		1					
1st Caster Attachment		1					
Adjustment Spacer		3					
Wheel Frame Post Connector		1					
Wheel Attachment Bolt Set	See Screw Set Specification	1	1	1	1	1	1

Wheel Frame B-K		Code/Packing Name						
		SR-K152	SR-K154	SR-K155	SR-K156	SR-K157	SR-K158	SR-K159
		1st Wheel Frame B-1K Width 600	Wheel Frame B-2K Width 600	Wheel Frame B-3K Width 600	Wheel Frame B-4K Width 600	Wheel Frame B-5K Width 600	Wheel Frame B-6K Width 600	Wheel Frame B-7K Width 600
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
1st Wheel Frame B-1K		1						
Wheel Frame B-2K			1					
Wheel Frame B-3K				1				
Wheel Frame B-4K					1			
Wheel Frame B-5K						1		
Wheel Frame B-6K							1	
Wheel Frame B-7K								1
Wheel Frame G S		2	2	2	2	2	2	2
Wheel Frame Cap		2	2	2	2	2	2	2
1st Caster		1						
1st Caster Attachment		1						
Adjustment Spacer		3						
Wheel Frame Post Connector		1						
Wheel Attachment Screw Set	See Screw Set Specification	1	1	1	1	1	1	1

Parts Box		Code/Packing Name				
		SR-K241	SR-K242	SR-K243	SR-K244	SR-K245
		1st Caster Parts Box 2 Connections Width 600	1st Caster Parts Box 3 Connections Width 600	1st Caster Parts Box 4 Connections Width 600	1st Caster Parts Box 5 Connections Width 600	1st Caster Parts Box 6 Connections Width 600
Parts Name	Shape	Quantity	Quantity	Quantity	Quantity	Quantity
Guide Roller (Upper Side) Round Hole Processed		1	2	3	4	5
Guide Roller (Underside) Long Hole Processed		1	2	3	4	5
Reinforce Bracket B		2	3	4	5	6
Hook		1	2	3	4	5
Hook Receiver		1	2	3	4	5
Roller Bracket Spacer		2	4	6	8	10
Spacer Back Plate		2	4	6	8	10
Roller Bracket Power		2	4	6	8	10
Wheel Frame Cushion		2	4	6	8	10
Vertical Door Frame Cap		3	5	7	9	11
Top Vertical Door Frame Cap		2	2	2	2	2
Safety Cushion (Front)		1	1	1	1	1
Safety Cushion (Rear) B		1	1	1	1	1
Front Stopper C		1	1	1	1	1
Flush Bolt Holder		2	2	2	2	2
Guard Fence Attachment		2	2	2	2	2
Guard Fence Attachment Back Plate		2	2	2	2	2
Rail Cleaner		1	1	1	1	1
Instruction Manual		1	1	1	1	1
Operating Instruction		1	1	1	1	1
For Customer		1	1	1	1	1
NR 600 Screw Set	See Screw Set Specification	1	1	1	1	1
GF/ Door Frame Anchor Screw Set	See Screw Set Specification	1	1	1	1	1
Width 600 2 Connections Screw Set	See Screw Set Specification	1				
Width 600 3 Connections Screw Set	See Screw Set Specification		1			
Width 600 4 Connections Screw Set	See Screw Set Specification			1		
Width 600 5 Connections Screw Set	See Screw Set Specification				1	
Width 600 6 Connections Screw Set	See Screw Set Specification					1

Screw Set Specification			Code/Packing Name							
			NR 600 Screw Set	GF/ Door Frame/ Anchor Screw Set	Width 600 2 Connections Screw Set	Width 600 3 Connections Screw Set	Width 600 4Connections Screw Set	Width 600 5 Connections Screw Set	Width 600 6 Connections Screw Set	Wheel Frame Bolt Set
Parts Name	Spec	Shape	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
Hexagon Bolt	M8 × 30L		8							
Hexagon Bolt	M8 × 20L		4							
Hexagon Bolt	M8 × 20L With Colour		4		8	12	16	20	24	
Hexagon Bolt	M6 × 30L		2							
Truss Screw	M4 × 10L		2							
Hexagon Bolt	M6 × 15L		2		14	18	22	26	30	
Truss Screw	M6 × 12L		16		10	18	26	34	42	
Truss Screw	M5 × 12L		1		26	33	40	47	54	
Flat Head Screw	M5 × 12L (D=8)		1			2	3	4	5	
Guard Washer A	-		1			1	2	3	4	
Hexagon Bolt	M8 × 25L									4
Hexagon Cap Nut	M8			4						
Flat Washer	8			4						
Spring Washer	8-2			4						
Hexagon Bolt	M6 × 16L			1						
Hexagon U Nut	M6			1						
Truss Screw	M6 × 25L			1						
Post Installed Anchor	M10 × 100L			4						
Pan-head Screw	M5 × 30 L				3	5	7	9	11	
Flat Washer	5				3	5	7	9	11	
Tap Hole Screw	M5				3	5	7	9	11	
Tap Hole Screw	M8				9	11	13	15	17	
Bolt Cap	φ 13		3							
Hexagon Bolt	M6 × 30L				10	18	26	34	42	
Truss Screw	M4 × 20L				6	10	14	18	22	
Hole Cap	φ 9-1.3t				11	22	33	44	55	
Hole Cap	φ 9-2.2t				5	9	14	18	22	
Hole Cover Sticker	φ 18				10	15	20	25	30	

Installation Drawing



1. Install main body panel from longer panel to shorter panel from door stop post side.
(The panel has 4 lengths, 3m, 2.5m, 2m, and 1.5m.)
2. This drawing shows left side close (L) 5S size. When the right side close (R), the things will be opposite.

Code and Size Table

NR ■ F ○ ○ (R • L) - (S) Size S □ □

NR1: Vertical Lattice
NR2: Cross Lattice
NR3: Perforated Panel
NR4: Louver

12
14
16
18

Stainless Steel Rail

R: Right Side Close
L: Left Side Close

Single Open

Colour
NR1/2: BK/MR/SC
NR3/4: SC
NRL : SC (SC+BK)

NR1, NR2, NRL

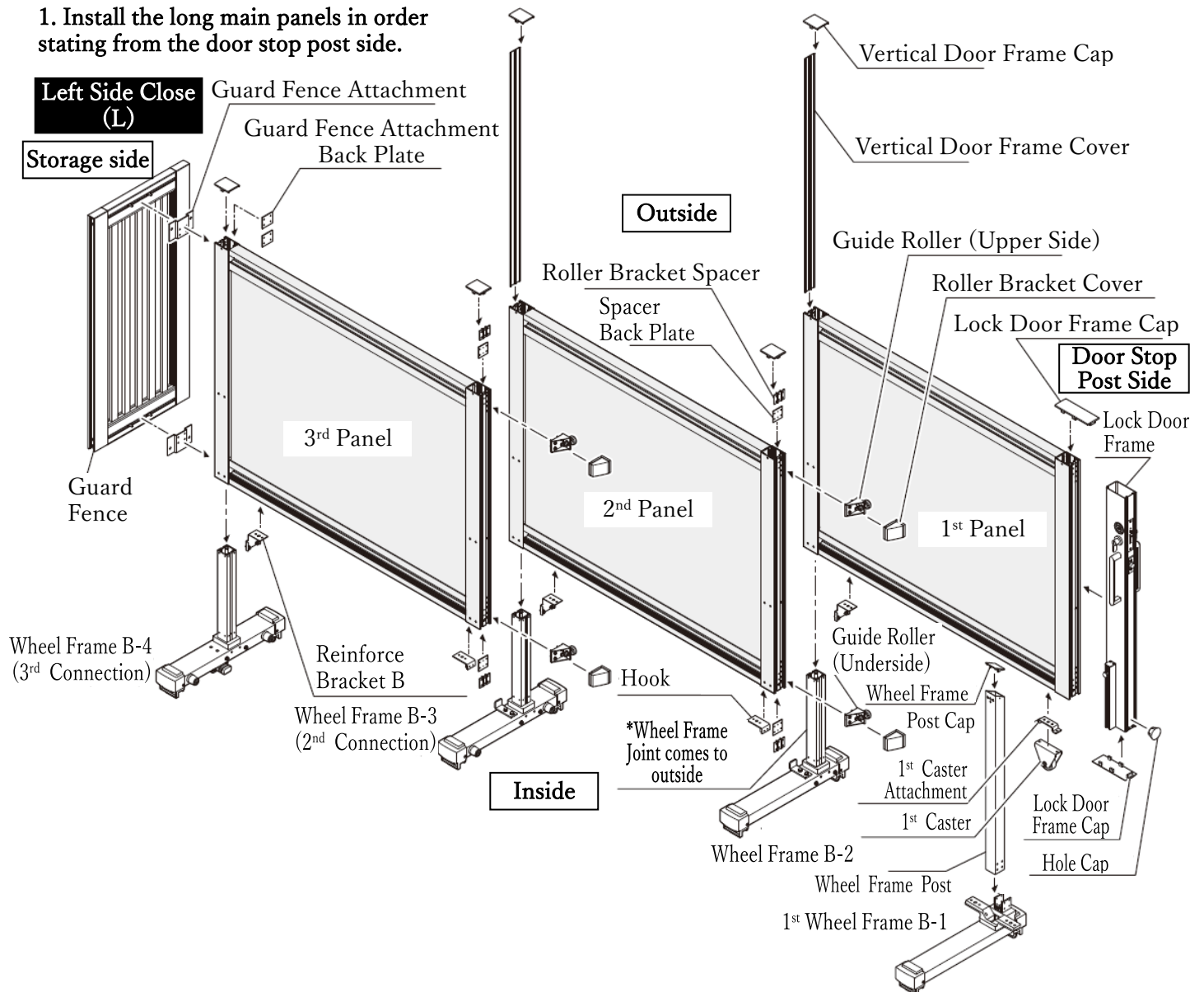
Size	Total Width	Door Width	Open Width	Storage Width
3S	5713	3435	3000	2580
35S	6453	3935	3500	2820
4S	6953	4435	4000	2820
45S	7953	4935	4500	3320
5S	8693	5435	5000	3560
55S	9693	5935	5500	4060
6S	9933	6435	6000	3800
65S	10193	7021	6500	3560
7S	10433	7521	7000	3300
75S	10933	8021	7500	3300
8S	12173	8521	8000	4040
85S	12673	9021	8500	4040
9S	13173	9521	9000	4040
95S	13173	10107	9500	3540
10S	13673	10607	10000	3540
105S	14673	11107	10500	4040
11S	15413	11607	11000	4280
115S	15913	12107	11500	4280
12S	16413	12607	12000	4280
125S	16413	13193	12500	3780
13S	17393	13693	13000	4260
135S	17893	14193	13500	4260
14S	18393	14693	14000	4260
145S	18893	15193	14500	4260
15S	19393	15693	15000	4260

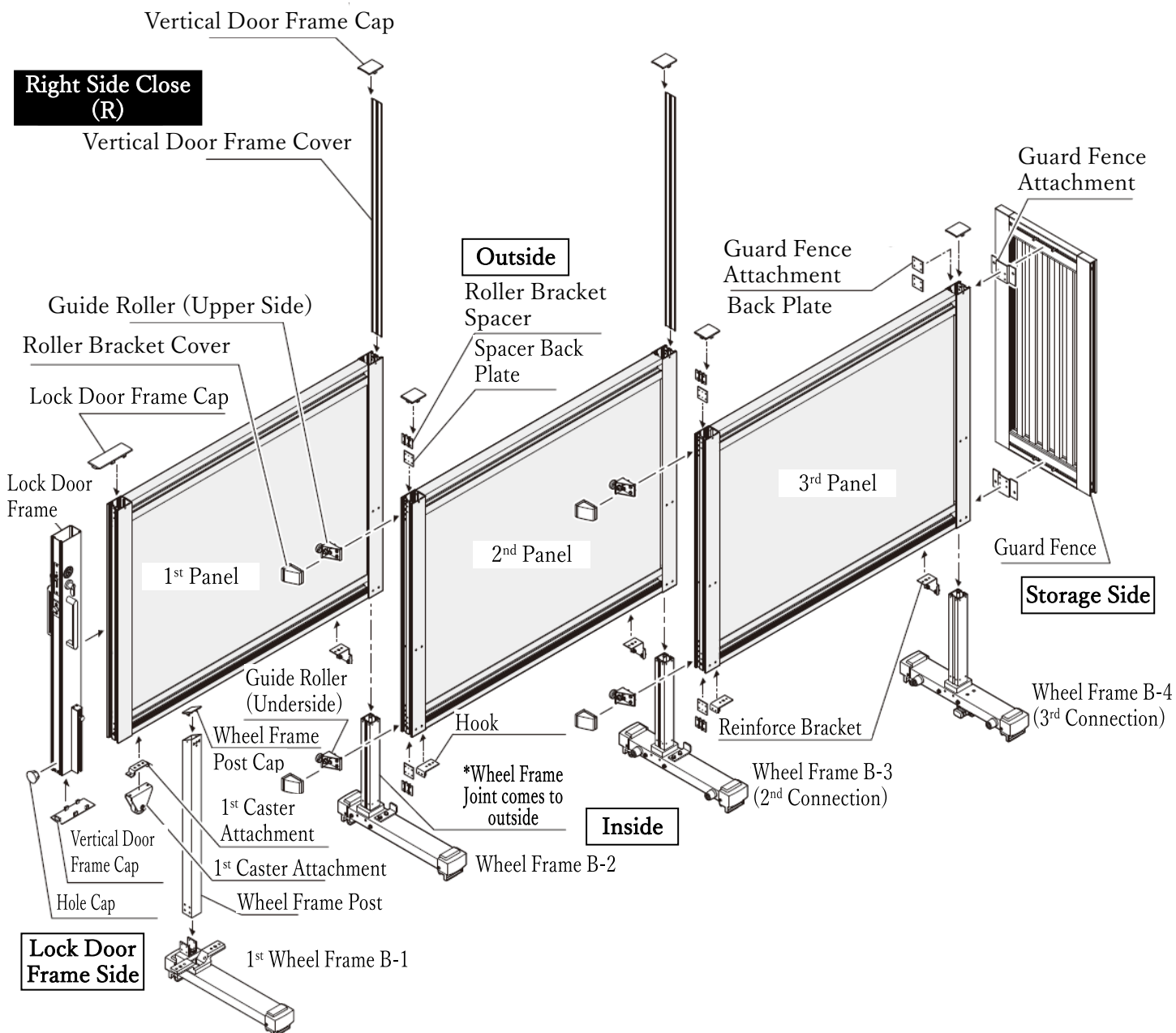
NR3, NR4

Size	Total Width	Door Width	Open Width	Storage Width
3S	5713	3435	3000	2580
35S	6453	3935	3500	2820
4S	6953	4435	4000	2820
45S	6953	5021	4500	2320
5S	7953	5521	5000	2820
55S	8693	6021	5500	3060
6S	9193	6521	6000	3060
65S	9693	7107	6500	3060
7S	10193	7607	7000	3060
75S	10933	8107	7500	3300
8S	11433	8607	8000	3300
85S	11933	9193	8500	3300
9S	12433	9693	9000	3300
95S	13173	10193	9500	3540
10S	13673	10693	10000	3540
105S	14173	11279	10500	3540
11S	14673	11779	11000	3540
115S	14913	12279	11500	3280
12S	15413	12779	12000	3280

Construction Flow

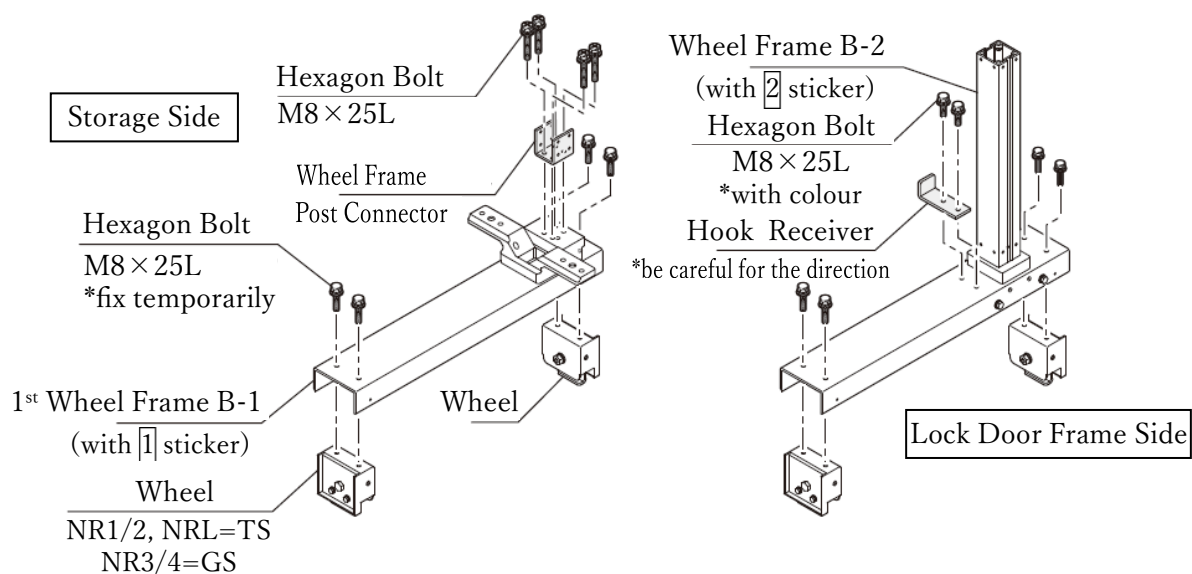
1. Install the long main panels in order stating from the door stop post side.



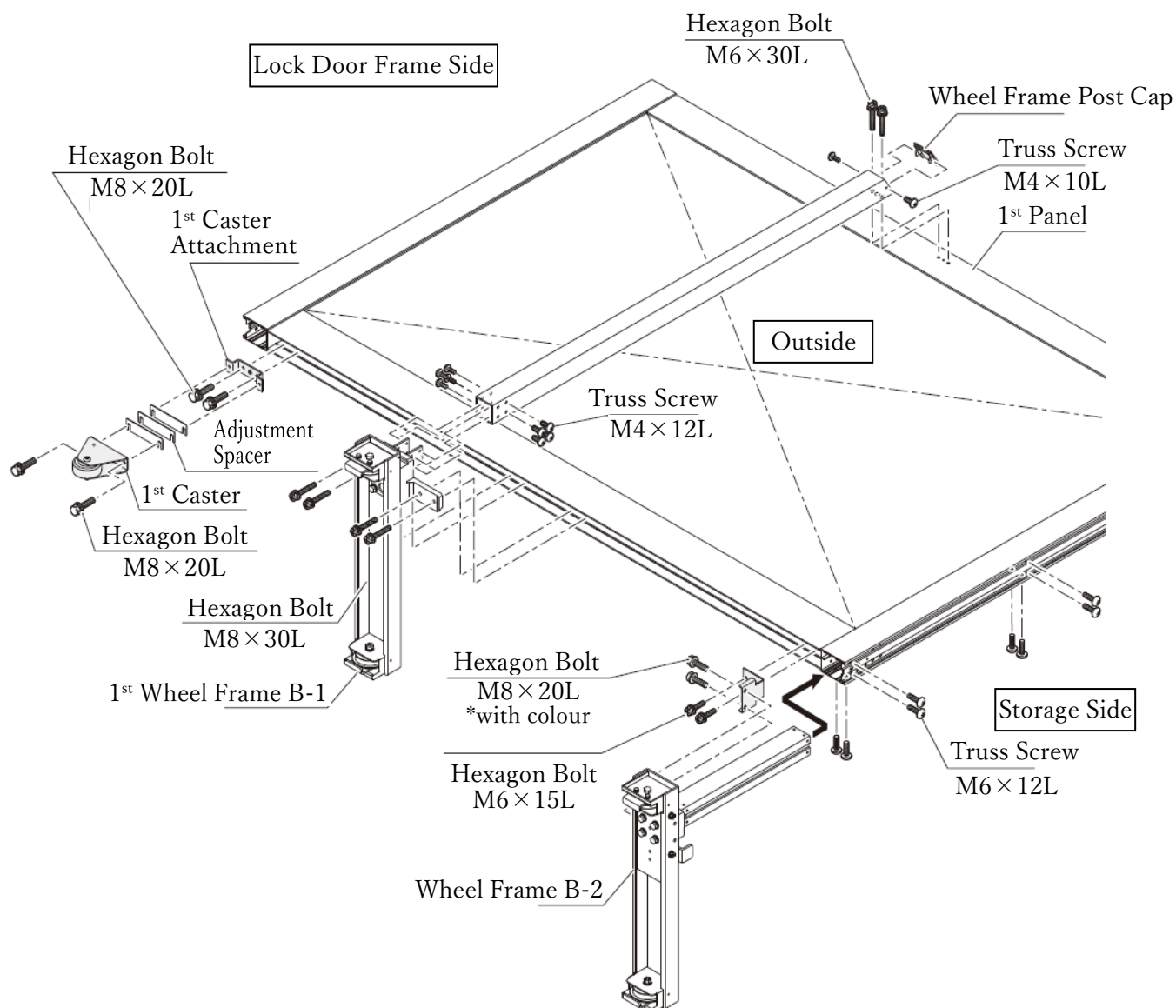


1 Installation of Rail

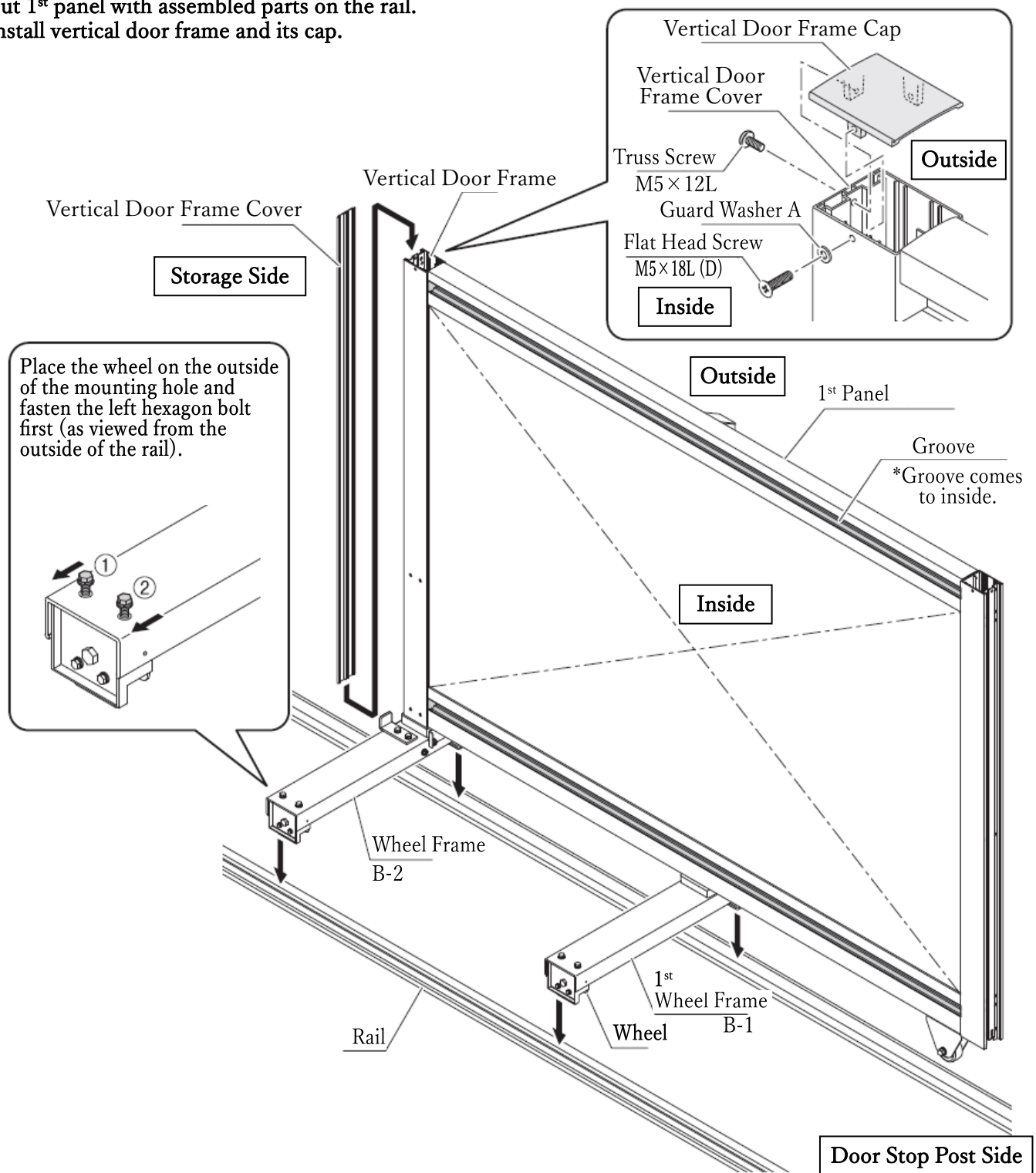
1. Install wheel frame connector, hook receiver, and wheel to wheel frame.



2. Install 1st wheel frame B-1, wheel frame B-2, and 1st caster to 1st panel.



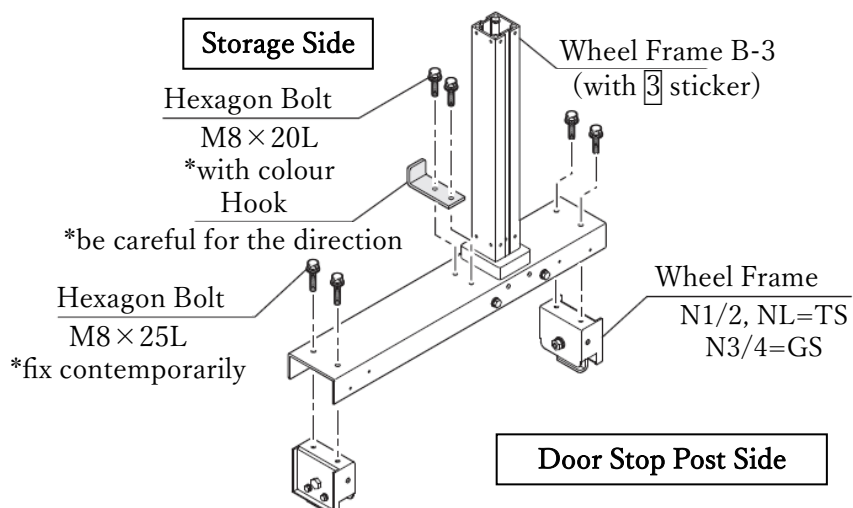
2. Put 1st panel with assembled parts on the rail.
3. Install vertical door frame and its cap.



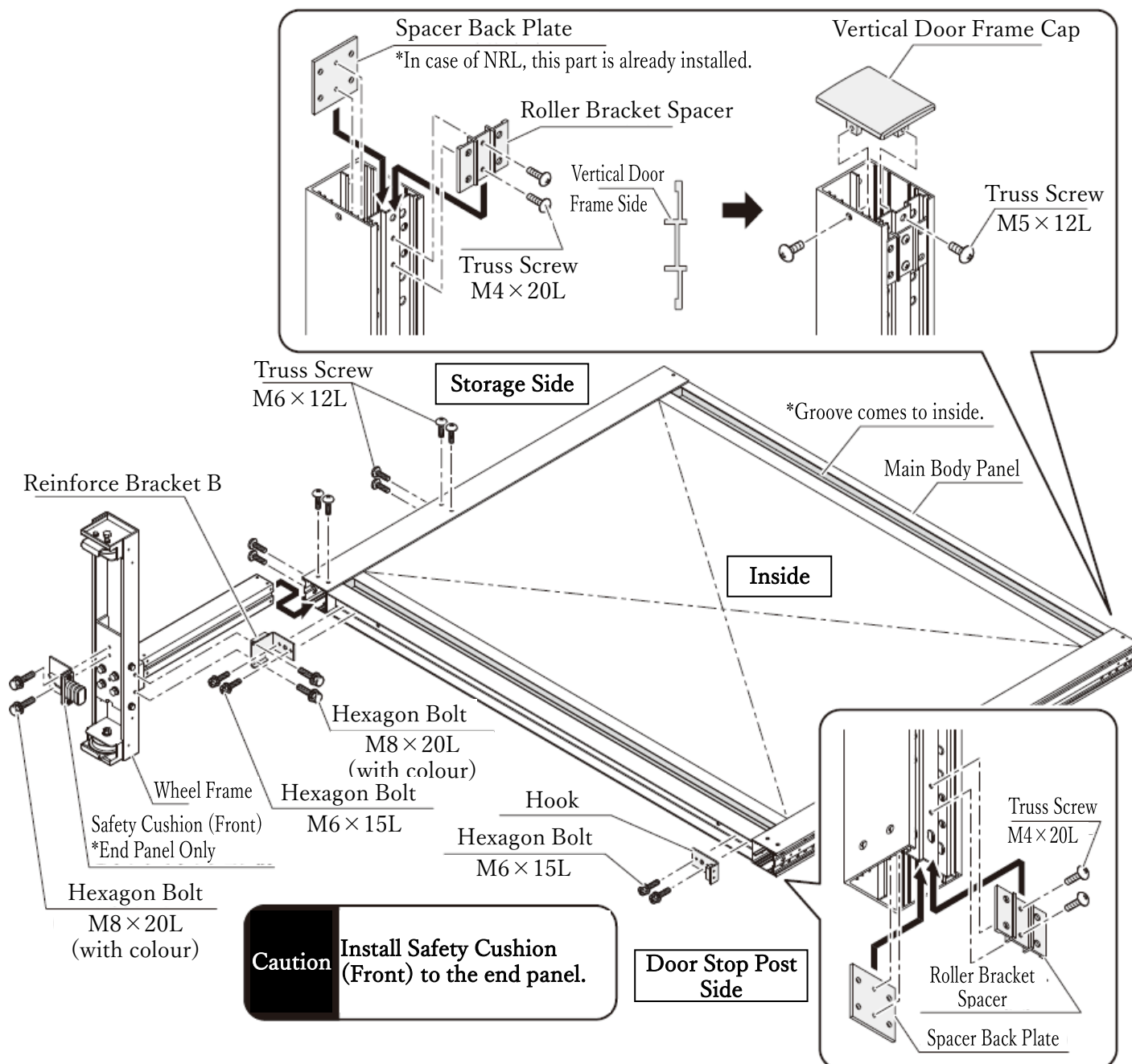
2

Installation of the 2nd and Subsequent Main Body

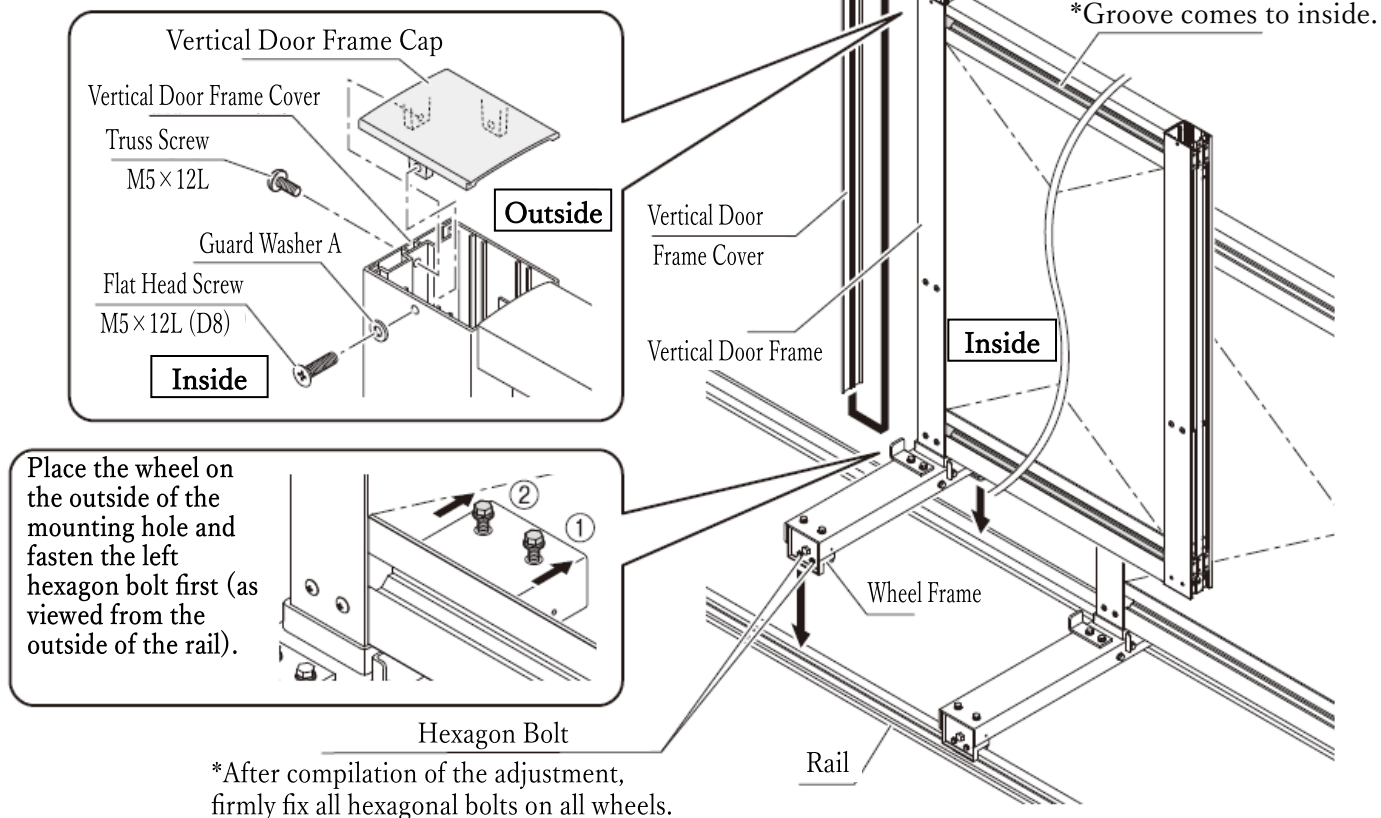
1. Install hook and wheel to wheel frame.



2. Install wheel frame, reinforce bracket B, hook, spacer back plate, roller bracket spacer, and vertical door frame cap to main body panel.

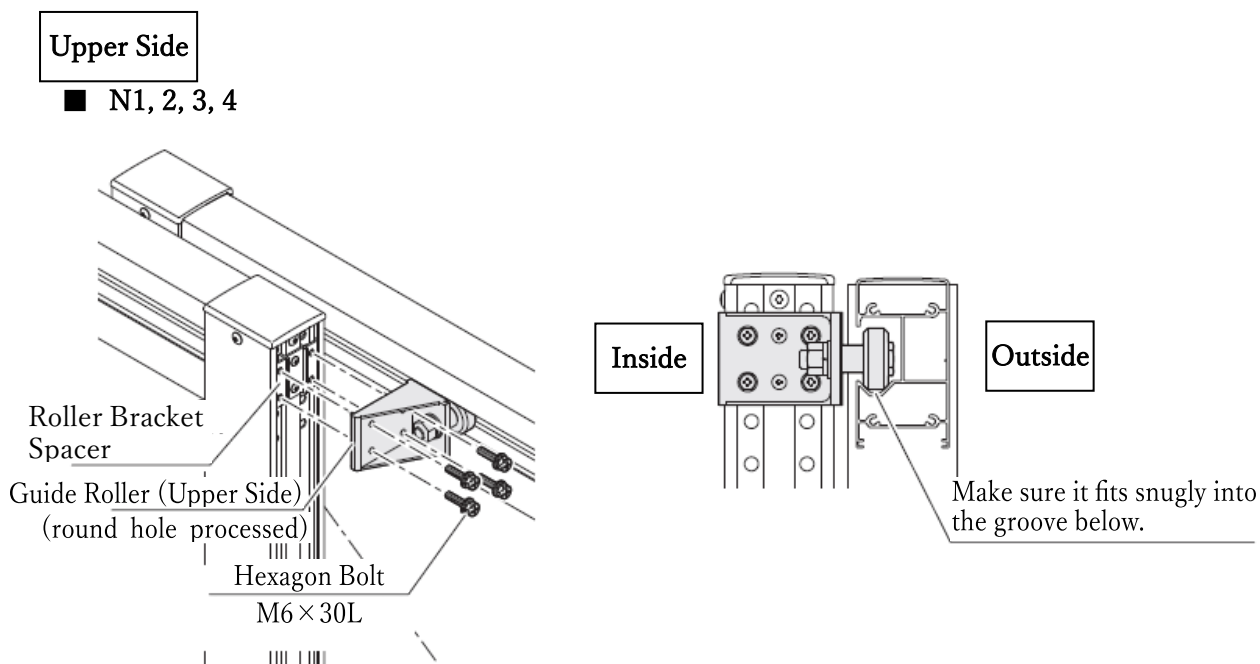


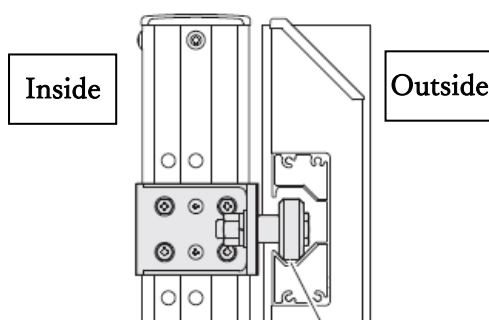
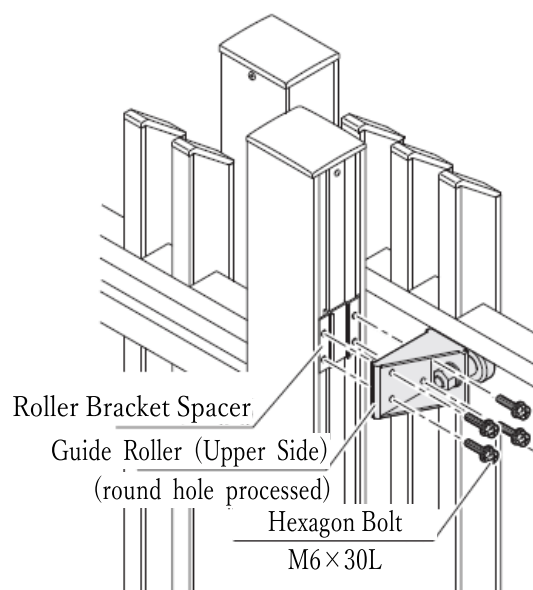
3. Put panel with assembled parts on the rail.
4. Install vertical door frame cover and its cap.



3 Installation and Adjustment of Guide Roller.

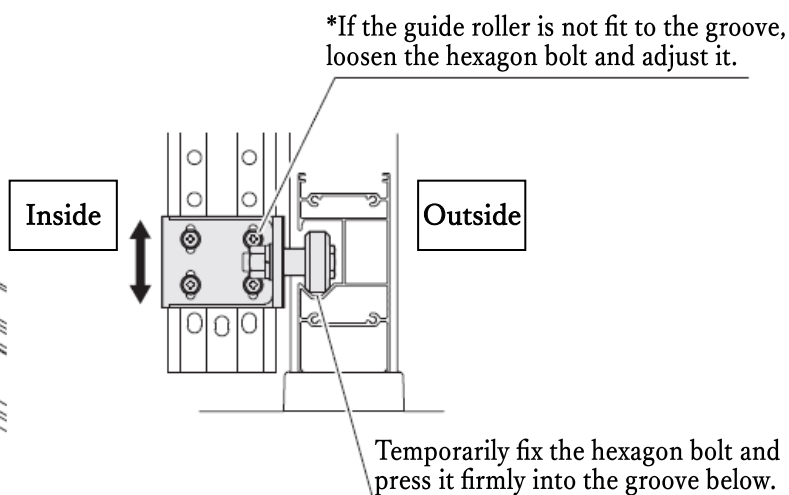
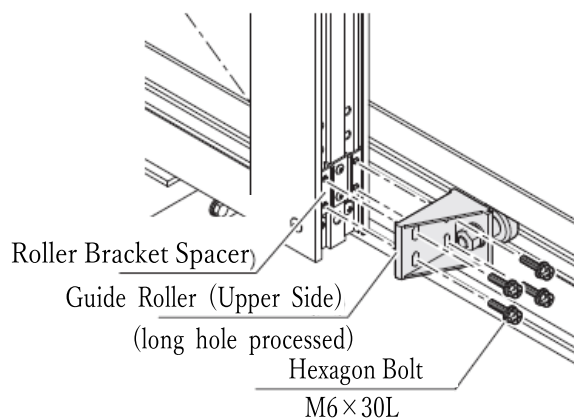
1. Install guide roller.





Make sure it fits snugly into the groove below.

Underside



4 Installation of Main Body Panel (3rd Subsequence~)

If the size has more than 3 connections of main body panel, follow the same procedure of

→

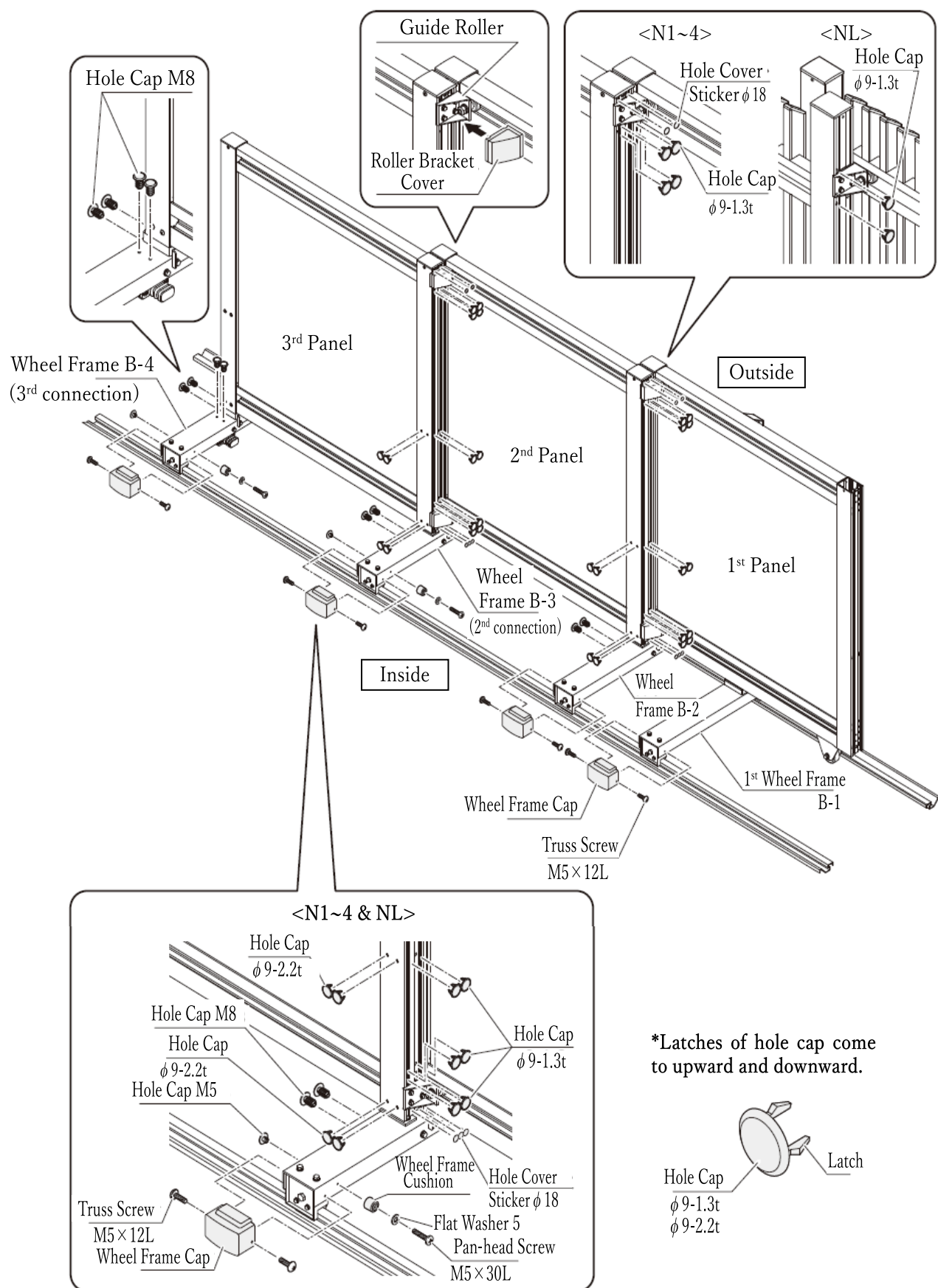
2

3

5

Installation of Wheel Frame Cap, Cushion, Roller Bracket Cover, and Hole Cap

1. Install wheel frame cap, wheel frame cushion, roller bracket cover, hole cap M5, M8, $\phi 9-1.3t$ and $\phi 9-2.2t$.

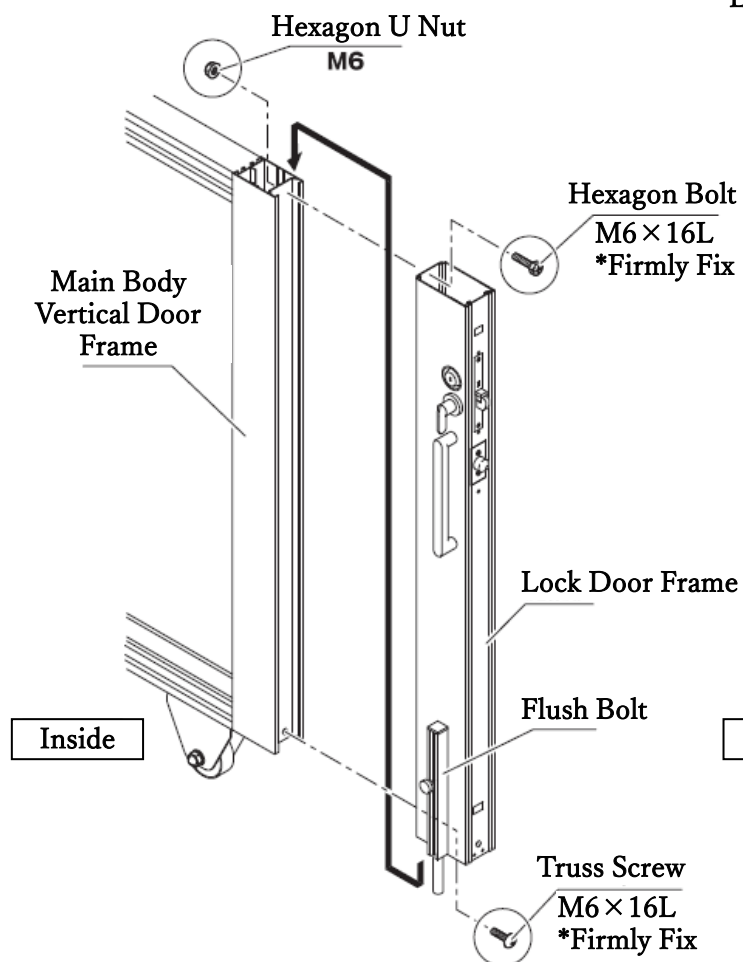


6

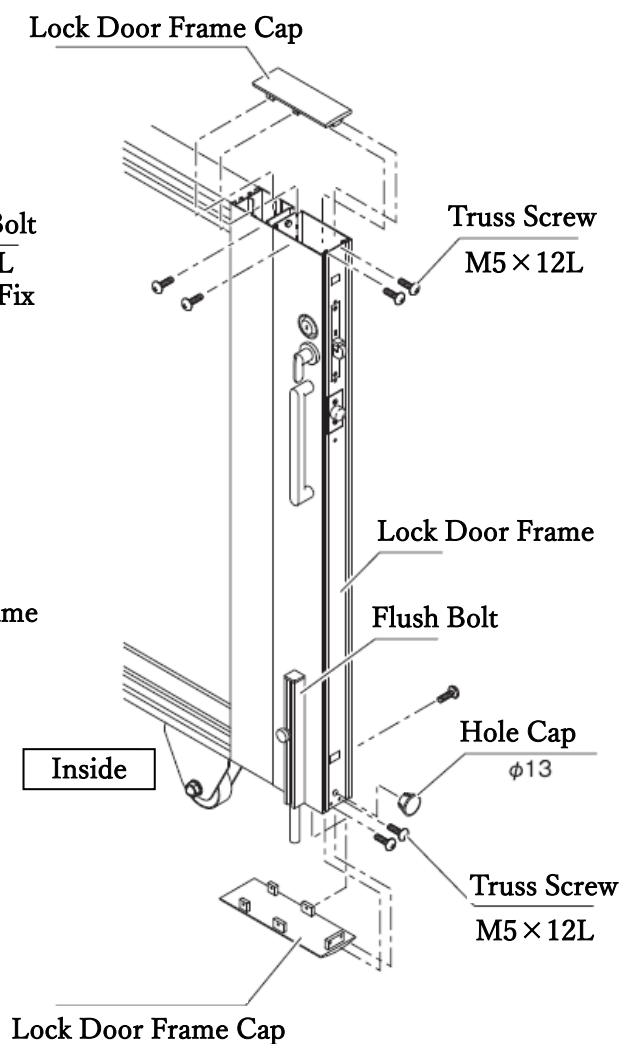
Installation of Lock Door Frame

1. Install lock door frame to main body vertical door frame.
2. Install lock door frame cap and hole cap.

■ Installation of Lock Door Frame



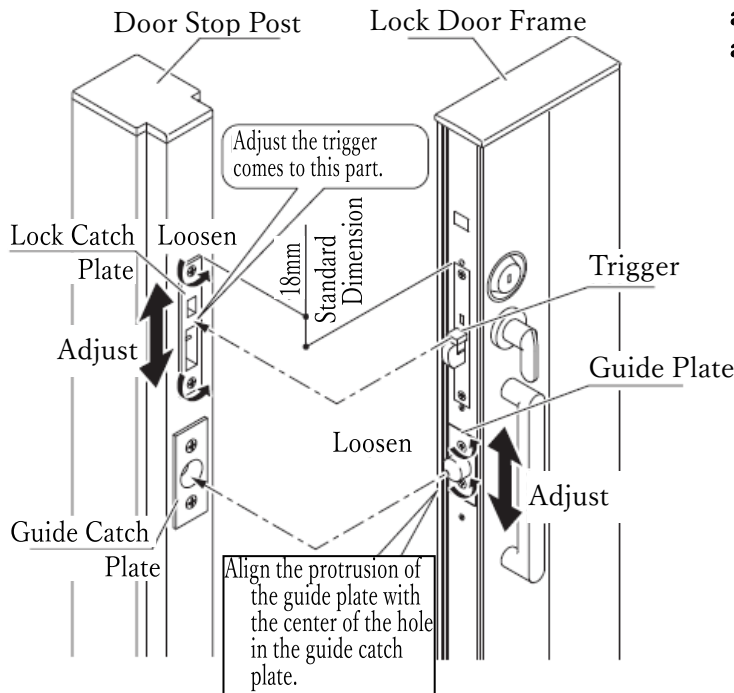
■ Installation of Lock Door Frame Cap



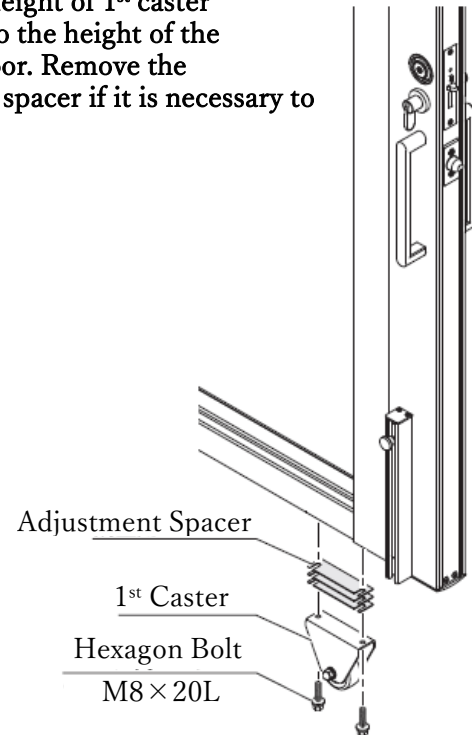
7

Adjustment of Lock Catch Plate, Guide Plate, & 1st Caster

1. Adjust the height of lock catch plate and guide plate.



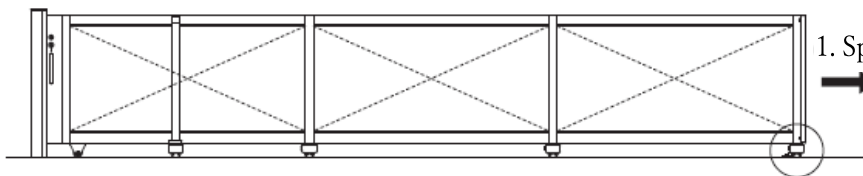
2. Adjust the height of 1st caster according to the height of the concrete floor. Remove the adjustment spacer if it is necessary to adjust.



8

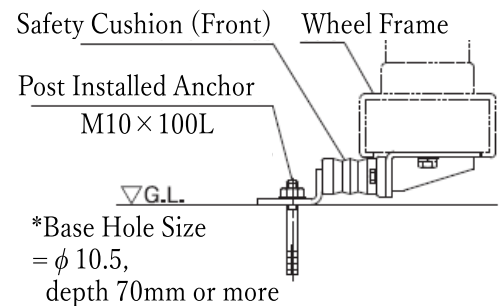
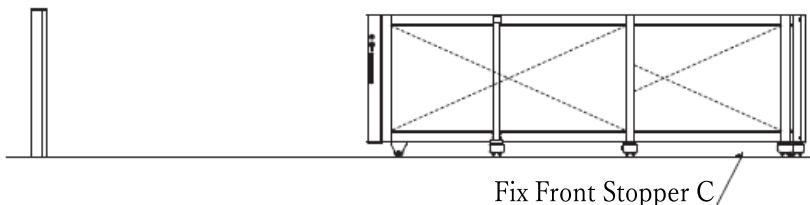
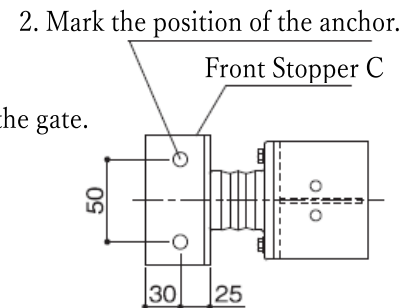
Installation and Adjustment of Front Stopper C

1. Spread the gate while locking it with door stop post.
2. Place the front stopper C in the position shown in the drawing below and mark the position of the anchor.

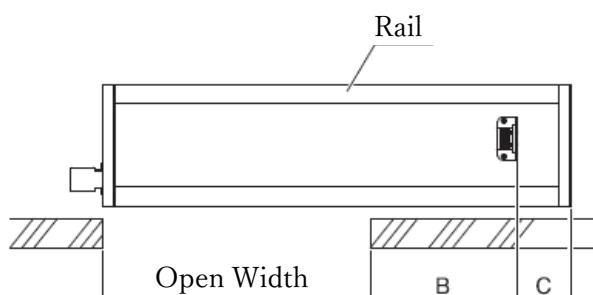


3. Unlock the gate.

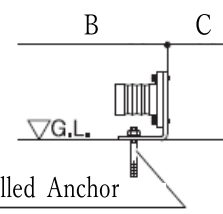
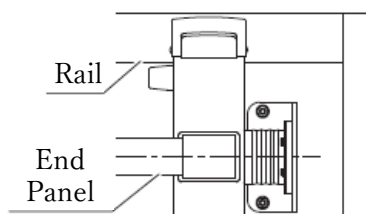
4. Drill holes for the anchors. Then fix the front stopper C with post installed anchor (M10 x 100L). At this time, the safety cushion (front) will be on the storage side of the front stopper C.



1. Drill holes for the anchors with the dimension written in the table, and fix the safety cushion B with post installed anchor (M10×100L).



■ When Main Body Panels Are Less Than 5.

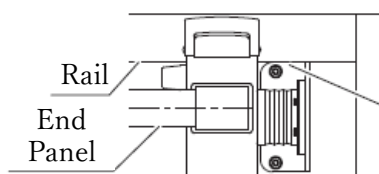


Post Installed Anchor

M10×100

Base Hole Size = ϕ 10.5,
depth 70mm or more

■ When Main Body Panels Are 6.
(105S~12S Size)



Align the edge of the safety
cushion B to the rail.

N1, N2, NL

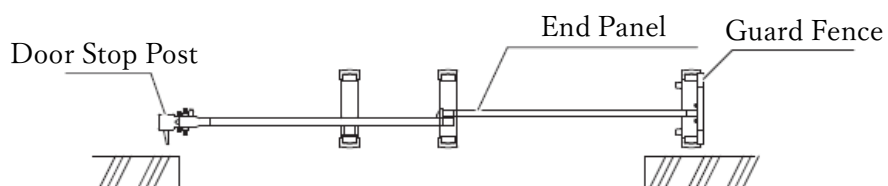
Size	B	C	Size	B	C
3S	2330	250	95S	3410	130
35S	2720	100	10S	3410	130
4S	2720	100	105S	3940	100
45S	3220	100	11S	4030	250
5S	3310	250	115S	4030	250
55S	3810	250	12S	4030	250
6S	3700	100	125S	3680	100
65S	3330	230	13S	4160	100
7S	3230	70	135S	4160	100
75S	3230	70	14S	4160	100
8S	3750	290	145S	4160	100
85S	3790	250	15S	4160	100
9S	3790	250			

N3, N4

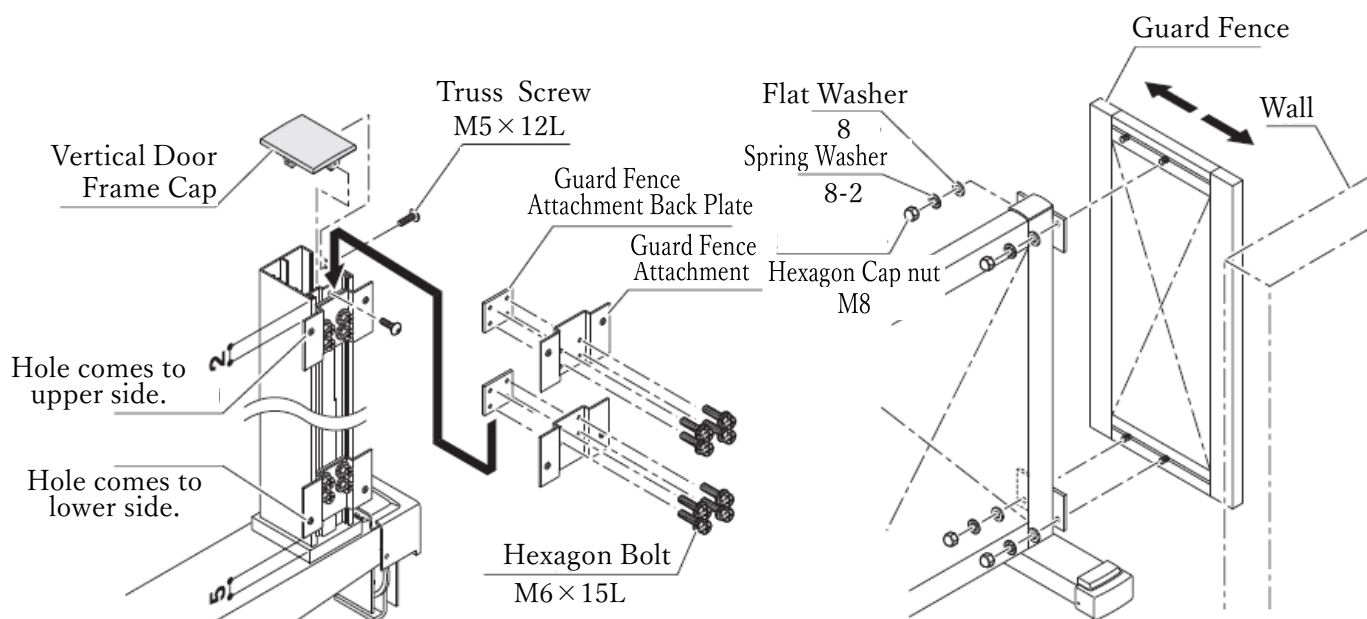
Size	B	C	Size	B	C
3S	2330	250	95S	3240	300
35S	2720	100	10S	3240	300
4S	2720	100	105S	3240	300
45S	2270	50	11S	3280	260
5S	2770	50	115S	3200	80
55S	2810	250	12S	3200	80
6S	2810	250			
65S	2960	100			
7S	2960	100			
75S	3000	300			
8S	3000	300			
85S	3190	110			
9S	3190	110			

10 Installation of Guard Fence

1. Install the guard fence to the end panel.

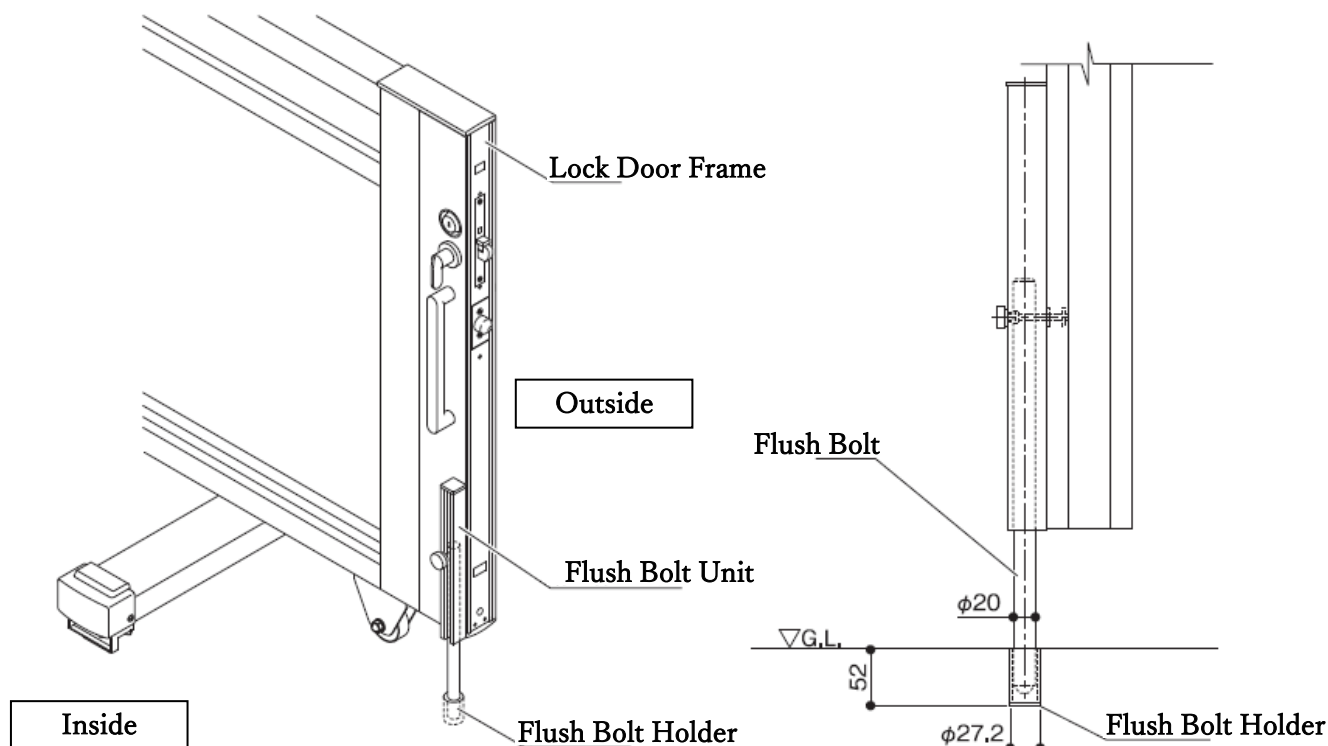


2. Insert the guard fence attachment back plate to the vertical door frame's groove.
3. Attache the vertical door frame cap.
4. Fix the guard fence attachment to the position drawn below.
5. To not to the space between guard fence and wall are widely open, adjust the position of guard fence.



11 Installation of Flush Bolt

1. Bury flush bolt holder after confirmation of the flush bolt's position when fully closed and opened.



12 Check Items After Compilation of Installation

Check Item	Solution
Is it possible to lock and unlock with a key?	If the key is difficult to turn or the hook is stuck and difficult to remove, adjust the height of the lock catch plate and lock front plate. (See 7) Also, please record the key number as it will be necessary to reorder if you lose it.
Is the safety cushion (rear) B installed in the correct position?	When the door is fully open, make sure that the wheel frame (End) touches the safety cushion (rear) B. (See 9)
Is the safety cushion (front) installed in the correct position?	When the door is fully closed, make sure that the safety cushion's rubber is not crushed. (See 8)
Are the fall prevention plates installed in the correct position?	Make sure the fall prevention plate does not come into contact with the rail when opening or closing. Also, retighten the fall prevention plate mounting bolts (Hexagon Bolt). (See 2)
Are any screws and bolts loose or forgotten to be installed?	After completing all installation, check that all screws and bolts are securely fastened.