

CS 80 MAGNEO

Automatic sliding door operator

Installation and Troubleshooting Manual

DL3316-020 – 10-2022

| EN |

dormakaba 

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1 Technical data and MAGNEO configurations

1.1 Technical data

1.1.1 Power supply.

Power supply	115 Vac ±10%, 50/60 Hz
Branch circuit protection (by others)	15 A
Cable type	14 AWG (Max. 12 AWG) [Max. 3 x 1.5 mm ²]

1.1.2 Power consumption without external accessories.

Standby mode	5.6 W
Automatic mode	Max. 60 W

1.1.3 General information.

Temperature range	0 - 104° F [0 - 40° C]
Operating noise of operator	Max. 55 dB (A)
Door panel height	Max. 118" [Max. 3000 mm]
Door panel weight	44lbs - 175lbs [20 kg - 80 kg]

FC FCC 15.105 (a)
NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generated, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her expense.

1.1.4 Weight of operator.

Maximum passage width	Operator length without cover	Weight of operator
34.4" [875 mm]	69.9" [1750 mm]	18.8 lbs [8.6 kg]
39.4" [1000 mm]	78.7" [2000 mm]	20.7 lbs [9.4 kg]
44.3" [1125 mm]	88.6" [2250 mm]	22.4 lbs [10.2 kg]

1.1.5 Symbols used in these instructions.



WARNING

This symbol warns of hazards which could result in personal injury or threat to health.

CAUTION

This symbol warns of a potentially unsafe procedure or situation.

NOTICE

Draws attention to important information presented in this document.



TIPS AND RECOMMENDATIONS

Clarifies instructions or other information presented in this document.

1.1.5 Cover page illustration.

Cover page documents the CS 80 MAGNEO ON-WALL operator configurations.

Reference Paragraphs .2 through .13 for all CS 80 MAGNEO operator configurations.

1.2 MAGNEO ON-WALL assembly with MANET

Fig. 1.2.1 MAGNEO ON-WALL with MANET installation

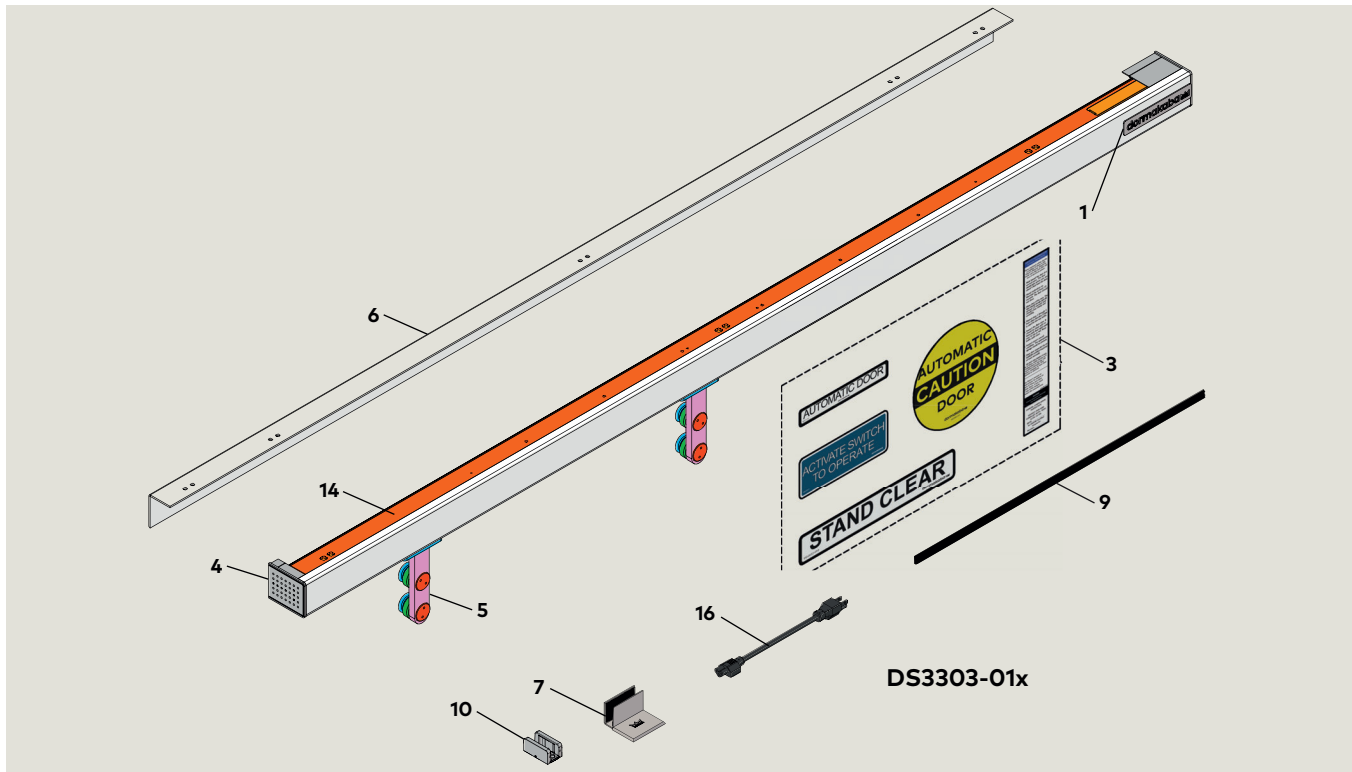


Table 1.2.1 MAGNEO ON-WALL with MANET assembly DS3300-0xx configurations

Part No.	Description	Finish
DS3300-01A	MAGNEO ON-WALL w/ MANET 875 CL	Clear
DS3300-01B	MAGNEO ON-WALL w/ MANET 875 DB	Dark bronze
DS3300-010	MAGNEO ON-WALL w/ MANET 875 ML	Mill
DS3300-02A	MAGNEO ON-WALL w/ MANET 1000 CL	Clear
DS3300-02B	MAGNEO ON-WALL w/ MANET 1000 DB	Dark bronze
DS3300-020	MAGNEO ON-WALL w/ MANET 1000 ML	Mill
DS3300-03A	MAGNEO ON-WALL w/ MANET 1125 CL	Clear
DS3300-03B	MAGNEO ON-WALL w/ MANET 1125 DB	Dark bronze
DS3300-030	MAGNEO ON-WALL w/ MANET 1125 ML	Mill

Table 1.2.2 MAGNEO ON-WALL with MANET assembly DS3300-0xx

16	DX3310-010	MAGNEO power cord, 24"	1	1	1
15	DS3304-010	Mode switch-internal (not shown)	1	1	1
14	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
14	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
14	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
14	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
13	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
12	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
11	DL3316-010	Instruction, MAGNEO mounting	1	1	1
10	DK3415-010	MAGNEO floor guide	1	1	1
9	DK3307-010	Snap-on edge cover kit, MAGNEO	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3299-01G	Kit, Floor guide	1	1	1
6	DK3297-030	On-wall mounting kit, MAGNEO 1125 mm	-	-	1
6	DK3297-020	On-wall mounting kit, MAGNEO 1000 mm	-	1	-
6	DK3297-010	On-wall mounting kit, MAGNEO 875 mm	1	-	-
5	DK3293-01G	MANET kit, MAGNEO	1	1	1
4	DK3289-01_	End cap set, 62 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3291-01X	Extrusion, cover, 62 mm, 2336	-	-	1
2	DE3291-01X	Extrusion, cover, 62 mm, 2086	-	1	-
2	DE3291-01X	Extrusion, cover, 62 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly			-01X QTY	-02X QTY	-03X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.3 MAGNEO ON-WALL assembly with WOOD

Fig. 1.3.1 MAGNEO ON-WALL installation with Wood

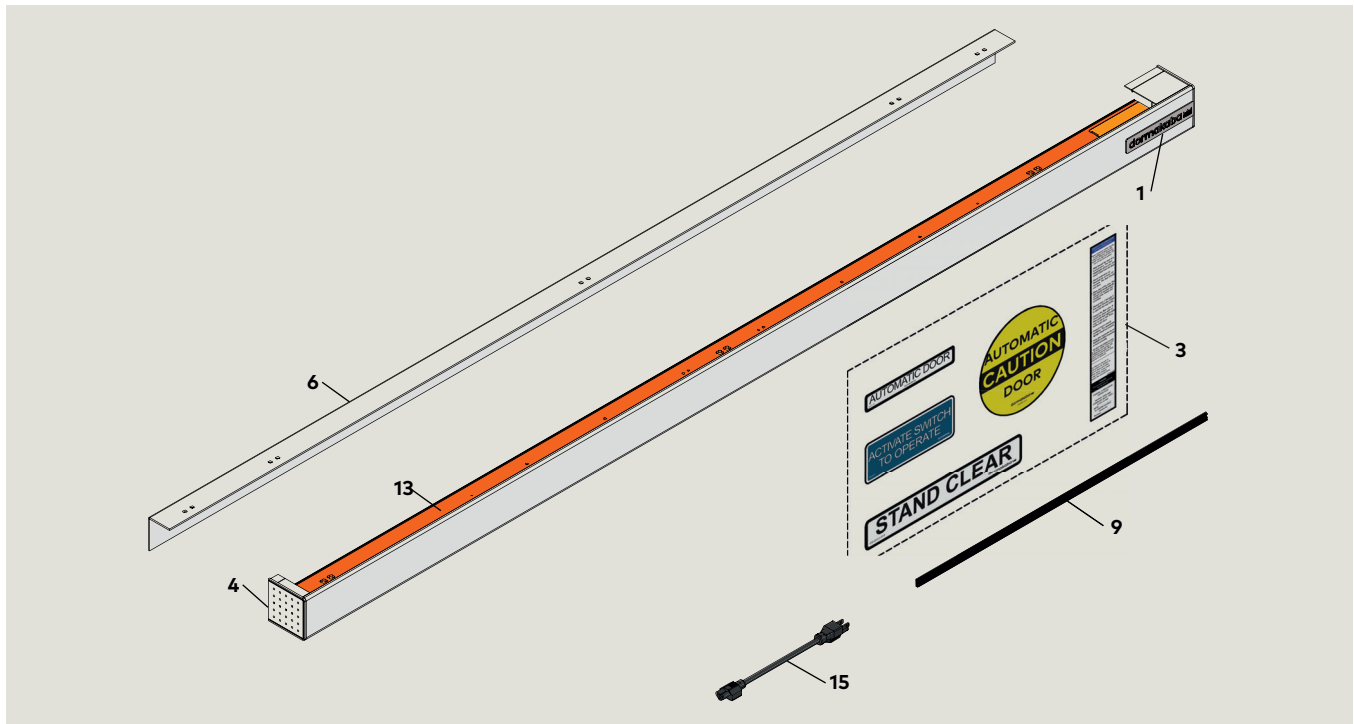


Table 1.3.1 MAGNEO ON-WALL assembly DS3300-0xx with Wood configurations

Part No.	Description	Finish
DS3300-04A	MAGNEO ON-WALL w/ Wood 875 CL	Clear
DS3300-04B	MAGNEO ON-WALL w/ Wood 875 DB	Dark bronze
DS3300-040	MAGNEO ON-WALL w/ Wood 875 ML	Mill
DS3300-05A	MAGNEO ON-WALL w/ Wood 1000 CL	Clear
DS3300-05B	MAGNEO ON-WALL w/ Wood 1000 DB	Dark bronze
DS3300-050	MAGNEO ON-WALL w/ Wood 1000 ML	Mill
DS3300-06A	MAGNEO ON-WALL w/ Wood 1125 CL	Clear
DS3300-06B	MAGNEO ON-WALL w/ Wood 1125 DB	Dark bronze
DS3300-060	MAGNEO ON-WALL w/ Wood 1125 ML	Mill

Table 1.3.2 MAGNEO ON-WALL with Wood assembly DS3300-0xx

15	DX3310-010	MAGNEO power cord, 24"	1	1	1
14	DS3304-010	Mode switch-internal (not shown)	1	1	1
13	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
13	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
13	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
12	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
11	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
10	DL3316-010	Instruction, MAGNEO mounting	1	1	1
9	DK3307-010	Snap-on edge cover kit, MAGNEO	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3303-010	Solid door floor guide kit	1	1	1
6	DK3297-030	On-wall mounting kit, MAGNEO 1125 mm	-	-	1
6	DK3297-020	On-wall mounting kit, MAGNEO 1000 mm	-	1	-
6	DK3297-010	On-wall mounting kit, MAGNEO 875 mm	1	-	-
5	DK3295-010	Wood door mounting and guide rail 1125 mm	1	1	1
4	DK3289-02_	End cap set, 75 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3291-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly			-04X QTY	-05X QTY	-06X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.4 MAGNEO ON-WALL assembly with CLAMP

Fig. 1.4.1 MAGNEO ON-WALL installation with Clamp

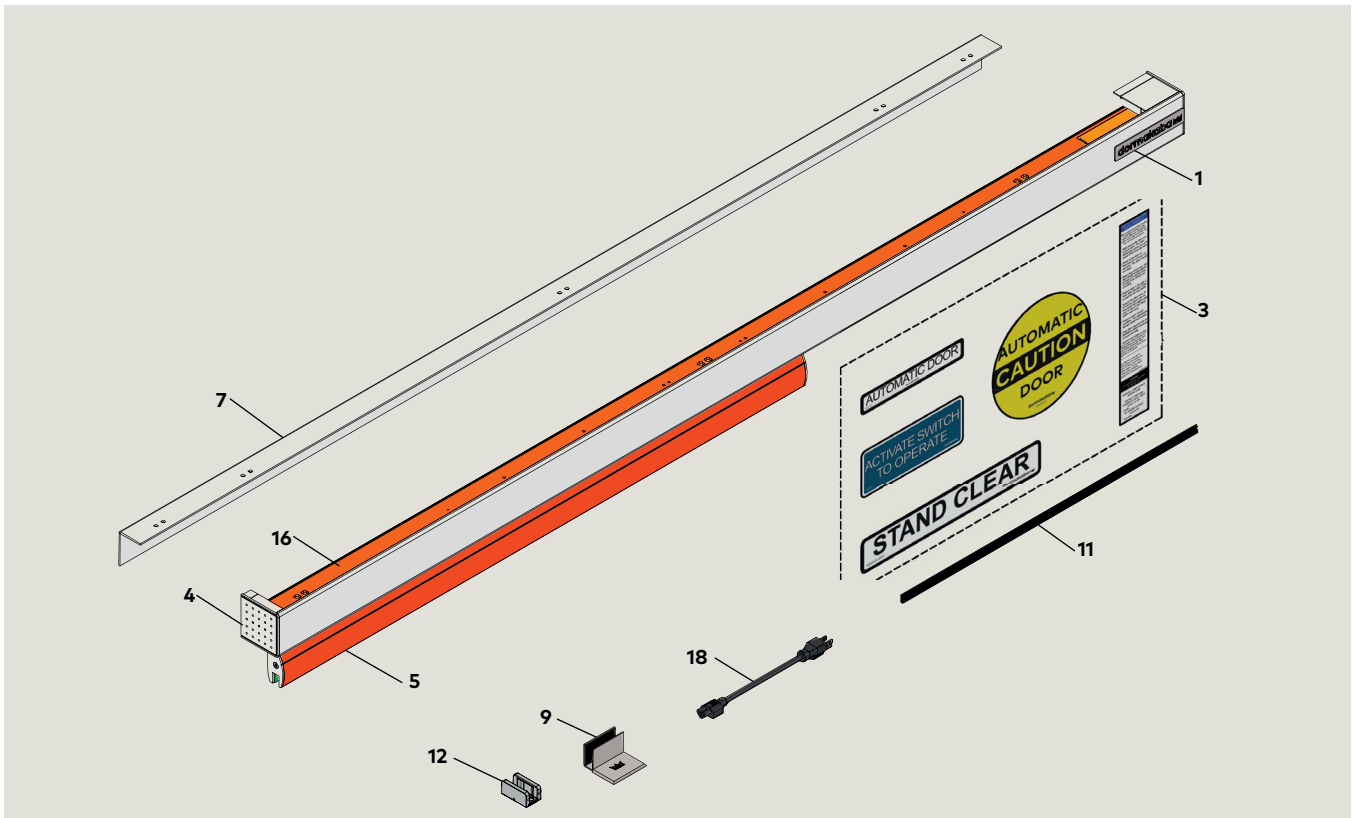


Table 1.4.1 MAGNEO ON-WALL assembly DS3300-0xx Clamp configurations

Part No.	Description	Finish
DS3300-07A	MAGNEO ON-WALL w/ Clamp 875 CL	Clear
DS3300-07B	MAGNEO ON-WALL w/ Clamp 875 DB	Dark bronze
DS3300-070	MAGNEO ON-WALL w/ Clamp 875 ML	Mill
DS3300-08A	MAGNEO ON-WALL w/ Clamp 1000 CL	Clear
DS3300-08B	MAGNEO ON-WALL w/ Clamp 1000 DB	Dark bronze
DS3300-080	MAGNEO ON-WALL w/ Clamp 1000 ML	Mill
DS3300-09A	MAGNEO ON-WALL w/ Clamp 1125 CL	Clear
DS3300-09B	MAGNEO ON-WALL w/ Clamp 1125 DB	Dark bronze
DS3300-090	MAGNEO ON-WALL w/ Clamp 1125 ML	Mill

Table 1.4.2 MAGNEO ON-WALL with Clamp assembly DS3300-0xx

18	DX3310-010	MAGNEO power cord, 24"	1	1	1
17	DS3304-010	Mode switch-internal (not shown)	1	1	1
16	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
16	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
16	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
15	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
14	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
13	DL3316-010	Instruction, MAGNEO mounting	1	1	1
12	DK3415-010	MAGNEO floor guide	1	1	1
11	DK3307-010	Snap-on edge cover kit, MAGNEO	1	1	1
10	DK3306-010	Screwdriver kit (not shown)	1	1	1
9	DK3299-01G	Floor guide kit	1	1	1
8	DK3297-030	On-wall mounting kit, MAGNEO 1125 mm	-	-	1
7	DK3297-020	On-wall mounting kit, MAGNEO 1000 mm	-	1	-
7	DK3297-010	On-wall mounting kit, MAGNEO 875 mm	1	-	-
6	DK3294-03_	Clamp rail kit - 1125 mm	-	-	1
5	DK3294-02_	Clamp rail kit - 1000 mm	-	1	-
5	DK3294-01_	Clamp rail kit - 875 mm	1	-	-
4	DK3289-02_	End cap set, 75 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3291-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
	Part / Assembly	Description	-07X QTY	-08X QTY	-09X QTY



TIPS AND RECOMMENDATIONS

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Reference Para. 1.14 for kit assembly overviews.

1.5 MAGNEO ON-GLASS assembly with MANET

Fig. 1.5.1 MAGNEO ON-GLASS installation with MANET - 875 mm

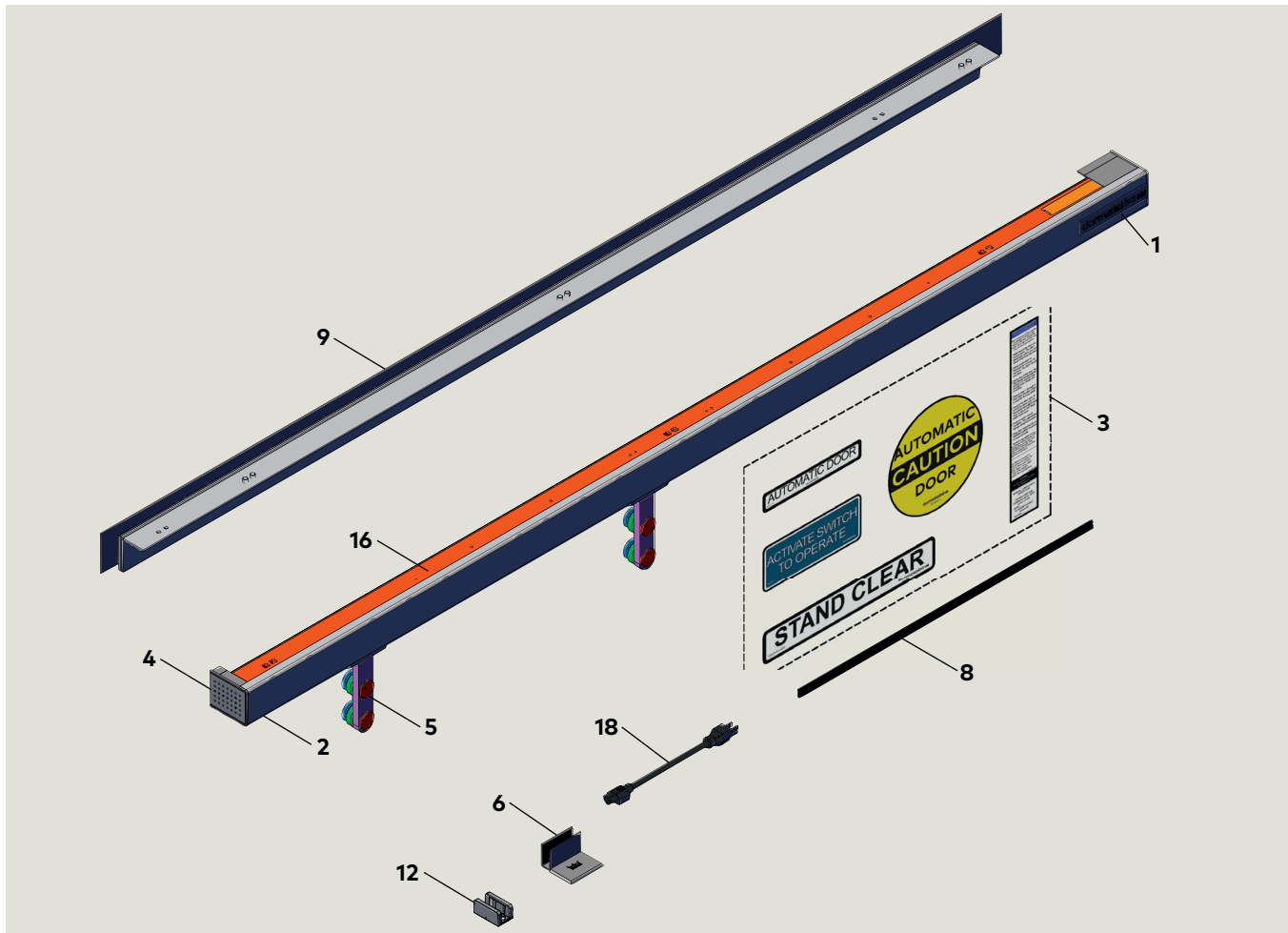


Table 1.5.1 MAGNEO ON-GLASS assembly DS3301-0xx configurations

Part No.	Description	Finish
DS3301-01A	MAGNEO ON-GLASS w/ MANET 875 CL	Clear
DS3301-01B	MAGNEO ON-GLASS w/ MANET 875 DB	Dark bronze
DS3301-010	MAGNEO ON-GLASS w/ MANET 875 ML	Mill
DS3301-02A	MAGNEO ON-GLASS w/ MANET 1000 CL	Clear
DS3301-02B	MAGNEO ON-GLASS w/ MANET 1000 DB	Dark bronze
DS3301-020	MAGNEO ON-GLASS w/ MANET 1000 ML	Mill
DS3301-03A	MAGNEO ON-GLASS w/ MANET 1125 CL	Clear
DS3301-03B	MAGNEO ON-GLASS w/ MANET 1125 DB	Dark bronze
DS3301-030	MAGNEO ON-GLASS w/ MANET 1125 ML	Mill

Table 1.5.2 MAGNEO ON-GLASS with MANET assembly DS3301-0xx

18	DX3310-010	MAGNEO power cord, 24"	1	1	1
17	DS3304-010	Mode switch-internal (not shown)	1	1	1
16	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
16	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
16	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
15	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
14	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
13	DL3316-010	Instruction, MAGNEO mounting	1	1	1
12	DK3415-010	MAGNEO floor guide	1	1	1
11	DK3311-03G	MAGNEO On-Glass mount kit - 1000 mm	-	-	1
10	DK3311-02G	MAGNEO On-Glass mount kit - 1000 mm	-	1	-
9	DK3311-01G	MAGNEO On-Glass mount kit - 875 mm	1	-	-
8	DK3307-010	Snap-on Edge Cover Kit, MAGNEO	1	1	1
7	DK3306-010	Screwdriver kit (not shown)	1	1	1
6	DK3299-01G	Kit, floor guide	1	1	1
5	DK3293-01G	MANET kit, MAGNEO	1	1	1
4	DK3289-01	End cap set, 62 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3291-01X	Extrusion, cover, 62 mm, 2336	-	-	1
2	DE3291-01X	Extrusion, cover, 62 mm, 2086	-	1	-
2	DE3291-01X	Extrusion, cover, 62 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
	Part / Assembly	Description	-01X QTY	-02X QTY	-03X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.6 MAGNEO ON-GLASS assembly with WOOD

Fig. 1.6.1 MAGNEO ON-GLASS installation with Wood - 875 mm

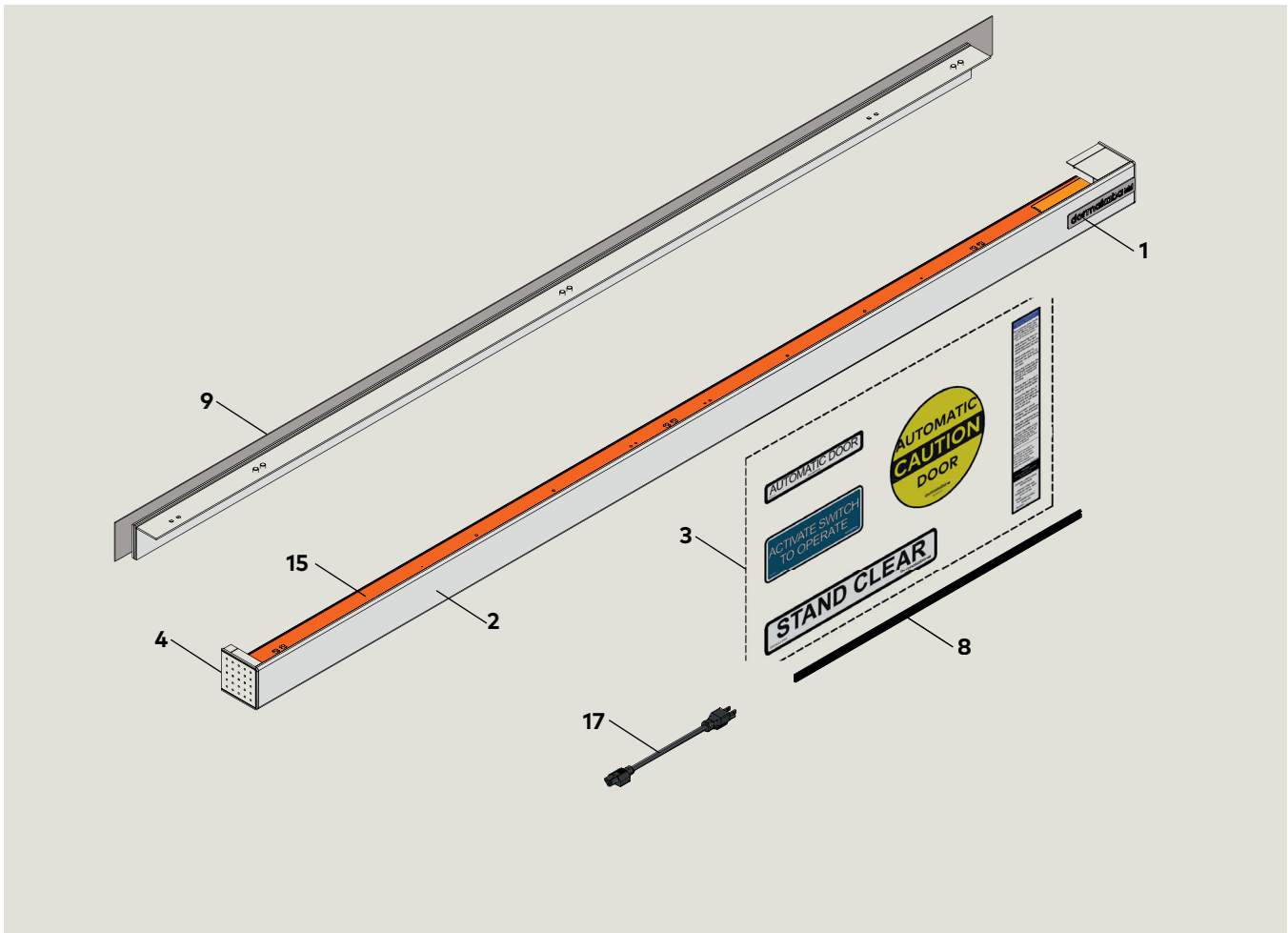


Table 1.6.1 MAGNEO ON-GLASS assembly DS3301-0xx configurations

Part No.	Description	Finish
DS3301-04A	MAGNEO ON-GLASS w/ Wood 875 CL	Clear
DS3301-04B	MAGNEO ON-GLASS w/ Wood 875 DB	Dark bronze
DS3301-040	MAGNEO ON-GLASS w/ Wood 875 ML	Mill
DS3301-05A	MAGNEO ON-GLASS w/ Wood 1000 CL	Clear
DS3301-05B	MAGNEO ON-GLASS w/ Wood 1000 DB	Dark bronze
DS3301-050	MAGNEO ON-GLASS w/ Wood 1000 ML	Mill
DS3301-06A	MAGNEO ON-GLASS w/ Wood 1125 CL	Clear
DS3301-06B	MAGNEO ON-GLASS w/ Wood 1125 DB	Dark bronze
DS3301-060	MAGNEO ON-GLASS w/ Wood 1125 ML	Mill

Table 1.6.2 MAGNEO ON-GLASS with Wood assembly DS3301-0xx

17	DX3310-010	MAGNEO power cord, 24"	1	1	1	
16	DS3304-010	Mode switch-internal (not shown)	1	1	1	
15	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1	
15	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-	
15	DS3290-010	Operator, MAGNEO 875 mm	1	-	-	
14	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1	
13	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1	
12	DL3316-010	Instruction, MAGNEO mounting	1	1	1	
11	DK3311-03G	MAGNEO On-Glass mount kit - 1000 mm	-	-	1	
10	DK3311-02G	MAGNEO On-Glass mount kit - 1000 mm	-	1	-	
9	DK3311-01G	MAGNEO On-Glass mount kit - 875 mm	1	-	-	
8	DK3307-010	Snap-on Edge Cover Kit, MAGNEO	1	1	1	
7	DK3306-010	Screwdriver kit (not shown)	1	1	1	
6	DK3303-010	Wood door floor guide kit	1	1	1	
5	DK3295-010	Wood door mounting and guide rail 1125 mm	1	1	1	
4	DK3289-02	End cap set, 75 mm, MAGNEO	1	1	1	
3	DK0109-001	Kit, Label, MAGNEO	1	1	1	
2	DE3291-01X	Extrusion, cover, 62 mm, 2336	-	-	1	
2	DE3291-01X	Extrusion, cover, 62 mm, 2086	-	1	-	
2	DE3291-01X	Extrusion, cover, 62 mm, 1836	1	-	-	
1	DD4613-030	Logo plate, ESA slide	1	1	1	
Part / Assembly			Description	-04X QTY	-05X QTY	-06X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.7 MAGNEO ON-GLASS assembly with CLAMP

Fig. 1.7.1 MAGNEO ON-GLASS installation with Clamp

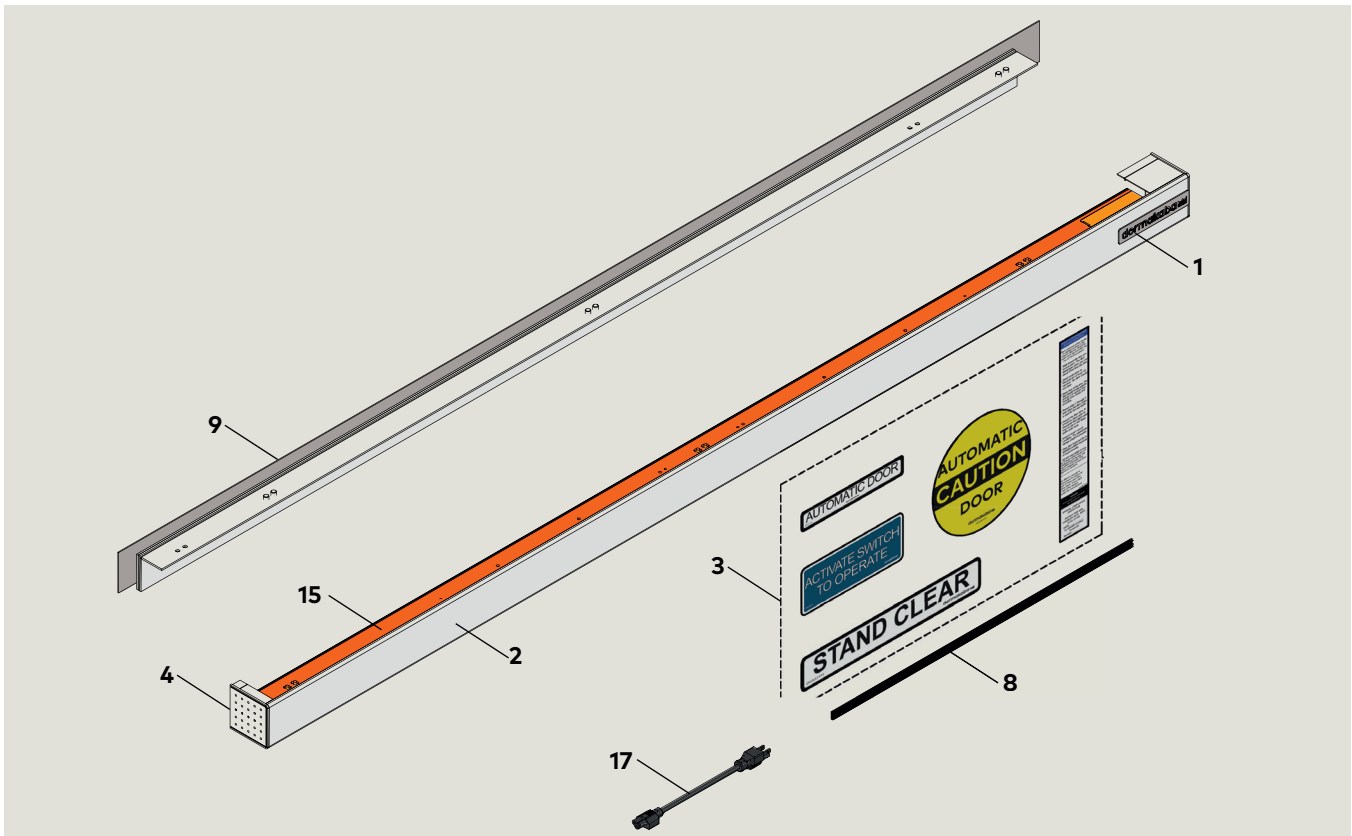


Table 1.7.1 MAGNEO ON-GLASS assembly DS3301-0xx Clamp configurations

Part No.	Description	Finish
DS3301-07A	MAGNEO ON-GLASS w/ Clamp 875 CL	Clear
DS3301-07B	MAGNEO ON-GLASS w/ Clamp 875 DB	Dark bronze
DS3301-070	MAGNEO ON-GLASS w/ Clamp 875 ML	Mill
DS3301-08A	MAGNEO ON-GLASS w/ Clamp 1000 CL	Clear
DS3301-08B	MAGNEO ON-GLASS w/ Clamp 1000 DB	Dark bronze
DS3301-080	MAGNEO ON-GLASS w/ Clamp 1000 ML	Mill
DS3301-09A	MAGNEO ON-GLASS w/ Clamp 1125 CL	Clear
DS3301-09B	MAGNEO ON-GLASS w/ Clamp 1125 DB	Dark bronze
DS3301-090	MAGNEO ON-GLASS w/ Clamp 1125 ML	Mill

Table 1.7.2 MAGNEO ON-GLASS with Clamp assembly DS3301-0xx

19	DX3310-010	MAGNEO power cord, 24"	1	1	1
18	DS3304-010	Mode switch-internal (not shown)	1	1	1
17	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
17	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
17	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
16	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
15	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
14	DL3316-010	Instruction, MAGNEO mounting	1	1	1
13	DK3415-010	MAGNEO floor guide	1	1	1
12	DK3311-03G	MAGNEO On-Glass Mount kit 1125 mm	-	-	1
11	DK3311-02G	MAGNEO On-Glass Mount kit 1000 mm	-	1	-
10	DK3311-01G	MAGNEO On-Glass Mount kit 875 mm	1	-	-
9	DK3307-010	Snap-on edge cover kit, MAGNEO	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3299-01G	Kit, Floor guide	1	1	1
6	DK3294-03_	Clamp rail kit - 1125 mm	-	-	1
5	DK3294-02_	Clamp rail kit - 1000 mm	-	1	-
5	DK3294-01_	Clamp rail kit - 875 mm	1	-	-
4	DK3289-02_	End cap set, 75 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3291-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3291-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
	Part / Assembly	Description	-07X QTY	-08X QTY	-09X QTY



TIPS AND RECOMMENDATIONS

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Reference Para. 1.14 for kit assembly overviews.

1.8 MAGNEO IN-WALL assembly with MANET

Fig. 1.8.1 MAGNEO IN-WALL with MANET installation

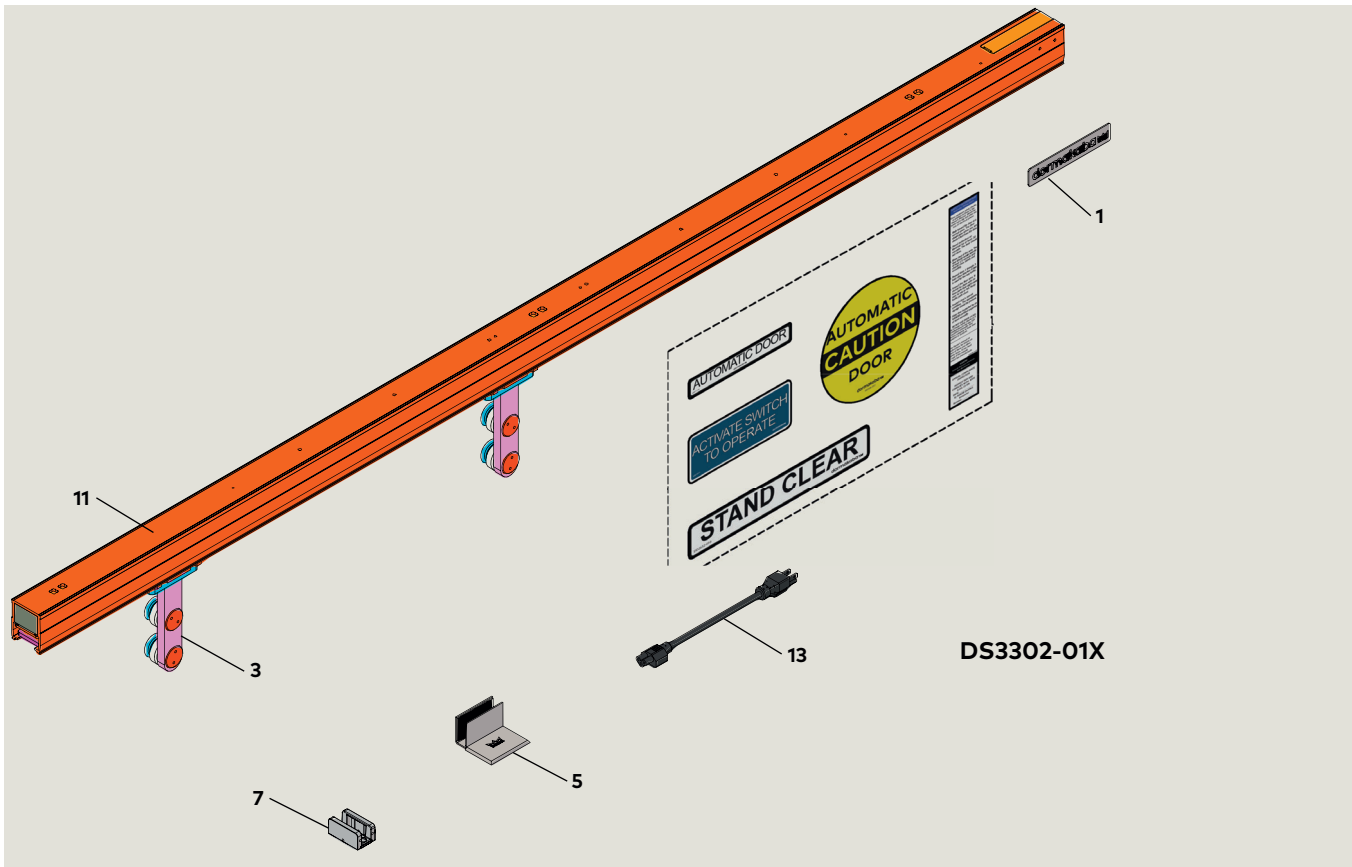


Table 1.8.1 MAGNEO IN-WALL with MANET assembly DS3302-0xx configurations

Part No.	Description	Finish
DS3302-01A	MAGNEO IN-WALL w/ MANET 875 CL	Clear
DS3302-01B	MAGNEO IN-WALL w/ MANET 875 DB	Dark bronze
DS3302-010	MAGNEO IN-WALL w/ MANET 875 ML	Mill
DS3302-02A	MAGNEO IN-WALL w/ MANET 1000 CL	Clear
DS3302-02B	MAGNEO IN-WALL w/ MANET 1000 DB	Dark bronze
DS3302-020	MAGNEO IN-WALL w/ MANET 1000 ML	Mill
DS3302-03A	MAGNEO IN-WALL w/ MANET 1125 CL	Clear
DS3302-03B	MAGNEO IN-WALL w/ MANET 1125 DB	Dark bronze
DS3302-030	MAGNEO IN-WALL w/ MANET 1125 ML	Mill

Table 1.8.2 MAGNEO IN-WALL with MANET assembly DS3302-0xx

13	DX3310-010	MAGNEO power cord, 24"	1	1	1
12	DS3304-010	Mode switch-internal (not shown)	1	1	1
11	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
11	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
11	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
10	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
9	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
8	DL3316-010	Instruction, MAGNEO mounting	1	1	1
7	DK3415-010	MAGNEO floor guide	1	1	1
6	DK3306-010	Screwdriver kit (not shown)	1	1	1
5	DK3299-01G	Kit, Floor guide	1	1	1
4	DK3296	In-wall mounting kit, MAGNEO	1	1	1
3	DK3293-01G	MANET kit, MAGNEO	1	1	1
2	DK0109-001	Kit, Label, MAGNEO	1	1	1
1	DD4613-030	Logo plate, ESA slide	1	1	1
	Part / Assembly	Description	-01X QTY	-02X QTY	-03X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.9 MAGNEO IN-WALL assembly with WOOD

Fig. 1.9.1 MAGNEO IN-WALL with WOOD installation

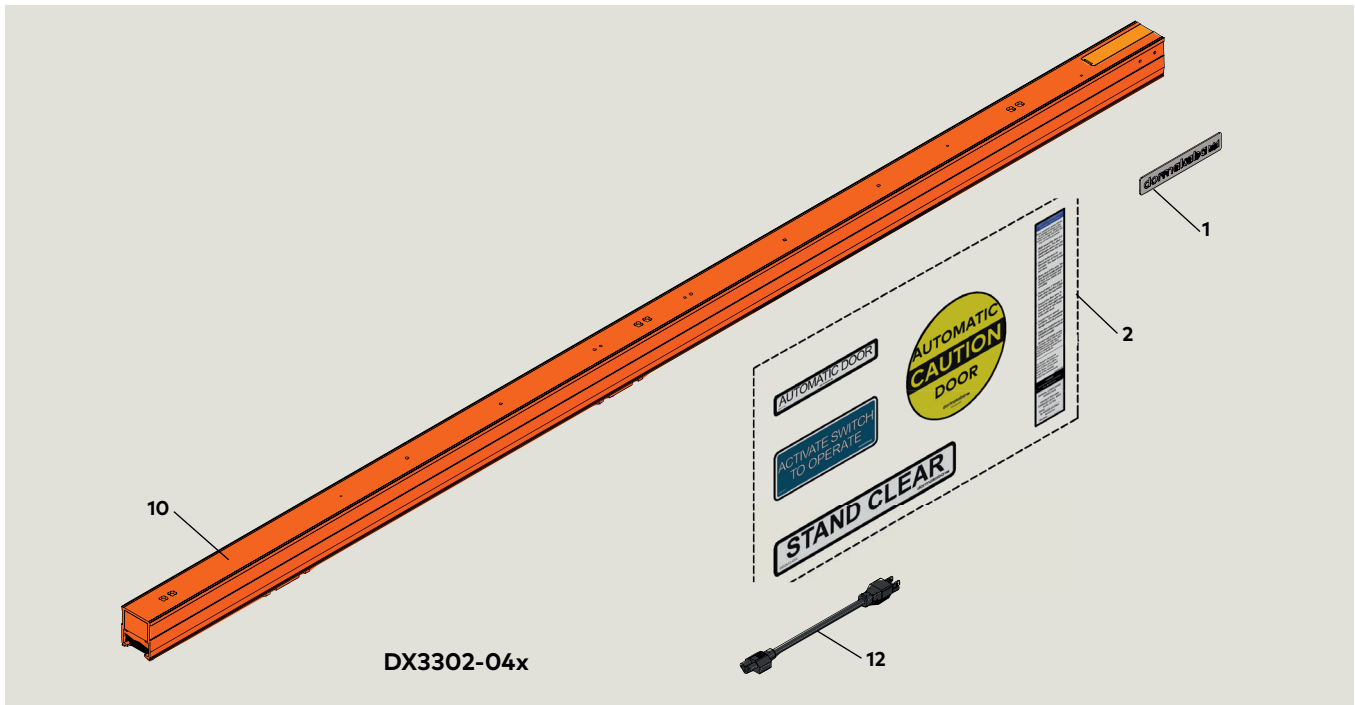


Table 1.9.1 MAGNEO IN-WALL with WOOD assembly DS3302-0xx configurations

Part No.	Description	Finish
DS3302-04A	MAGNEO IN-WALL w/ WOOD 875 CL	Clear
DS3302-04B	MAGNEO IN-WALL w/ WOOD 875 DB	Dark bronze
DS3302-040	MAGNEO IN-WALL w/ WOOD 875 ML	Mill
DS3302-05A	MAGNEO IN-WALL w/ WOOD 1000 CL	Clear
DS3302-05B	MAGNEO IN-WALL w/ WOOD 1000 DB	Dark bronze
DS3302-050	MAGNEO IN-WALL w/ WOOD 1000 ML	Mill
DS3302-06A	MAGNEO IN-WALL w/ WOOD 1125 CL	Clear
DS3302-06B	MAGNEO IN-WALL w/ WOOD 1125 DB	Dark bronze
DS3302-060	MAGNEO IN-WALL w/ WOOD 1125 ML	Mill

Table 1.9.2 MAGNEO IN-WALL with WOOD assembly DS3302-0xx

12	DX3310-010	MAGNEO power cord, 24"	1	1	1
11	DS3304-010	Mode switch-internal (not shown)	1	1	1
10	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
10	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
10	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
9	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
8	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
7	DL3316-010	Instruction, MAGNEO mounting	1	1	1
6	DK3306-010	Screwdriver kit (not shown)	1	1	1
5	DK3303-010	Solid door floor guide kit	1	1	1
4	DK3296	In-wall mounting kit, MAGNEO	1	1	1
3	DK3293-01G	MANET kit, MAGNEO	1	1	1
2	DK0109-001	Kit, Label, MAGNEO	1	1	1
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly			-04X QTY	-05X QTY	-06X QTY
Description					



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.10 MAGNEO IN-WALL assembly with CLAMP

Fig. 1.10.1 MAGNEO IN-WALL with CLAMP installation

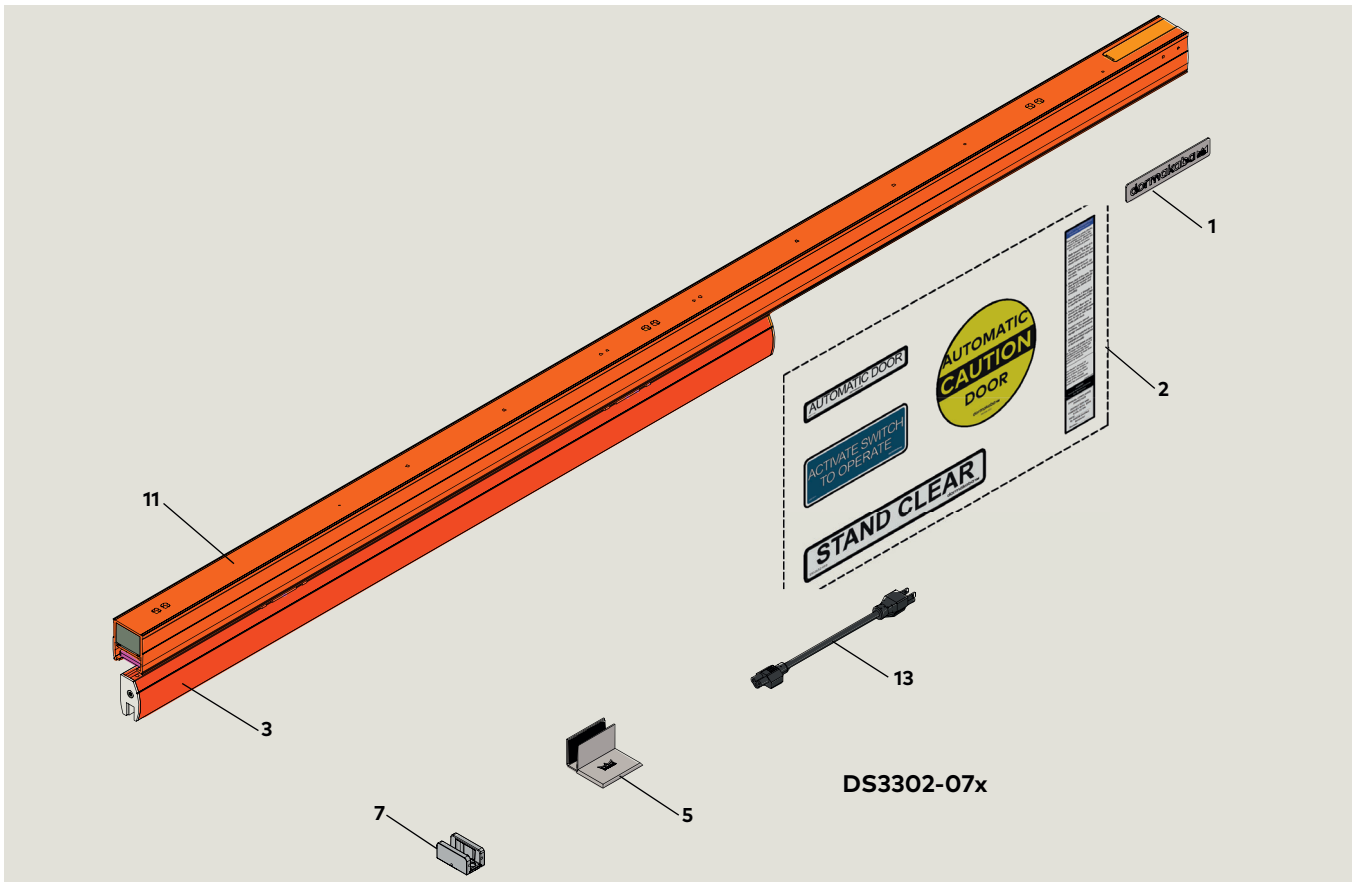


Table 1.10.1 MAGNEO IN-WALL with CLAMP assembly DS3302-0xx configurations

Part No.	Description	Finish
DS3302-07A	MAGNEO IN-WALL w/ CLAMP 875 CL	Clear
DS3302-07B	MAGNEO IN-WALL w/ CLAMP 875 DB	Dark bronze
DS3302-070	MAGNEO IN-WALL w/ CLAMP 875 ML	Mill
DS3302-08A	MAGNEO IN-WALL w/ CLAMP 1000 CL	Clear
DS3302-08B	MAGNEO IN-WALL w/ CLAMP 1000 DB	Dark bronze
DS3302-080	MAGNEO IN-WALL w/ CLAMP 1000 ML	Mill
DS3302-09A	MAGNEO IN-WALL w/ CLAMP 1125 CL	Clear
DS3302-09B	MAGNEO IN-WALL w/ CLAMP 1125 DB	Dark bronze
DS3302-090	MAGNEO IN-WALL w/ CLAMP 1125 ML	Mill

Table 1.10.2 MAGNEO IN-WALL with CLAMP assembly DS3302-0xx

13	DX3310-010	MAGNEO power cord, 24"	1	1	1
12	DS3304-010	Mode switch-internal (not shown)	1	1	1
11	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
11	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
11	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
10	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
9	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
8	DL3316-010	Instruction, MAGNEO mounting	1	1	1
7	DK3415-010	MAGNEO floor guide	1	1	1
6	DK3306-010	Screwdriver kit (not shown)	1	1	1
5	DK3299-01G	Kit, floor guide	1	1	1
4	DK3296	In-wall mounting kit, MAGNEO	1	1	1
3	DK3294-03_	Clamp rail kit - 1125 mm	-	-	1
3	DK3294-02_	Clamp rail kit - 1000 mm	-	1	-
3	DK3294-01_	Clamp rail kit - 875 mm	1	-	-
2	DK0109-001	Kit, Label, MAGNEO	1	1	1
1	DD4613-030	Logo plate, ESA slide	1	1	1
	Part / Assembly	Description	-07X QTY	-08X QTY	-09X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.11 MAGNEO ON-CEILING assembly with MANET

Fig. 1.11.1 MAGNEO ON-CEILING with MANET installation

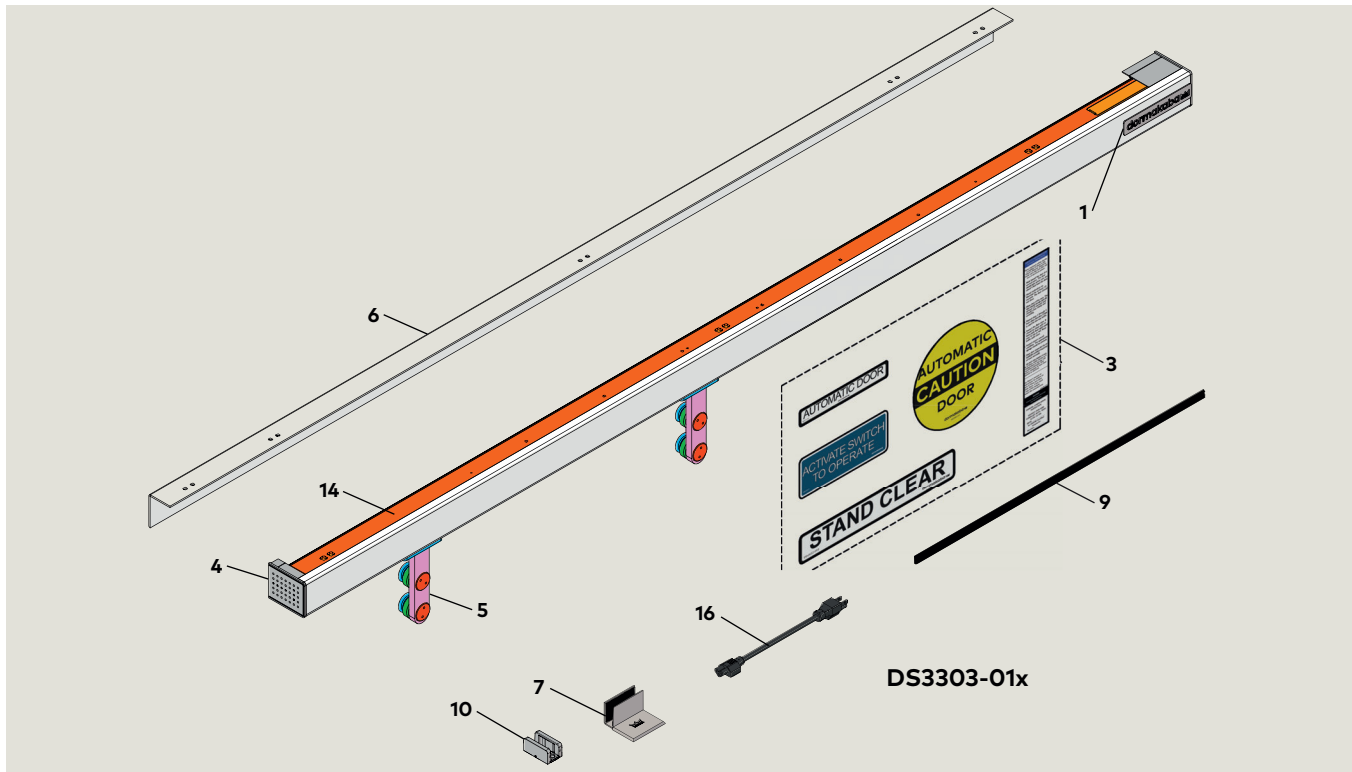


Table 1.11.1 MAGNEO ON-CEILING with MANET assembly DS3303-0xx configurations

Part No.	Description	Finish
DS3303-01A	MAGNEO ON-CEILING w/ MANET 875 CL	Clear
DS3303-01B	MAGNEO ON-CEILING w/ MANET 875 DB	Dark bronze
DS3303-010	MAGNEO ON-CEILING w/ MANET 875 ML	Mill
DS3303-02A	MAGNEO ON-CEILING w/ MANET 1000 CL	Clear
DS3303-02B	MAGNEO ON-CEILING w/ MANET 1000 DB	Dark bronze
DS3303-020	MAGNEO ON-CEILING w/ MANET 1000 ML	Mill
DS3303-03A	MAGNEO ON-CEILING w/ MANET 1125 CL	Clear
DS3303-03B	MAGNEO ON-CEILING w/ MANET 1125 DB	Dark bronze
DS3303-030	MAGNEO ON-CEILING w/ MANET 1125 ML	Mill

Table 1.11.2 MAGNEO ON-CEILING with MANET assembly DS3303-0xx

15	DX3310-010	MAGNEO power cord, 24"	1	1	1
14	DS3304-010	Mode switch-internal (not shown)	1	1	1
13	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
13	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
13	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
12	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
11	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
10	DL3316-010	Instruction, MAGNEO mounting	1	1	1
9	DK3415-010	MAGNEO floor guide	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3299-01G	Kit, Floor guide	1	1	1
6	DK3296	In-wall mounting kit, MAGNEO	1	1	1
5	DK3293-01G	MANET kit, MAGNEO	1	1	1
4	DK3289-01_	End cap set, 62 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3292-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly					
Description			-01X QTY	-02X QTY	-03X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.12 MAGNEO ON-CEILING assembly with WOOD

Fig. 1.12.1 MAGNEO ON-CEILING with WOOD installation

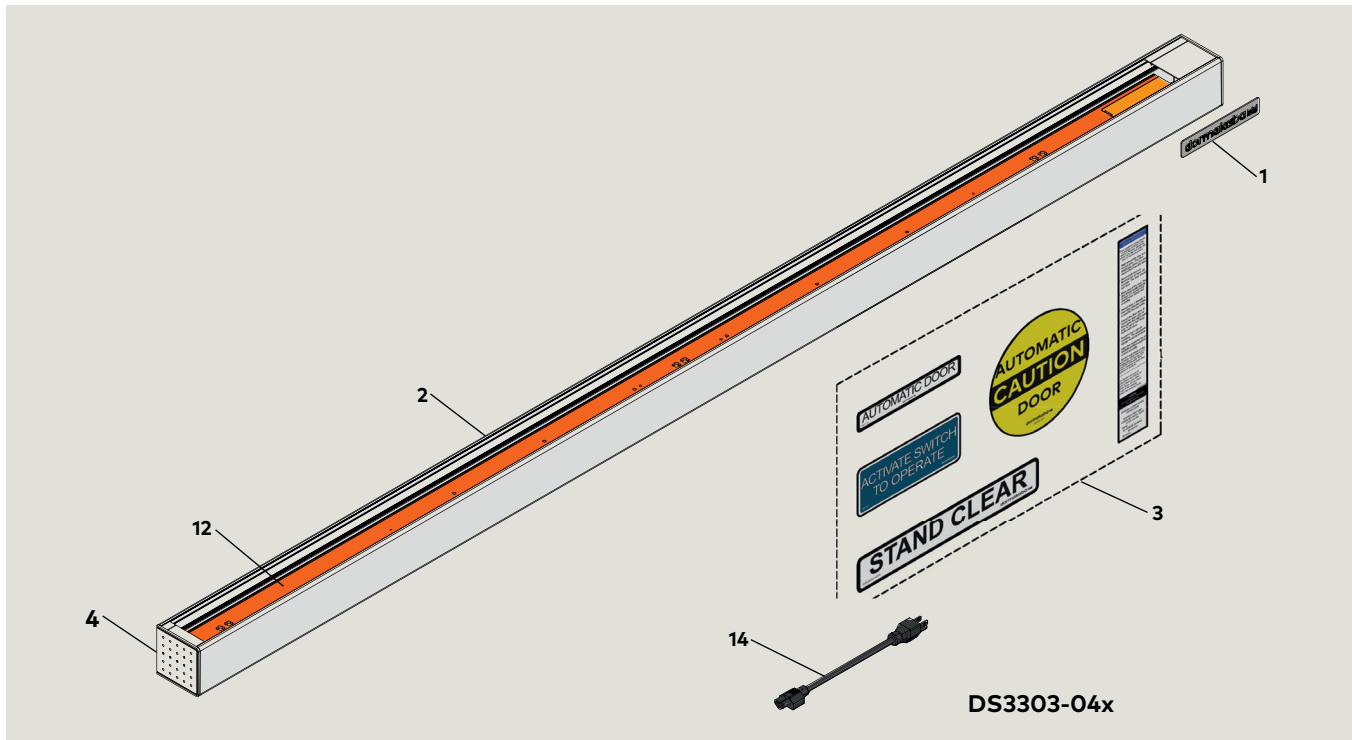


Table 1.12.1 MAGNEO ON-CEILING with WOOD assembly DS3303-0xx configurations

Part No.	Description	Finish
DS3303-04A	MAGNEO ON-CEILING w/ WOOD 875 CL	Clear
DS3303-04B	MAGNEO ON-CEILING w/ WOOD 875 DB	Dark bronze
DS3303-040	MAGNEO ON-CEILING w/ WOOD 875 ML	Mill
DS3303-05A	MAGNEO ON-CEILING w/ WOOD 1000 CL	Clear
DS3303-05B	MAGNEO ON-CEILING w/ WOOD 1000 DB	Dark bronze
DS3303-050	MAGNEO ON-CEILING w/ WOOD 1000 ML	Mill
DS3303-06A	MAGNEO ON-CEILING w/ WOOD 1125 CL	Clear
DS3303-06B	MAGNEO ON-CEILING w/ WOOD 1125 DB	Dark bronze
DS3303-060	MAGNEO ON-CEILING w/ WOOD 1125 ML	Mill

Table 1.12.2 MAGNEO ON-CEILING with WOOD assembly DS3303-0xx

14	DX3310-010	MAGNEO power cord, 24"	1	1	1
13	DS3304-010	Mode switch-internal (not shown)	1	1	1
12	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
12	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
12	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
11	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
10	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
9	DL3316-010	Instruction, MAGNEO mounting	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3303-010	Solid door floor guide kit	1	1	1
6	DK3296	In-wall mounting kit, MAGNEO	1	1	1
5	DK3293-01G	WOOD DOOR mounting and guide rail 1125 mm	1	1	1
4	DK3289-02_	End cap set, 75 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3292-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly			-01X QTY	-02X QTY	-03X QTY
Description					



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.13 MAGNEO ON-CEILING assembly with CLAMP

Fig. 1.13.1 MAGNEO ON-CEILING with CLAMP installation

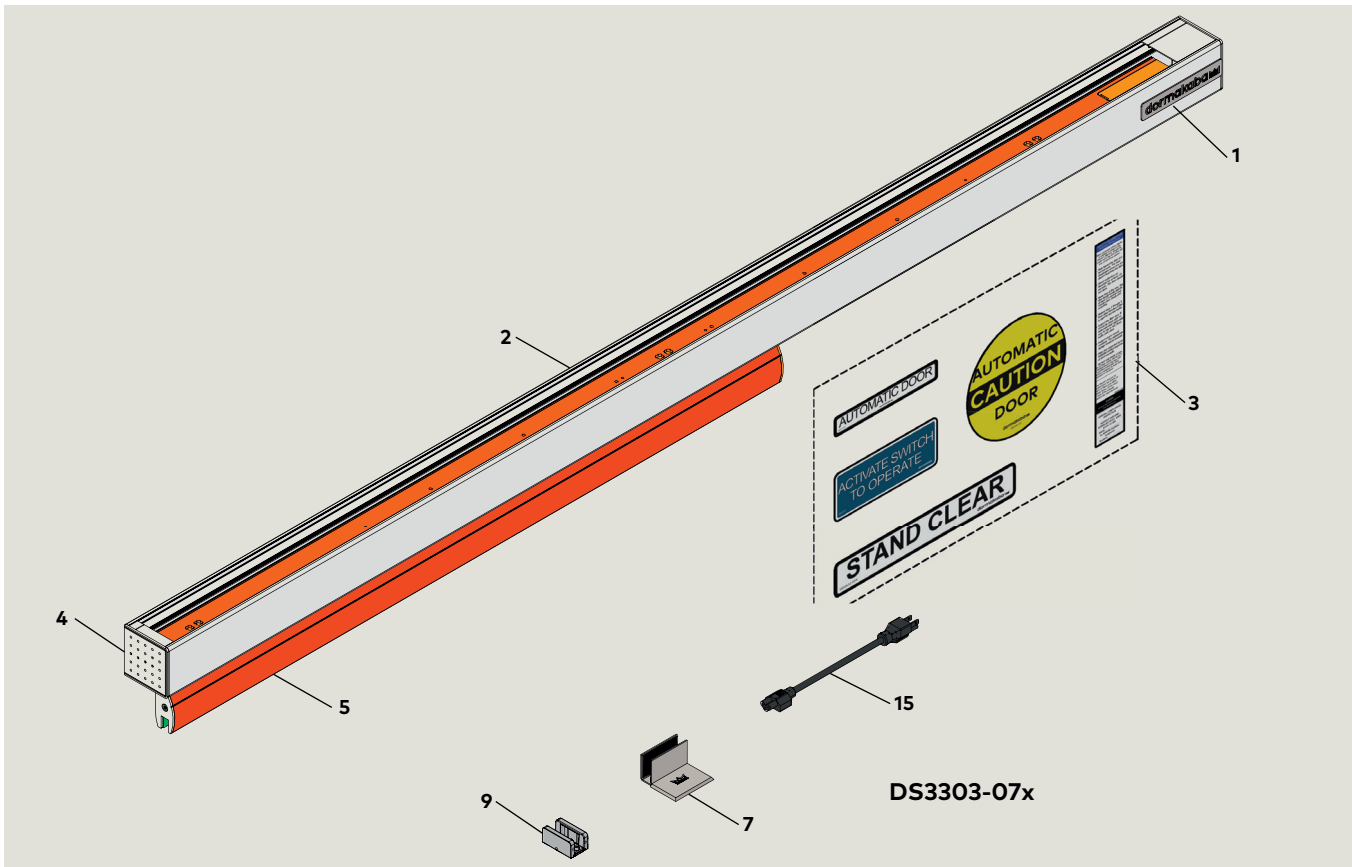


Table 1.13.1 MAGNEO ON-CEILING with CLAMP assembly DS3303-0xx configurations

Part No.	Description	Finish
DS3303-07A	MAGNEO ON-CEILING w/ CLAMP 875 CL	Clear
DS3303-07B	MAGNEO ON-CEILING w/ CLAMP 875 DB	Dark bronze
DS3303-070	MAGNEO ON-CEILING w/ CLAMP 875 ML	Mill
DS3303-08A	MAGNEO ON-CEILING w/ CLAMP 1000 CL	Clear
DS3303-08B	MAGNEO ON-CEILING w/ CLAMP 1000 DB	Dark bronze
DS3303-080	MAGNEO ON-CEILING w/ CLAMP 1000 ML	Mill
DS3303-09A	MAGNEO ON-CEILING w/ CLAMP 1125 CL	Clear
DS3303-09B	MAGNEO ON-CEILING w/ CLAMP 1125 DB	Dark bronze
DS3303-090	MAGNEO ON-CEILING w/ CLAMP 1125 ML	Mill

Table 1.13.2 MAGNEO ON-CEILING with CLAMP assembly DS3303-0xx

15	DX3310-010	MAGNEO power cord, 24"	1	1	1
14	DS3304-010	Mode switch-internal (not shown)	1	1	1
13	DS3290-030	Operator, MAGNEO 1125 mm	-	-	1
13	DS3290-020	Operator, MAGNEO 1000 mm	-	1	-
13	DS3290-010	Operator, MAGNEO 875 mm	1	-	-
12	DP3260-M11	Die Cut 18 7/8 x 17 13/16"	1	1	1
11	DP3260-M10	Box, 14 1/2 x 2 7/8 x 4 1/4"	1	1	1
10	DL3316-010	Instruction, MAGNEO mounting	1	1	1
9	DK3415-010	MAGNEO floor guide	1	1	1
8	DK3306-010	Screwdriver kit (not shown)	1	1	1
7	DK3299-01G	Floor guide kit	1	1	1
6	DK3296	In-wall mounting kit, MAGNEO	1	1	1
5	DK3293-01G	Clamp rail kit - 1125 mm	-	-	1
5	DK3293-01G	Clamp rail kit - 1000 mm	-	1	-
5	DK3293-01G	Clamp rail kit - 875 mm	1	-	-
4	DK3289-02_	End cap set, 75 mm, MAGNEO	1	1	1
3	DK0109-001	Kit, Label, MAGNEO	1	1	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2336	-	-	1
2	DE3292-01X	Extrusion, cover, 75 mm, 2086	-	1	-
2	DE3292-01X	Extrusion, cover, 75 mm, 1836	1	-	-
1	DD4613-030	Logo plate, ESA slide	1	1	1
Part / Assembly			-07X QTY	-08X QTY	-09X QTY



TIPS AND RECOMMENDATIONS

DK_kits.

Reference Para. 1.14 for kit assembly overviews.

1.14 MAGNEO kits

Fig. 1.14.1 DK3293-01x MANET kit - MAGNEO

Ref.:
Para.
1.2
1.5
1.8
1.11

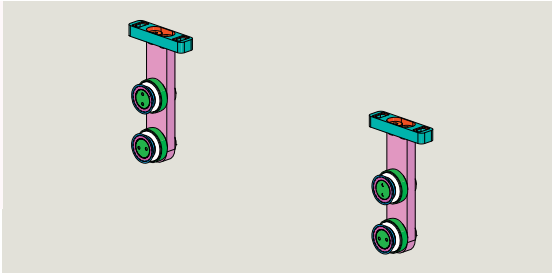


Fig. 1.14.5 DK3298-0x0 MAGNEO ON-WALL shim kit

Ref.:
Para.
8.1.7



Fig. 1.14.2 DK3295-011 MAGNEO Wood door mount and guide rail kit

Ref.:
Para.
1.3
1.6
1.9
1.12



Fig. 1.14.6 DK3299-01_ MAGNEO glass floor guide kit

Ref.:
Para.
1.2
1.5
1.10
1.11
1.13



Fig. 1.14.3 DK3296-010 MAGNEO fixing set, In-wall mounting

Ref.:
Para.
1.8
1.9
1.10



Fig. 1.14.7 DK3303-01_ MAGNEO solid door floor guide kit

Ref.:
Para.
1.3
1.4
1.6
1.9
1.12



Fig. 1.14.4 DK3297-0x0 MAGNEO ON-WALL mount kit

Ref.:
Para.
1.2
1.3
1.4



Fig. 1.14.8 DK3305-01G Electric bolt lock kit with jamb prep

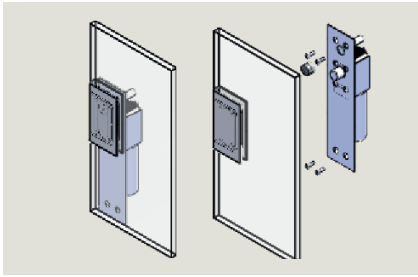


Fig. 1.14.9 DK3305-02G Electric bolt lock kit w/ glass side lite prep

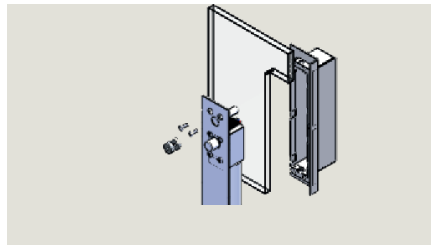


Fig. 1.14.10 DK3305-02G Electric bolt lock kit w/ jamb prep

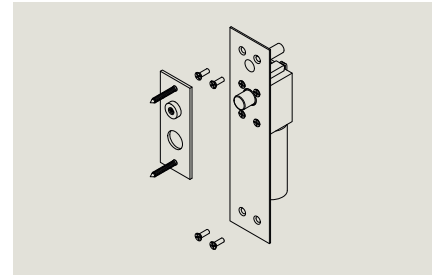


Fig. 1.14.11 DK3306-010 Screwdriver kit

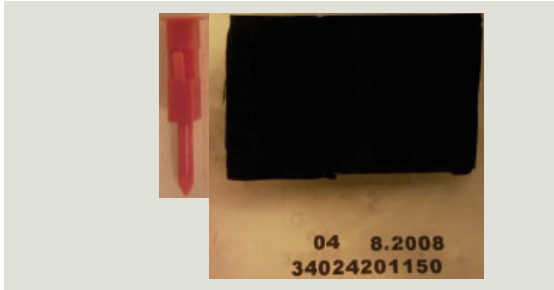


Fig. 1.14.14 DK3309-01G MAGNEO recessed door grip



Fig. 1.14.12 DK3307-010 Snap-on edge covers kit, wall connection

Ref.:
Para.
1.2
1.3
1.4
1.5
1.6
1.7



Fig. 1.14.15 DK3311-0x0 MAGNEO on-glass mount kit

Ref.:
Para.
1.5
1.6
1.7

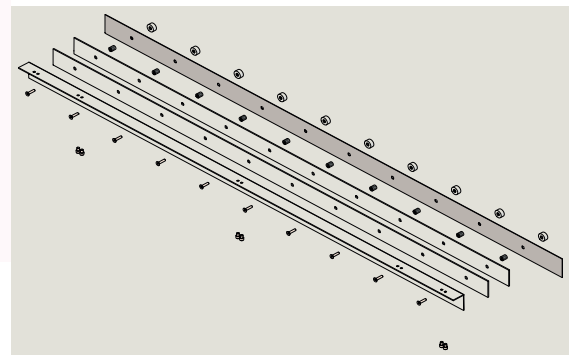


Fig. 1.14.13 DK3308-0xG MAGNEO vertical pull handle kit



Fig. 1.14.16 DK3361-010 MANET thru-hole fitting

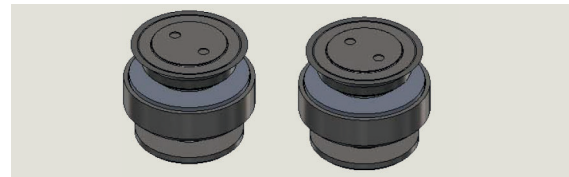
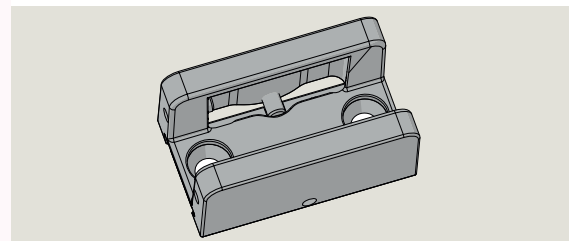


Fig. 1.14.17 DK3415-010 MANET floor guide

Ref.:
Para.
1.2
1.3
1.4
1.10
1.11



2 General information, required tools

2.1 General information

The door must be installed and adjusted properly to ensure its proper operation and safe use.

To install and adjust the door for proper use and safe operation, the installer must carefully read this instruction book before proceeding, then follow its instructions.

The door is designed to be installed only by trained and knowledgeable installers.

The installation technician should be experienced in the installation of the automatic entrance product line.

After installation, the door must be adjusted to conform to dormakaba recommendations and all code requirements. Be sure to carefully study the requirements in these instructions.

After installation and adjustment, the installer's final responsibility is to properly instruct the owner in the safe use of the door. The owner must also be presented with the CS 80 MAGNEO Owner's Manual and to carefully explain how to perform the daily safety check list.

Each step of the installation, adjustment and instructions are important for proper and safe use of the door being installed. If there are any questions about any items contained in these instructions, call the local dormakaba distributor for assistance.

2.2 Required tools

- Tape measure
- Spirit level
- Pencil
- Electric drill
- Masonry drill bit $\varnothing 1/4$ "
- Metal drill bits $\varnothing 1/8$ " and $\varnothing 5/16$ "
- Socket wrench [10 mm]
- Small flat head screwdriver for terminals on control unit.
- Phillips screwdriver for countersunk screws of wall connection.
- Allen (hex) key [4 mm]
- Combination wrench, sizes [10 mm and 13 mm]
- Long nosed pliers for wire connections to terminals.
- Adequate screws and wall anchors for the structures, in case they are not made of brickwork or concrete.

2.2.1 Additional tools for dormakaba MANET attachment.

- Allen (hex) key, [3 mm and 5 mm]

3 Important installation instructions

NOTICE

All installations and service should only be performed by training or authorized persons.

3.1 Warning - To reduce the risk of injury or death:

1. Carefully read and follow all installation instructions.
2. This unit should only be installed in a rough opening capable of providing proper structural support.
3. Always disconnect the 115Vac power supply before servicing.
4. To install and adjust the door for proper and safe operation, the installer must carefully read this instruction manual before proceeding, then follow the instructions.
5. The door is designed to be installed only by trained and knowledgeable installers.
6. The installation technician should be experienced in the installation of automatic door entrances. The technician should know all local code requirements and be familiar with the current ANSI/BHMA standards:
 - A156.10 Standard for Power Operated Doors
 - A156.19 Standard for Power Assist and Low Energy Power Operated Swing Doors.
 - A156.38 Standard for Low Energy Power Operated Sliding and Folding Doors.
7. After installation, the door must be adjusted to conform with dormakaba recommendations and all code requirements. Carefully study the requirements in these instructions.
8. After installation and adjustment, the installer's final responsibility is to properly instruct the owner in the safe use of the door. The owner must also be presented with this manual.
9. Each step of the installation, adjustment and instructions are important for the proper and safe use of the door being installed. If there are any questions about any items contained in these instructions, call the local dormakaba distributor for assistance.
10. Save these instructions for future reference.

3.2 Compliance with Safety Standards.

The door system was designed to the latest operating and safety standards. In order to ensure the continued safe operation of the door, it is important that:

- The door system be maintained in compliance with the standards of the industry, ANSI/BHMA.
- Proper decals and labels be applied, per ANSI/BHMA standards, and maintained on the door. If decals are removed, or cannot be read, request replacements when calling for service.

4 Safety instructions

4.1 Specified standard operation.



WARNING

The CS 80 MAGNEO is only designed to open and close doors.
Do not allow children to play with the CS 80 MAGNEO or rigidly mounted adjustment and/or control devices. Keep remote controls out of reach of children.

4.2 Product-specific characteristics.

The CS 80 MAGNEO is intended for use on interior single panel sliding doors.

The CS 80 MAGNEO is not suitable for application in escape routes, on fire or smoke doors, or on exterior doors.

4.3 Standards, codes and regulations.

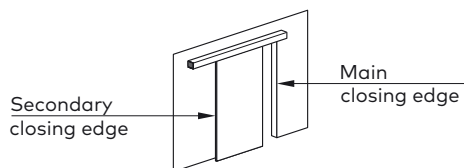
The CS 80 MAGNEO is a low energy product and complies with the kinetic force limitations of ANSI/BHMA A156.10, A156.19 and A156.38 Low Energy Standards.



WARNING

Danger spots at closing edges.

Automatic doors may cause hazards by crushing, shearing, hitting and drawing-in at the different closing edges.



Systems with CS 80 MAGNEO offer the following benefits:

- The system does not have to be equipped with additional protection equipment.
- The application of safety sensors at the closing edges as an additional protection measure is optional and lies in the discretion of the person performing the installation of the door system under consideration of the result of the individual risk assessment.

Special spatial conditions and certain user groups might make it sensible to equip the application with safety sensor even when the system is operated in the Low Energy Mode.

Whether this is required or not has to be assessed with the aid of an individual risk assessment and must be considered during the planning of the system and by the manufacturer, i.e. the party performing the installation of the system. We would therefore ask you to have a look at our risk assessment form, which is available at www.dormakaba.com.

Special requirements regarding the protection of people in need of protection. In case the risk assessment reveals that there is a health risk of injury when the door hits a user in an unacceptable way, additional protection via safety equipment (connection of safety sensors) is required. This is especially necessary when people in need of protection (children, elderly people or disabled use the door.

4.4 Limitation of liability.

The CS 80 MAGNEO must only be used according to its specified standard operation.
dormakaba will not accept any liability for damages resulting from unauthorized modifications, unsafe or improper installation or use of the CS 80 MAGNEO.

4.5 Documentation

This document contains important information for the safe installation of the system. Read these instructions thoroughly before mounting, installing and use of the CS 80 MAGNEO.

Please keep this documentation for later reference.



WARNING

Using control elements, making adjustments or performing procedures that are not described herein might cause electric shocks, danger caused by electric voltage/current and/or dangers due to mechanical incidents.



WARNING

For personal safety, it is important to follow the instructions contained in this document. An incorrectly performed installation of the system might cause serious injuries.

4.6 General information regarding system installation.



WARNING

The CS 80 MAGNEO must be disconnected from the power supply when performing installation or maintenance work. Remove the power plug, or in case of permanent wiring, switch off circuit breaker.

- Secure the working area against unauthorized access of other persons. Falling items or tools might cause injuries.
- The mounting method and mounting equipment, i.e. screws and wall plugs, must be adequate with regard to structural conditions (concrete, wood, plaster board, etc.).
- As soon as the screws of the end stop have been loosened, both the end stop and the carrier could fall out of the operator. Therefore the operator should always held level.
- No water or liquids must drop onto or into the CS 80 MAGNEO.
- To avoid electric shocks, never insert metal objects inside the openings of the CS 80 MAGNEO.

- To avoid injuries, never put your hand inside the CS 80 MAGNEO.
- Lay the power cord so that no one can trip over the cable or unplug it by mistake.
- Do not operate the CS 80 MAGNEO when the power cord is damaged.
- Always pull at the plug and never at the cable when unplugging the power supply.
- Only operate the power switch at the header profile while the door is not in motion or is permanently open.
- No pushbuttons / switches, pictures etc. must be located within the door's movement range. If required, baseboards may have to be removed.
- If a switch is used for activation of the door it must be located so that door operation by the person operating the switch.
- Following the successful installation of the system, check the settings as well as the CS 80 MAGNEO and the safety devices for proper functioning.
- The installation described in the instructions is an example. Structural or local conditions may require modifications to the instructions.
- Permanent wiring is to be used as required by local codes.





4.7 Residual risks.

Automatic doors might cause hazards by crushing, shearing, hitting and drawing-in. Depending on the structural conditions, the door version and the safety equipment, residual risks cannot be excluded.

CS 80 MAGNEO - Awarded safety.



Developed according to the latest safety standards:

- + Low-energy mode in accordance with ANSI/BHMA standards
- +  Tested Safety
- +  -mark
- +  -mark (UL 325/CSA 22.2)
- +  -mark (Part 15.105 (a))

5 Functional Characteristics

5.1 General information.

The CS 80 MAGNEO is a single-panel, Low Energy sliding door operator for small and light interior doors with an admissible weight of from 44 lb [20 kg] to 175 lb [79.4 kg] per door panel.

The opening and closing speed respectively depend on the weight of the door panel and can be adjusted by a potentiometer (infinitely variable).

5.2 Commissioning

- During the first commissioning of the operator, the installer has to perform a learning cycle according to the commissioning instructions.
- When the installer connects the system to the power supply, the light indicator at the operator will blink green and the operator has no function.
- The door can be open and closed manually.
- Following the learning cycle the light indicator goes on steady green and the operator is ready for operation.

5.3 Energy modes (Maximum force limited).

Using a sealed switch (located inside the operator), the system can be switched from Low-energy mode to Full-energy mode.

Low-energy mode.

The ANSI/BHMA A156.19 low-energy standard states the energy with which a swing door panel hits an object must be limited.

The CS 80 MAGNEO operator moves the sliding panel at a low speed according to the ANSI/BHMA A156.19 standard.

The potentiometer (located inside the operator) can only be used to reduce this calculated speed.

Full-energy mode.

The forces are limited in this mode as well. The door speed is infinitely variable (within limits) using the potentiometer (located inside the operator).

Even though the door may open at a fast speed, the closing cycle always remains in the Low-energy mode.

5.4 Operation modes.

OFF	The operator is switched off. The door can be manually moved.
AUTOMATIC	When the system is activated by pushbutton, radio remote control or other similar devices, the operator opens the door and closes after expiration of the adjusted hold-open time.
PERMANENT OPEN	The operator opens the door and holds it in the "open" position until it receives another signal.

When the system is delivered, the CS 80 MAGNEO is adjusted to AUTOMATIC mode.



TIPS AND RECOMMENDATIONS

An external Mode switch is required to change the operation mode.

5.5 Functions in AUTOMATIC Mode.

Push & Go

As soon as the door is moved manually into the opening direction by approximately 3/8" [10 mm], the operator will automatically move the door panel further in the desired direction. The door closes automatically.

Permanent Open by double-click.

A double-click on the pushbutton (activate the pushbutton twice in quick succession) will open the door.

When the pushbutton is pushed for a second time or the door panel is manually moved, the door panel will close.

Express-Function

The door can be moved manually in its driving direction and there will be no extra resistance. However, when the maximum speed is exceeded, the driving resistance will increase in line with the speed by which it is exceeded. As soon as the user has released the door panel, the operator will softly slow it down to maximum speed. This function is activated during all opening and closing cycles.

5.6 Safety functions

Static forces in Low-Energy mode.

The system does not exceed a value of 15 lbf [67 N] during opening and closing cycles.

Opening cycle

As soon as the door hits an obstacle during an opening cycle, it will immediately stop and remain in its position for 3 seconds. Then the operator will try to continue the opening cycle.

If the door hits the obstacle three times during an opening cycle, it will close.

Closing cycle

When the door panel hits an obstacle while closing, it will immediately stop and perform an opening cycle.

5.7 Safety sensors

Sensors can be installed to detect obstacles. An automatic sensor test can be activated or deactivated via the DIP switches located inside the operator.

Opening cycle.

The door will stop immediately when the sensor detects an obstacle during an opening cycle and will continue the cycle as soon as the object has been removed. In case the obstacle has not been removed, the door will close on completion of the adjusted hold-open time.

Closing cycle.

The door will stop immediately and reverse when the sensor detects an obstacle during the closing cycle.

Door in closed position.

This function is not activated while the door is in the closed position (then the sensor is deactivated).

6 System overview

Fig. 6.1 CS 80 MAGNEO installation

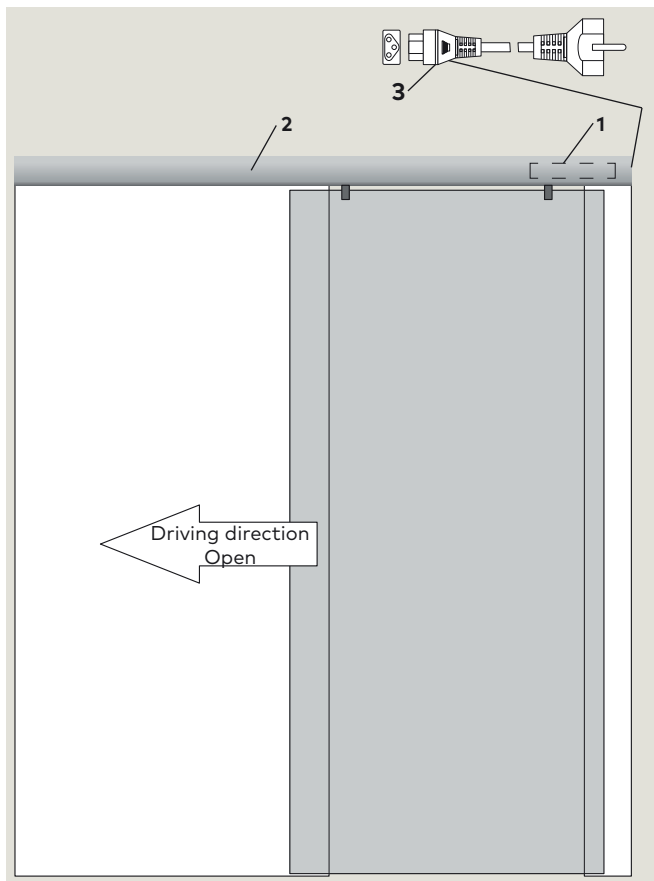


Table 6.1 CS 80 MAGNEO

Part / Assembly	Description
1	Control unit and connection terminals for external accessories
2	CS 80 MAGNEO
3	Power cord (Option)

Power cord (Option)

To reduce risk of electric shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit in a grounding type outlet. If the plug does not fit in the outlet, contact a qualified electrician to install the proper outlet.

Do not modify the plug in any way.

Fig. 6.2 CS 80 MAGNEO control unit

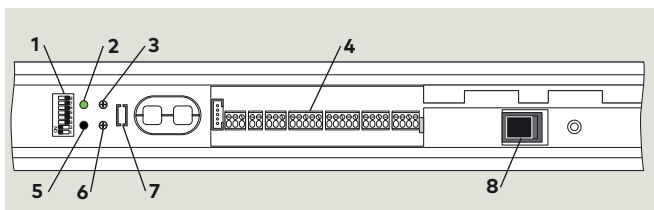


Table 6.2 CS 80 MAGNEO control unit

Part / Assembly	Description
1	DIP switch
2	LED indicator (green, yellow, red)
3	Potentiometer, hold-open time
4	Terminals, connections for external accessories
5	Reset button, Start learning cycle
6	Potentiometer, speed adjustment
7	Energy mode switch (Full energy/Low energy) (located below the seal)
8	Power switch

7 Before mounting

7.1 Basic requirements.



WARNING

Work on electrical equipment must only be performed by properly qualified personnel (electricians).

- The floor must be level.
- Glass door panels must be made of safety glass.
- The connection cables for external accessories (program switch, etc.) must be located in the close range of the operator before starting the system installation.



WARNING

Permanent power supply installation (the cable comes directly out of the wall). Ensure that the power supply is de-energized during the installation.



WARNING

The power supply line must have appropriate circuit breaker protection in compliance with local codes. Use only copper conductors for permanent connection, or use dormakaba optional power cord (refer to Para. 8.1.9 and 9.1.9 for additional details).

7.2 Opening direction.



TIPS AND RECOMMENDATIONS

The operator connections are always located on the side where the door is when it is in the closed position.

The operator is symmetrical and can be turned as required for the installation. The installation instructions show the system with the connection on the right side. For left hand, reverse the orientation of the operator.

7.3 Assistance

If additional accessories are required, or if there are technical questions, please contact your local dormakaba USA, Inc. distributor.

7.4 Optional power cord connection.



WARNING

Use only dormakaba DX3310-010 18" [457 mm] (NEMA 5-15 compatible) UL listed power cord.



WARNING

The flexible power cord should not be routed through doorways, window openings, walls, ceilings, floor, as examples. The cord should also not be attached to the building structure or concealed behind walls. Make sure the power cord does not become entrapped in any moving parts of the operator, door or system.

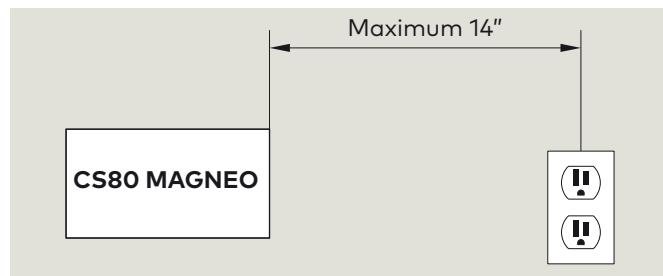
7.5 Receptacle installation for optional power cord.



TIPS AND RECOMMENDATIONS

When installing the receptacle, the power cord plug should be able to be reached by hand (Max. 14" distance).

Fig. 7.1 Optional power cord receptacle installation.



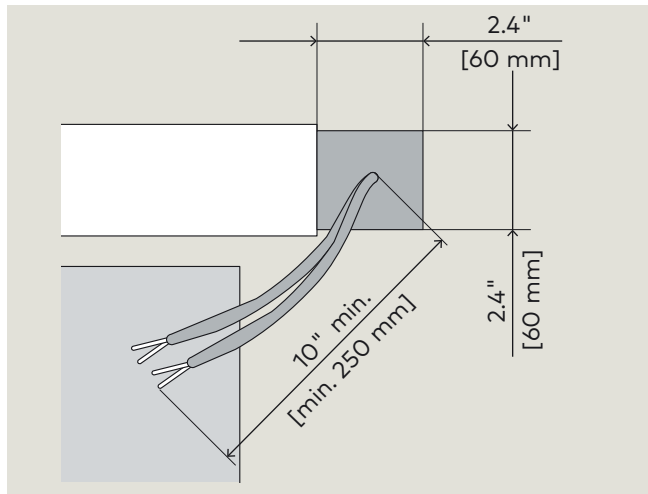
7.6 Connection cables, on-wall mounting (Fig. 7.2). If connection cables that are exiting the wall are to be concealed, (only possible with permanent power supply) the cables must come out of the wall within an area of 2.4" x 2.4" on the side where the connections to the operator are located.



TIPS AND RECOMMENDATIONS

In order to facilitate the cabling inside the operator, all cables should have a minimum length of 10".

Fig. 7.2 Cable wall exit area, Minimum cable length



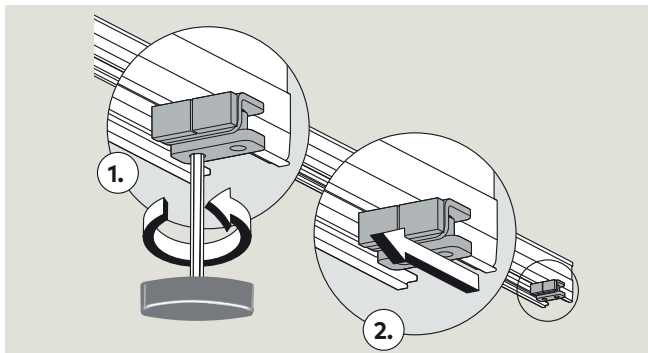
7.5 Installation with permanent power supply. The internal power supply socket must be removed. Proceed as follows (Fig. 7.3).

1. Loosen the screws at end stop.
2. Move end stop to center of the system.

CAUTION

Do not remove or tighten the end stop.

Fig. 7.3 Move end stop to center of system



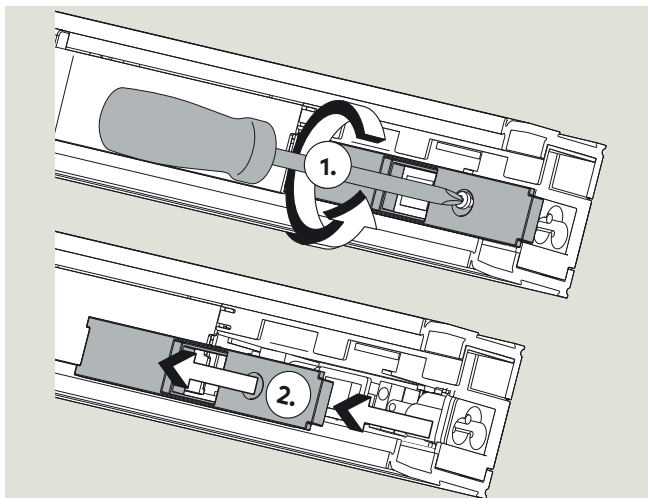
7.7 Remove the power supply housing cover (Fig. 7.4).
 1. Loosen screw in cover of power supply housing.
 2. Remove cover (on the side where the connections are located).



TIPS AND RECOMMENDATIONS

Keep the cover and screw in a safe place. They will be reinstalled later in the installation.

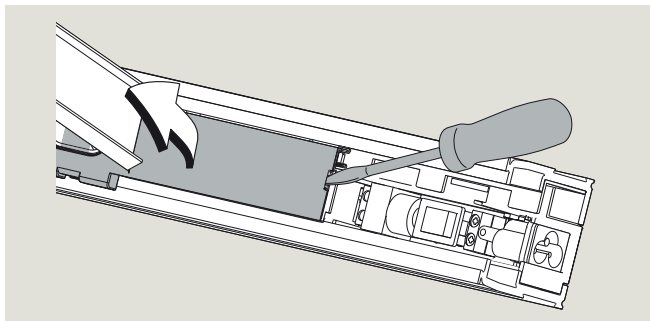
Fig. 7.4 Remove power supply housing cover



7.8 Open cover to control unit housing (Fig. 7.5).

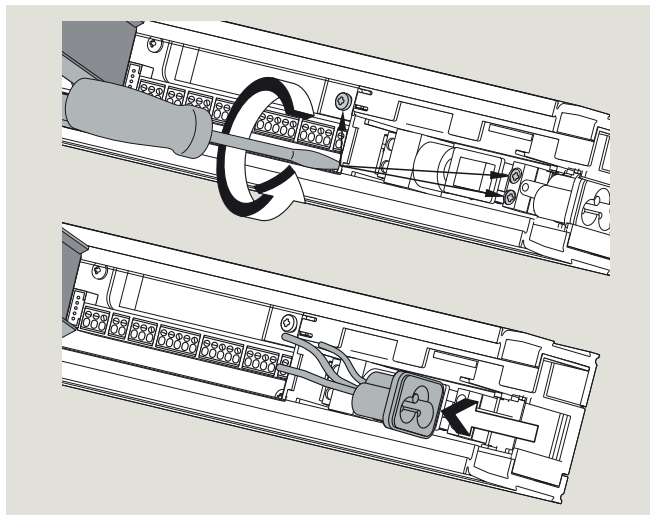
1. Carefully open cover of control unit housing by levering it out with tip of a flat head screwdriver.

Fig. 7.5 Control unit cover opening.

**7.9 Remove internal socket.**

1. Loosen screws of the connection terminals and remove the internal shockproof socket.

Fig. 7.6 Socket removal

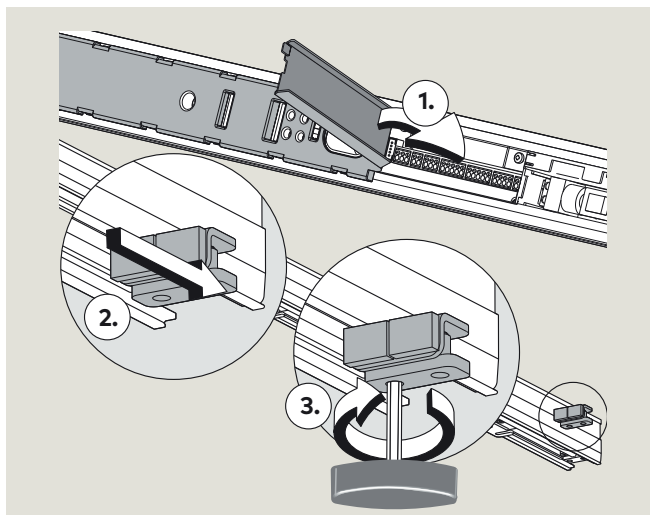
**7.10 Close cover of control unit housing, secure end stop** (Fig 7.7).

1. Close cover to the control unit.
2. Move the end stop to the end of the channel.
3. Tighten end stop screws.

CAUTION

The end stop must overlap.

Fig. 7.7 Control unit cover closing, securing end stop



8 Installation instructions for on-wall mounting

8.1 Mounting procedure

8.1.1 Mounting procedure.

If there is a door frame, the angle bracket must be shimmed with a shim plate (Para. 8.1.7).

1. Auxiliary lines for positioning purposes (Para. 8.1.2).
- 2.1 Installation without shim plate (Para. 8.1.5).
- 2.2 Installation with shim plate (Para 8.1.7).

8.1.2 Positioning guide.

1. For installation without shim plate mark the center of passage on the wall.
2. For installation with shim plate mark center of passage on the wall.
 - Refer to Table 8.1.1 for required **M** dimension for the operator reference line.
 - L corresponds to operator length.
3. Mark the reference line (Fig. 8.1.3).
 - Always mark the reference line on the side of the main closing edge (Fig. 8.1.4).

Table 8.1.1 Max. passage width, C, L and M dimensions

**	34.4" [875]	39.4" [1000]	44.3" [1125]
C	22.7" [575]	27.6" [700]	32.5" [825]
L	68.9" [1750]	78.7" [2000]	88.6" [2250]
M	17.2" [437.5]	19.7" [500]	22.1" [562.5]

** Maximum passage width.

TIPS AND RECOMMENDATIONS

In case the door panel is not positioned in the center of the passage, the bracket or shim plate must be shifted by the desired dimension.

Fig. 8.1.3 Reference line

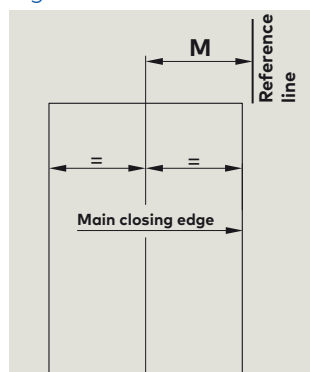


Fig. 8.1.4 Main closing edge

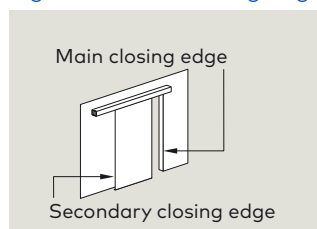


Fig. 8.1.1 Glass door panels with MANET single-point attachment

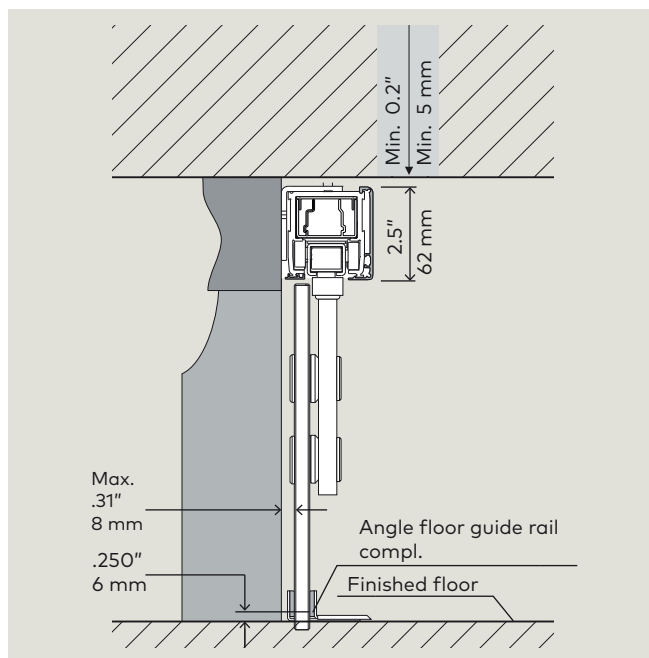
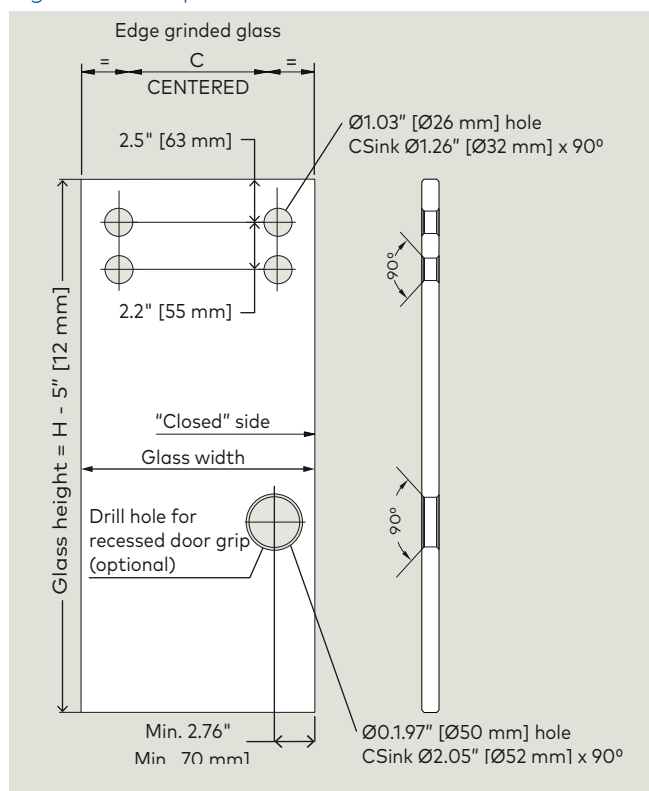


Fig. 8.1.2 Door panel information



8.1.3 Door panel X measurement.

1. Measure dimension X from floor level.

CAUTION

Dimension **X** must be measured at the highest point of the floor within the movement range of the system.

CAUTION

The distance between the bottom edge of the door panel and the floor should amount to 1/4" [6 mm], however it must not exceed 3/16" [8 mm].

NOTICE

Dimension X

- When using a Wooden door panel:
X = door panel height + 3" [78 mm].
- When using a glass clamping rail:
X = door panel height + 4 1/2" [114 mm].
- When using dormakaba MANET single point fixings:
X = door panel height + 2 29/32" [74 mm].

8.1.4 Mark upper edge of attachment bracket.

1. Mark the upper edge of the attachment bracket onto the wall.
 - The "closed" position is always located on the side where connections are made.
 - Dimension **L** (length of operator and attachment bracket) is measured without end caps.

Fig. 8.1.5 X measurement

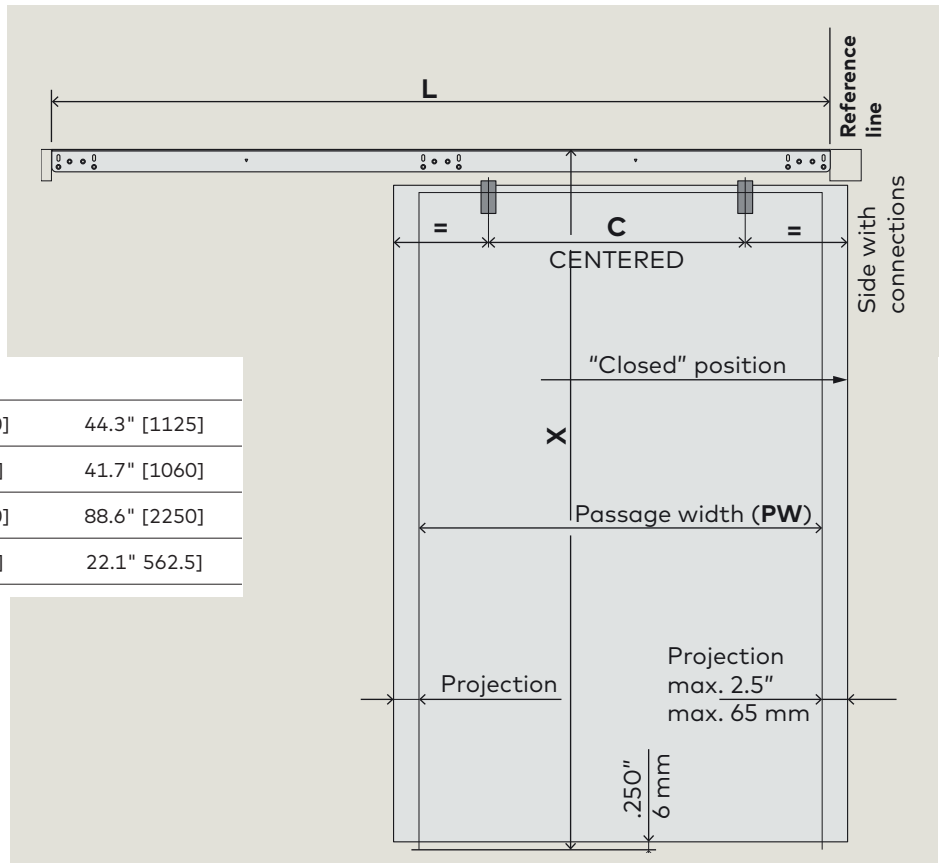


Table 8.1.2 PW, L and C dimensions

**	34.4" [875]	39.4" [1000]	44.3" [1125]
PW	31.9" [810]	36.8" [935]	41.7" [1060]
L	68.9" [1750]	78.7" [2000]	88.6" [2250]
C	17.2" [437.5]	19.7" [500]	22.1" 562.5]

** Maximum passage width.

8.1.5 Mounting with angle bracket.

CAUTION

Before drilling any holes, make sure that there are no cables and/or pipes in the angle bracket installation location.

1. Position angle bracket onto center line.
 - Insure that the bottom vertex of the triangle is located exactly on the center line (Fig. 8.1.6).
2. Align angle bracket so that it is level.
3. Secure angle bracket with screws (one screw per one oblong hole on each side).

CAUTION

When installing the angle bracket, use adequate wall plugs and screws depending on the prevailing structure.

- The supplied screws and wall plugs are suitable for concrete and brickwork.

4. Recheck angle bracket for exact positioning.
5. Drill additional holes through the drill holes in the angle bracket and secure the bracket with a minimum of 12 screws (Fig. 8.1.7).

Fig. 8.1.6 Mounting bracket positioned onto centerline

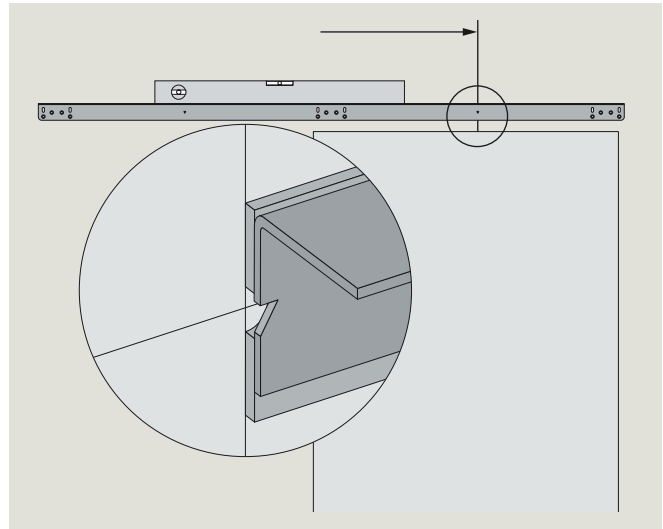
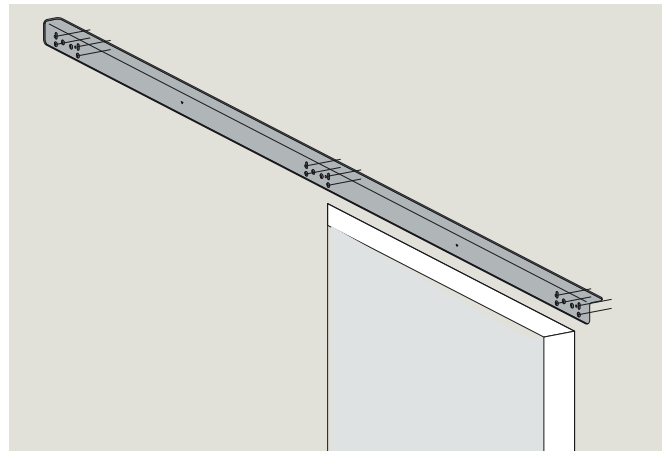


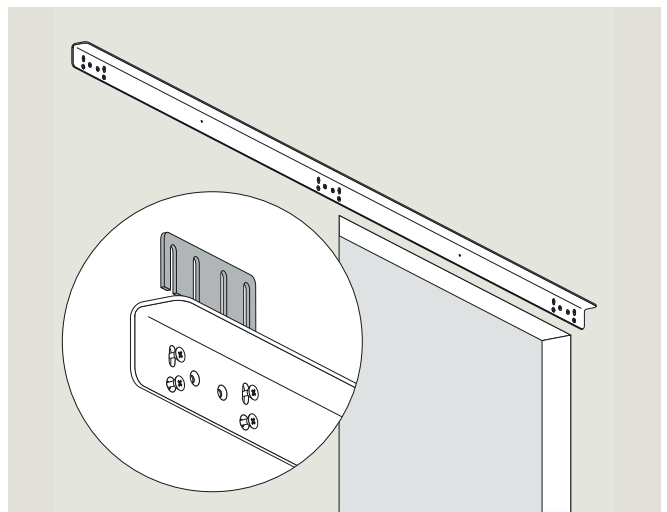
Fig. 8.1.7 Angle bracket secured with minimum of 12 screws



8.1.6 Uneven walls.

1. In case of uneven walls the bracket must be shimmed so that it does not bend.
2. Use the enclosed shims (in different sizes) for this purpose (Fig. 8.1.8).

Fig. 8.1.8 Shimming mounting bracket



8.1.7 Mounting with shim plate.

1. Position shim plate at reference line (Fig. 8.1.9).
2. Calculate dimension from floor to upper edge of shim plate as follows:
 - Door panel height + 3.1" [78 mm].
 - When using dormakaba MANET single point attachments:
Door panel height + 2.9" [74 mm].
3. Align shim plate so that it is level and mark the drill holes.

CAUTION

Before drilling any holes, make sure that there are no cables and/or pipes in the attachment bracket installation location.

4. Drill the marked holes and attach the shim plate.

CAUTION

When installing the attachment bracket, use adequate wall plugs and screws depending on the prevailing structure.

- The supplied screws and wall plugs are suitable for concrete and brickwork.

CAUTION

The load-bearing capacity of the shim plate must be a minimum of 528 lb [239.5 kg].

8.1.8 Door frame thicker than 3/8" [9.5 mm].

Distance plates (enclosed) must be installed between the frame and the shim plate so that the shim plate is flush with the frame.

1. Use 12 screws to attach the distance plates to the shim plate (Fig. 8.1.11).

Fig. 8.1.9 Positioning shim plate

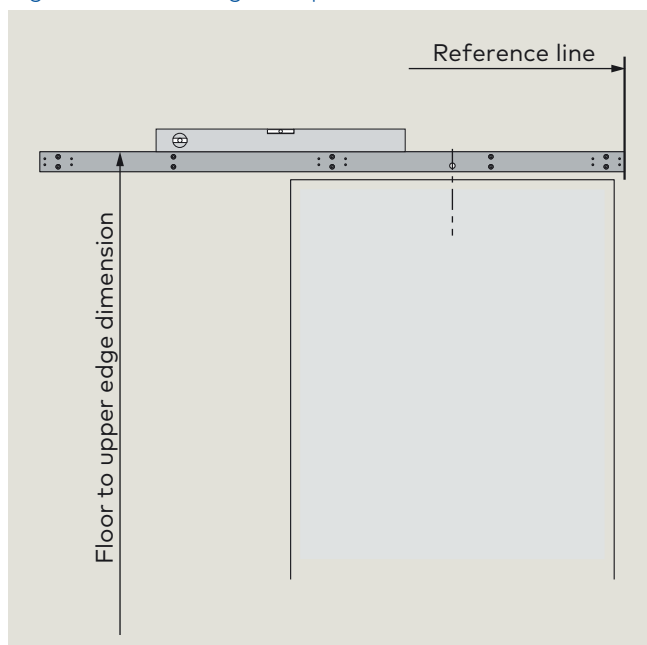


Fig. 8.1.10 Attachment of shim plate

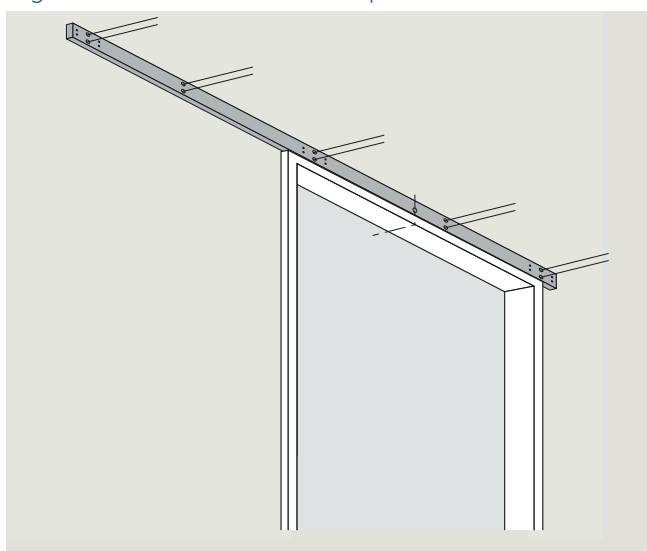
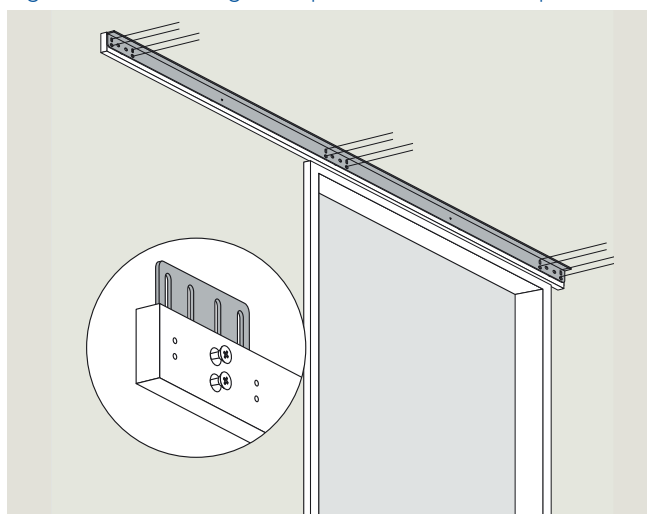


Fig. 8.1.11 Shimming shim plate with distance plates



8.1.9 Mount and secure the operator to the attachment bracket.

1. Adhere 3 pieces of felt at equal distances onto the attachment bracket.
2. The openings of the door panel suspension must point to the front.
3. When using MANET attachments, the door panel suspensions must be removed.
4. Fasten the operator below the attachment bracket with 6 hexagon screws (lock screws)
Torque: 5.9 ft lb [8 Nm].

8.1.10 Connection of 120 Vac permanent power supply.



WARNING

Work on electrical equipment must only be performed by properly qualified personnel (electricians).
Before starting installation, make sure that the 120 Vac power supply is OFF.

1. Loosen the end stop and move it to the center of the system (Ref. Chapter 7, Fig. 7.3).
2. Cut the wires to length, strip the wire insulation (1/4" [6 mm]).
3. Connect L1 and N to the terminals of the power supply.
4. Reference Para.8.1.12 for grounding wire connection.

8.1.11 Conduit connection.

When using a conduit connection, use the supplied conduit cover, mounting plate and Phillips screws.

1. Attach mounting plate to operator with 2 screws.
2. Route the wires through the mounting plate and connect to the operator.
3. Fold the conduit cover as shown.
4. Secure conduit cover to mounting plate with remaining screw.

8.1.12 Grounding wire (PE) connection to power supply.

1. Using a screwdriver, open the control unit housing cover.
2. Route the grounding wire through the operator control unit housing and connect it to the grounding terminal (PE).



WARNING

The grounding wire must be connected to the PE terminal.

8.1.13 Connection of external accessories.

1. Connect all external accessories except for safety sensors. Refer to cable channel instructions.

Fig. 8.112 Mounting operator to attachment bracket

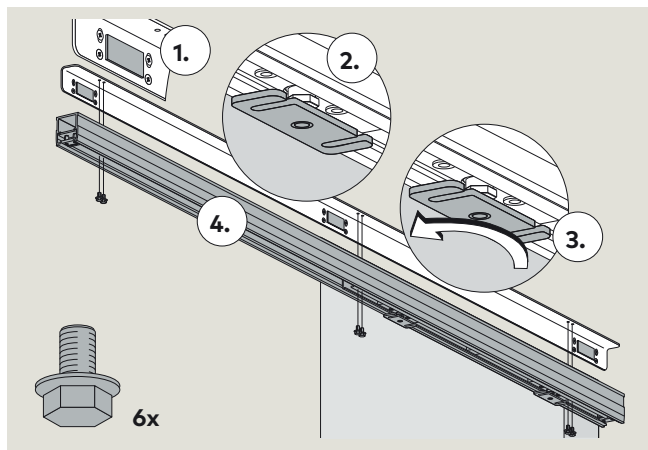


Fig. 8.113 Connection of 120 Vac permanent power supply

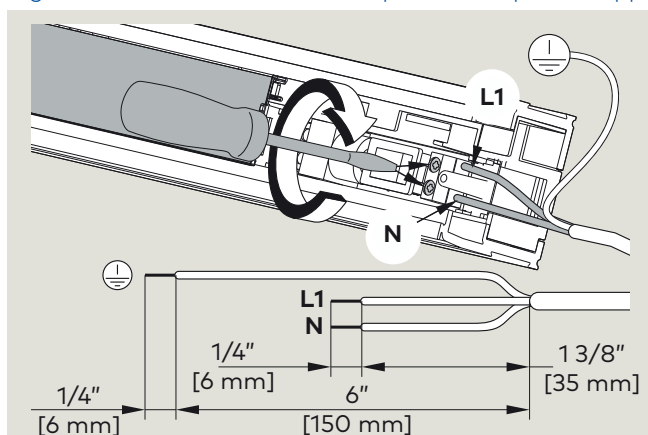


Fig. 8.114 Conduit connection

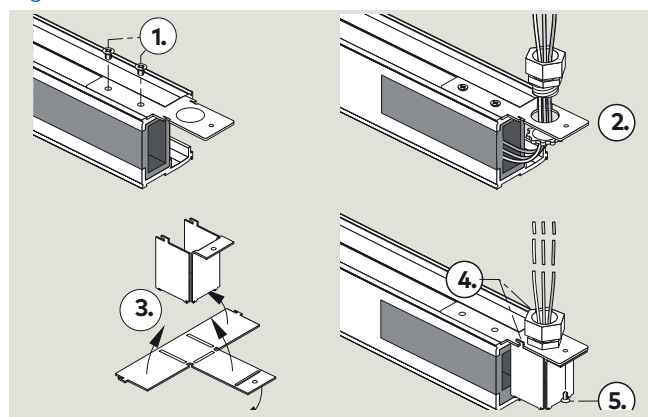
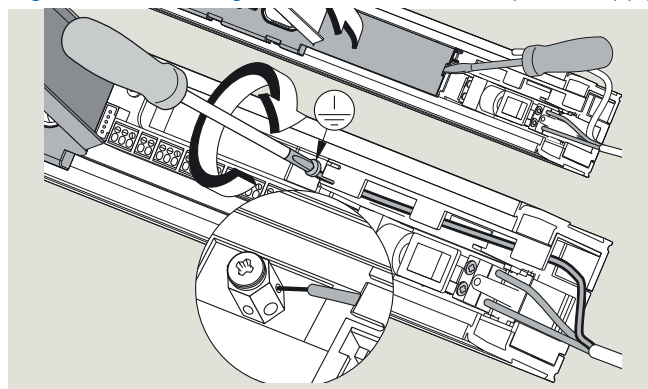


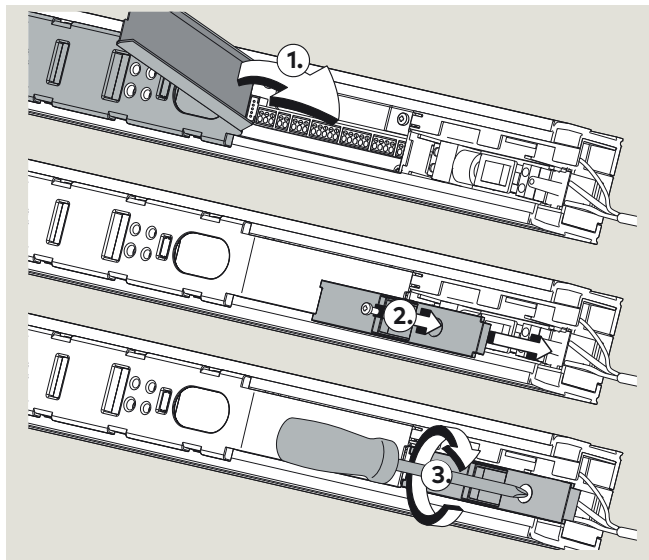
Fig. 8.115 Grounding wire (PE) connection to power supply



8.1.14 Close control unit cover, move and secure end stop.

1. Close cover of control unit housing.
2. Secure the cover with control unit housing cover screw.
3. Move end stop to end of channel and tighten end stop screws.(Ref. Chapter 7, Fig. 7.7).

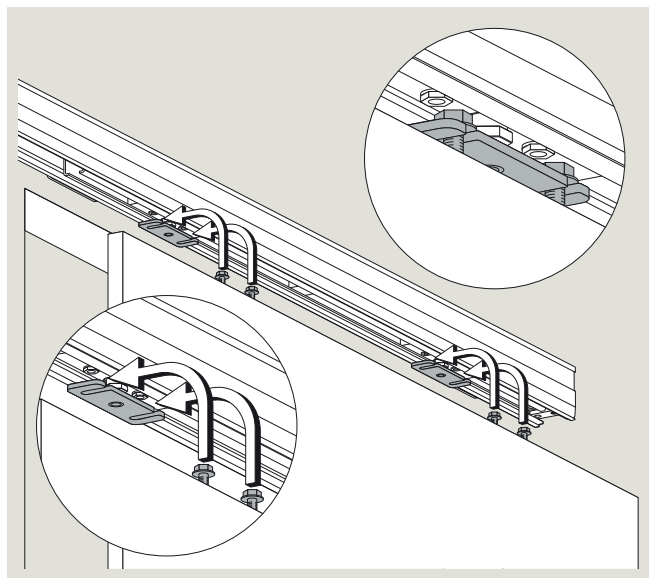
Fig. 8.1.16 Close and secure cover, move and secure end stop



8.1.15 Install panel.

1. Insert panel into door panel suspension.
2. Align panel so that it is parallel to wall and secure it with fasteners.

Fig. 8.1.17 Panel installation

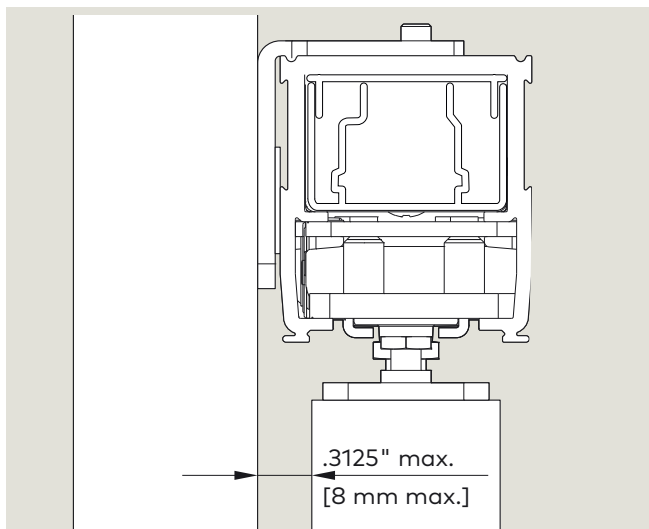


8.1.16 Door panel to wall minimum distance.

NOTICE

The distance between the door panel and wall must not exceed 5/16" [7.94 mm].

Fig. 8.1.18 Door panel to wall minimum distance



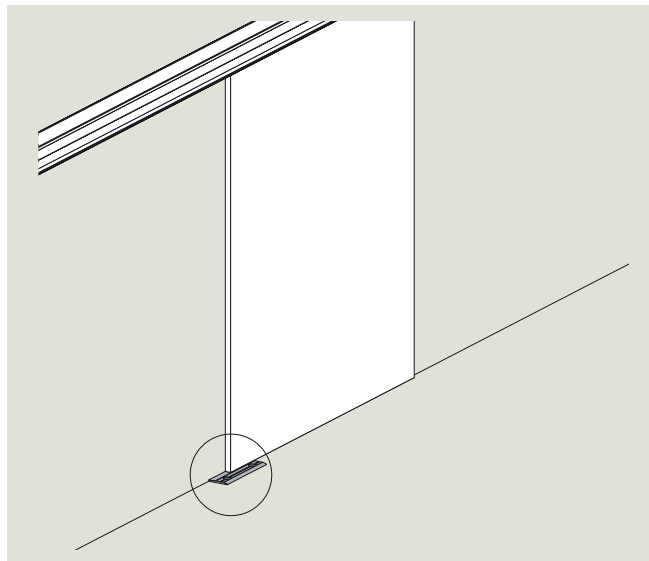
8.1.17 Install floor guide rail.

1. Locate and attach the supplied floor guide rail.
 - Refer to the floor guide rail mounting instructions.

NOTICE

When adjusting the floor guide rail, ensure that the door runs smoothly through the floor guide rail and does not rub against the floor guide rail.

Fig. 8.119 Floor guide rail installation



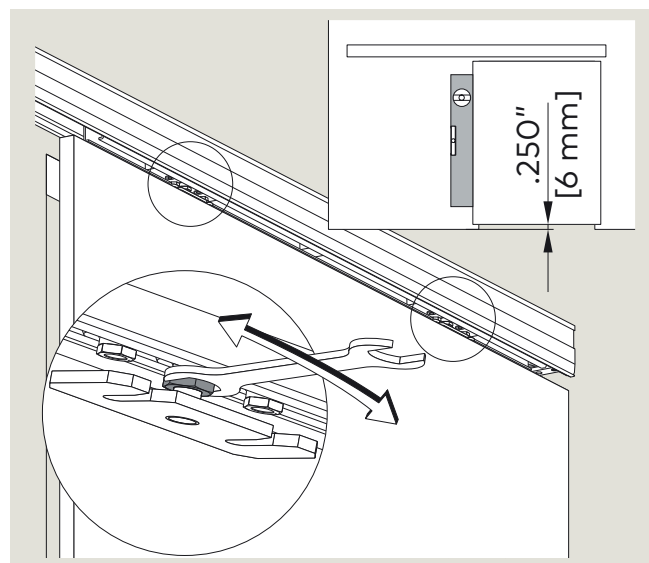
8.1.18 Align door panel for level.

1. Using the adjustment nuts, align door panel so that it is level.

NOTICE

The distance between the bottom edge of the door panel and the floor should be $1/4"$ [6.35 mm]. The distance must not exceed $5/16"$ [7.94 mm]

Fig. 8.120 Door panel alignment for level



8.1.19 Secure end stop at desired door closed position.

1. Loosen the end stop screws on the side where the connections are made.
2. Move the door to the desired position.
3. Move end stop next to the door panel and tighten the end stop fasteners.

NOTICE

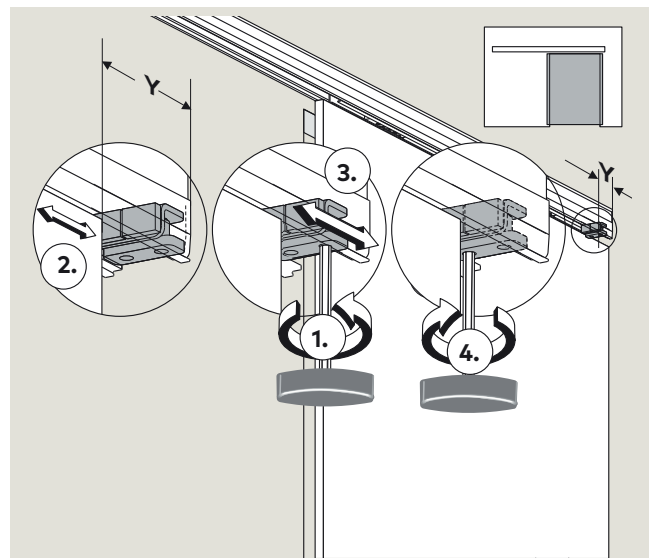
The end stop may only be moved to the inside by a certain maximum dimension Y:

34.4" [875 mm] operator => 7.9" [200 mm].

39.4" [1000 mm] operator => 9.5" [250 mm].

48.2" [1125 mm] operator => 11.8" [300 mm].

Fig. 8.121 End stop final position



8.1.20 Secure opposite end stop in door open position.

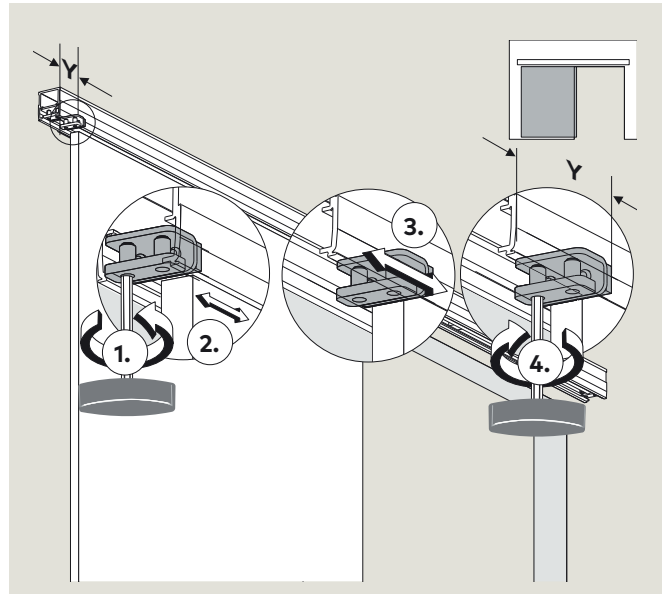
1. Loosen opposite side end stop screws.
2. Move door to desired open position.
3. Move end stop next to door panel.
4. Tighten end stop screws.

NOTICE

The end stop may only be moved to the outside by a maximum dimension (Y):

- 34.4" [875 mm] operator =>7.9" [200 mm].
- 39.4" [1000 mm] operator =>9.5" [250 mm].
- 48.2" [1125 mm] operator =>11.8" [300 mm].

Fig. 8.1.21 End stop final position



8.1.21 Attach dormakaba logo, install end caps.

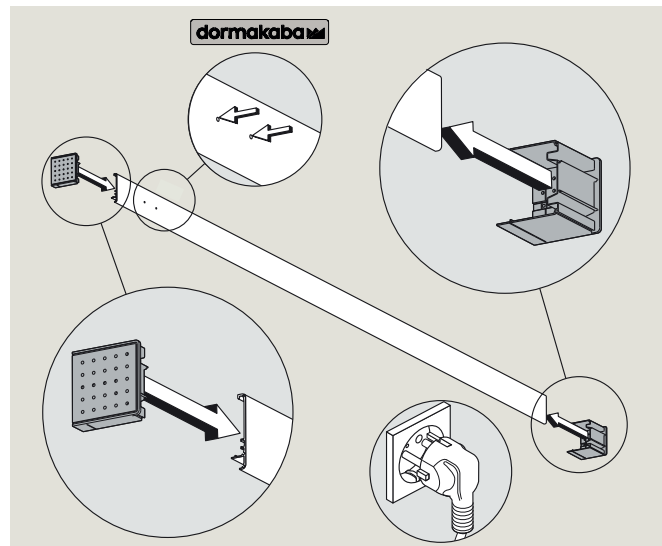
1. Place dormakaba logo on cover. Logo is adhesive-backed.
2. Insert end caps into cover.



TIPS AND RECOMMENDATIONS

Depending on prevailing structural conditions, end caps can either be cut to length or broken out at predetermined breaking points.

Fig. 8.1.22 Logo, end cap and power plug installation



8.1.22 Install accessories and route cables into operator.

1. Install radio receivers, program switch and / or sensors or other accessories.
2. Route cables as indicated in the enclosed instructions.

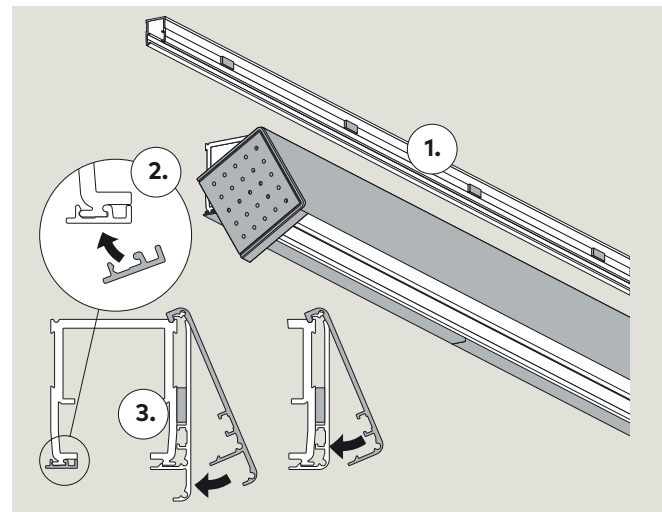
8.1.23 Install power plug, if used.

1. Plug in power supply cord, if used.

8.1.24 Install cover.

1. Install the 4 supplied pieces of foam rubber at equal distances onto the operator.
2. At the operator side where it is connected to the wall, attach the black wall connection profiles at bottom of operator. Cut the last profile to length using a knife.
3. Place the cover onto operator and clip it closed.
 - When using dormakaba MANET single-point attachment, the shorter cover must be used (displayed on right side).

Fig. 8.1.23 Logo, end cap and power plug installation



8.1.25 Continue with system commissioning.

Reference Chapter 13.

9 Installation instructions – in-wall mounting

9.1 Installation instructions

9.1.1 Minimum recess for CS 80 MAGNEO operator.

The CS80 MAGNEO sliding door operator is also suitable for an "invisible" in-wall mounting.

For this type of mounting, a recess with a minimum width of 2" [50 mm] and a depth of 2.95" [75 mm] is required.

A special door frame manufactured by BOSS can be used. Contact dormakaba for additional details.

9.1.2 Installation dimensions.

NOTICE

Dimension X

- When using a Wooden door panel:
X = door panel height + 3" [78 mm].
- When using a glass clamping rail:
X = door panel height + 4 1/2" [114 mm].
- When using dormakaba MANET single point fixings:
X = door panel height + 2 29/32" [74 mm].

CAUTION

Holes for cables must be sufficiently large and must not have sharp edges.

Fig. 9.1.1 Minimum recess, in-wall mounting

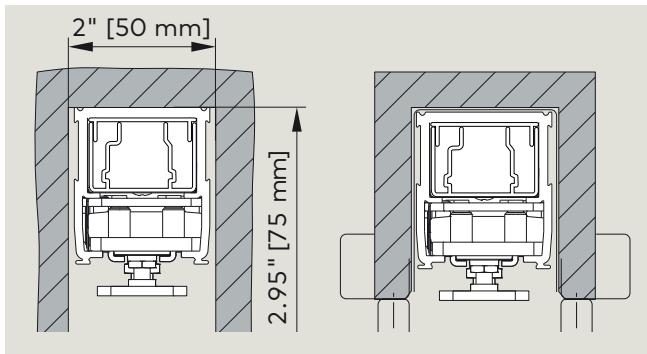
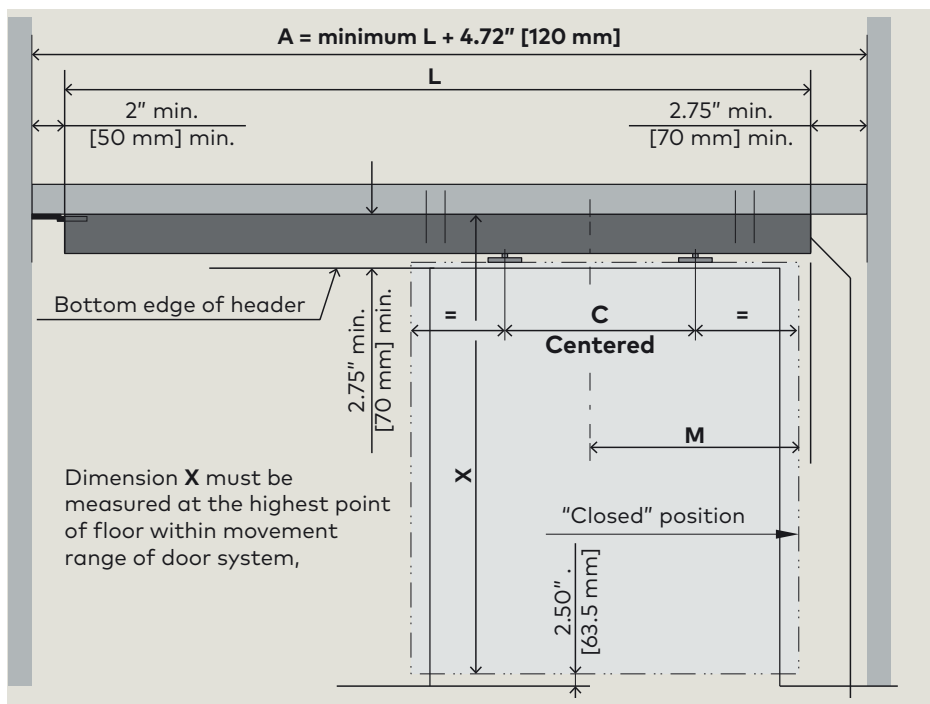


Table 9.1.1 Installation dimensions

L	68.9" [1750 mm]	78.7" [2000 mm]	88.6" [2250 mm]
M	17.2" [437.5 mm]	19.7" [500 mm]	22.1" 562.5 mm]
A	73.6" min. [1750 mm] min.	83.5" min. [2120 mm] min.	73.6" min. [2370 mm] min.
C	22.7" [575 mm]	27.6" [700 mm]	32.5" [825 mm]

- Dimension **L**: Operator length.
- Dimension **M**: Distance from center of passage area, to side of operator where connections are located.
- Dimension **A**: Minimum width between frames.
- Dimension **X**: Height of top of operator from floor.

Fig. 9.1.2 Door system installation dimensions



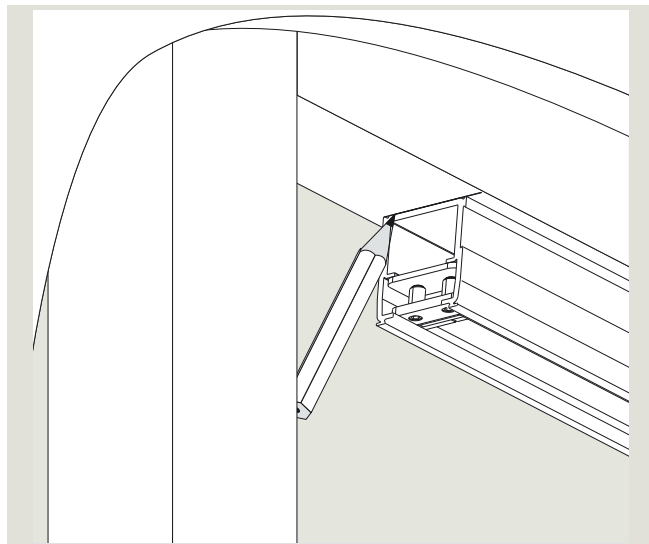
TIPS AND RECOMMENDATIONS

The wall must not be closed before the system has been installed.

9.1.3 Mark end of operator opposite connection side.

1. Hold operator in desired position.
2. Mark the end of operator on the side opposite the connections.

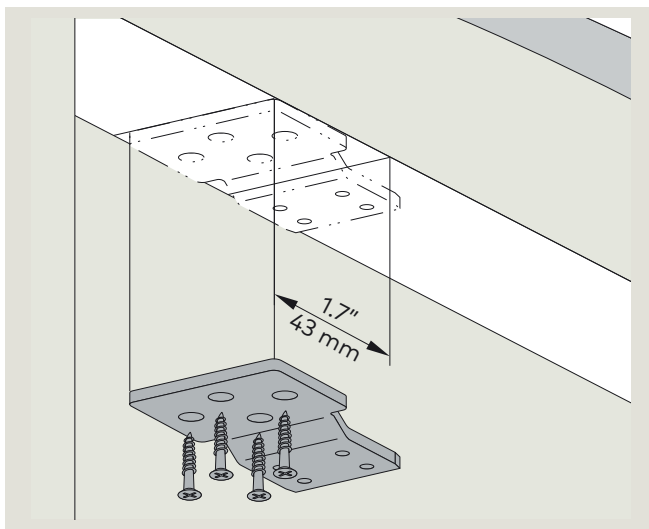
Fig. 9.1.3 End of operator line, opposite connection side



9.1.4 Install mounting bracket.

1. Draw a second line at a distance of 1.7" [43 mm] from end of operator line.
2. Position mounting bracket at second line and mark the drill holes.
3. Drill holes.
4. Install bracket with suitable screws.

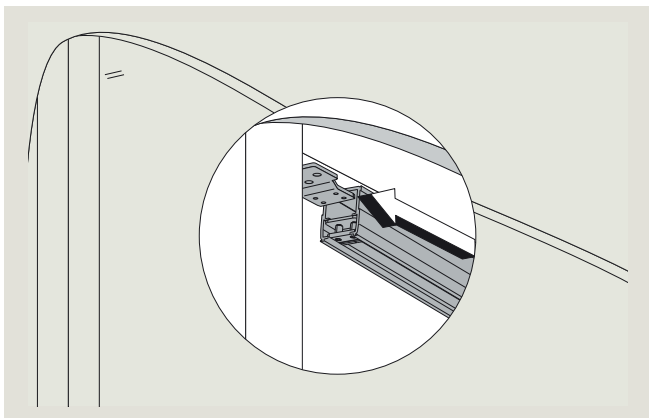
Fig. 9.1.4 Attachment bracket installation



9.1.5 Align operator at mounting bracket location.

1. Move operator over mounting bracket as far as it will go.

Fig. 9.1.5 Operator alignment to attachment bracket



TIPS AND RECOMMENDATIONS

Operator orientation.
Position operator correctly, i.e. the side with the connections must be opposite the mounting bracket (Para. 9.1.4).

CAUTION

Never leave operator on mounting bracket without holding it in position, otherwise the bracket would be deformed.

2. Align operator so that it is parallel to wall.

9.1.6 Mark and drill attachment holes.

1. Mark attachment holes through holes in operator.

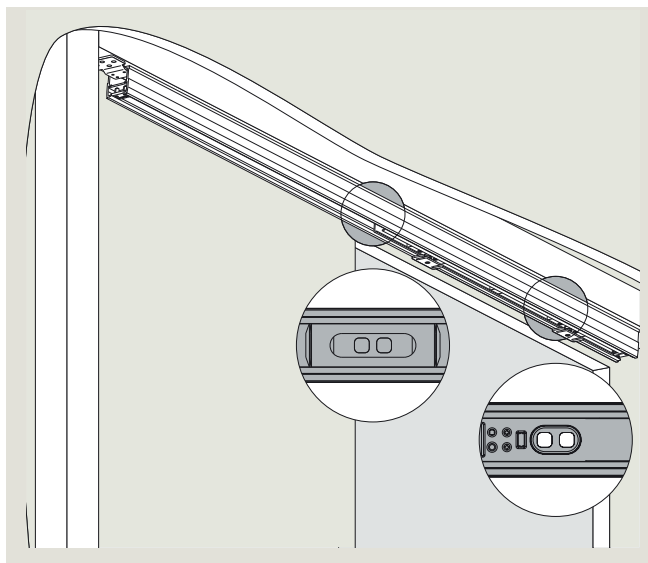


TIPS AND RECOMMENDATIONS

In order to reach all 4 attachment holes, the carrier must be moved.

2. Remove operator and drill attachment holes with a diameter of 5/32" [4.2 mm] for the supplied sheet metal screws.
 - The sheet metal must be a minimum of 3/32" [2 mm] thick.
 - The sub construction must support a minimum of 528 lb [240 kg].

Fig. 9.1.6 Operator attachment holes



9.1.7 Locate operator over fixing bracket.

1. Move operator over attachment bracket as far as it will go.



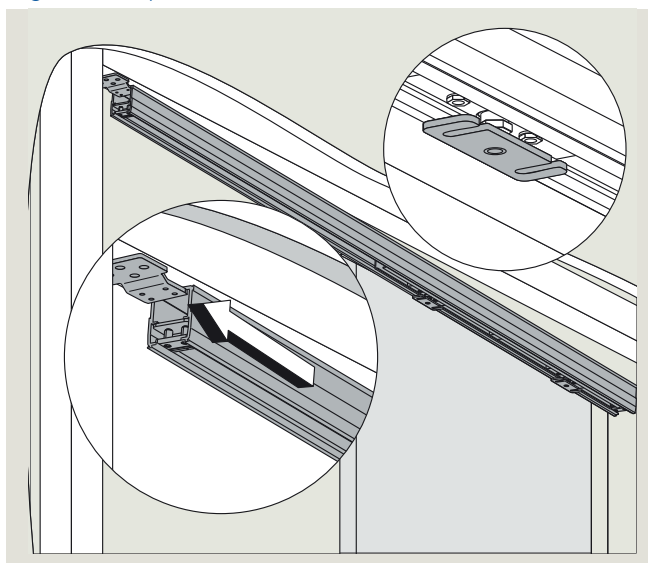
TIPS AND RECOMMENDATIONS

Operator orientation.
The side with the connections must be opposite the attachment bracket (Para. 9.1.4).

CAUTION

Never leave operator on attachment bracket without holding it in position, otherwise the attachment bracket would be deformed.

Fig. 9.1.7 Operator over attachment bracket



TIPS AND RECOMMENDATIONS

Openings of door panel suspension must point to the front as they cannot be turned following installation of the system.

9.1.8 Install operator to cross girder.

1. Attach operator under cross girder with the selected screws.

CAUTION

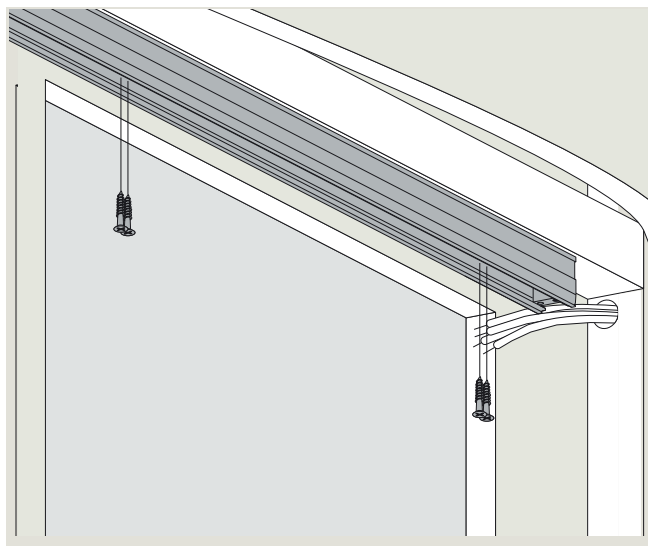
- Operator must be attached so that it is level and parallel to the wall.



TIPS AND RECOMMENDATIONS

- All connection cables must be routed to within close proximity to the operator.
- Holes for cables must be adequately sized and must not have sharp edges.

Fig. 9.1.8 Operator installation to cross girder



9.1.9 Connection of 120 Vac permanent power supply.



WARNING

Work on electrical equipment must only be performed by properly qualified personnel (electricians).

Before starting installation, make sure that the 120 Vac power supply is OFF.

1. Loosen the end stop and move it to the center of the system (Ref. Chapter 7, Fig. 7.3).
2. Cut the wires to length, strip the wire insulation (1/4" [6 mm]).
3. Connect L1 and N to the terminals of the power supply.
4. Reference Para.9.1.11 for grounding wire connection.

9.1.10 Conduit connection.

When using a conduit connection, use the supplied conduit cover, mounting plate and Phillips screws.

1. Attach mounting plate to operator with 2 screws.
2. Route the wires through the mounting plate and connect to the operator.
3. Fold the conduit cover as shown.
4. Secure conduit cover to mounting plate with remaining screw.

9.1.11 Grounding wire (PE) connection to power supply.

1. Using a screwdriver, open the control unit housing cover.
2. Route the grounding wire through the operator control unit housing and connect it to the grounding terminal (PE).



WARNING

The grounding wire must be connected to the PE terminal.

9.1.12 Connection of external accessories.

1. Connect all external accessories except for safety sensors. Refer to cable channel instructions.

9.1.13 Close control unit cover, move and secure end stop.

1. Close cover of control unit housing.
2. Secure the cover with control unit housing cover screw.
3. Move end stop to end of channel and tighten end stop screws.(Ref. Chapter 7, Fig. 7.7).

Fig. 9.1.9 Connection of 120 Vac permanent power supply

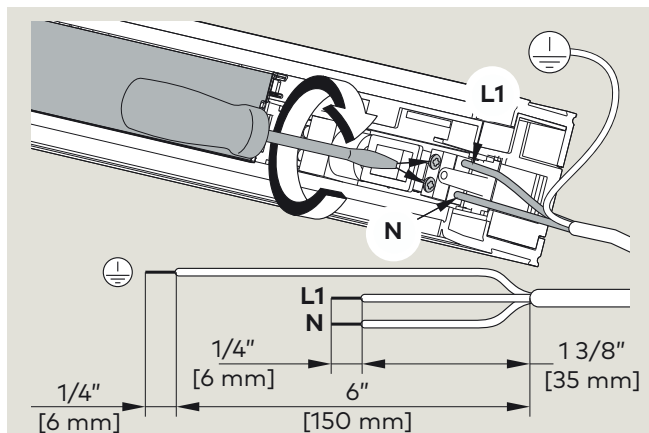


Fig. 9.1.10 Conduit connection

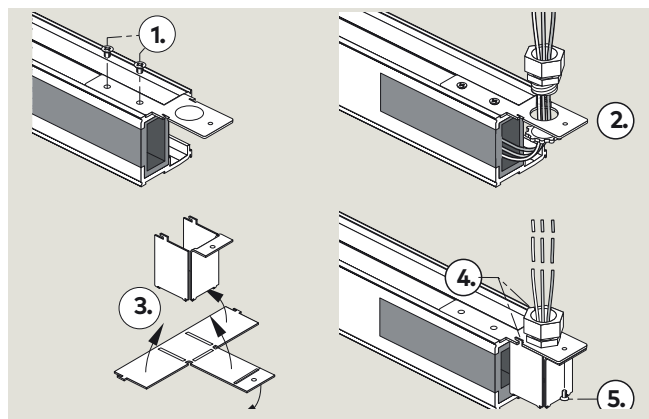


Fig. 9.1.11 Grounding wire (PE) connection to power supply

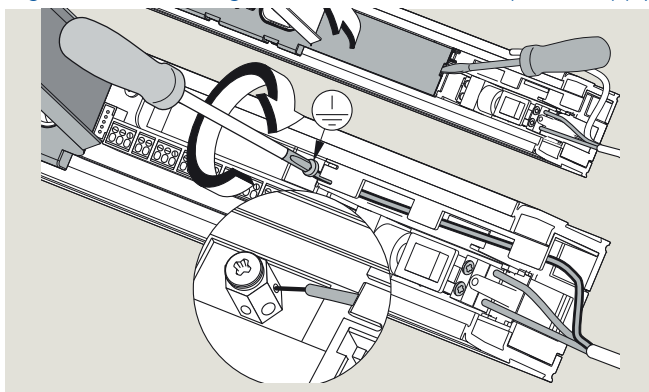
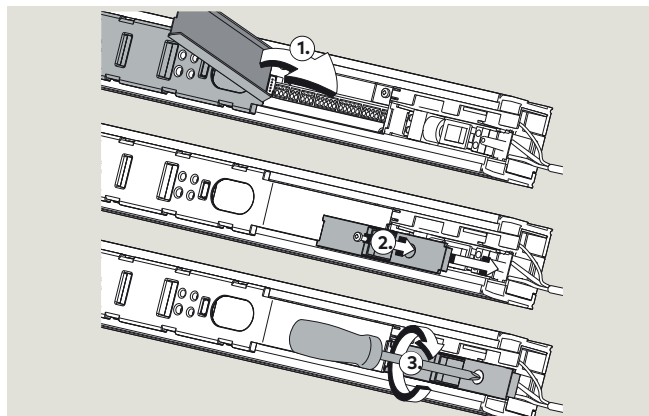


Fig. 9.1.12 Close and secure cover, secure end stop



9.1.14 Place door panel inside door frame.

1. Move end stop to end of channel.

CAUTION

End stop must not fall out of operator.

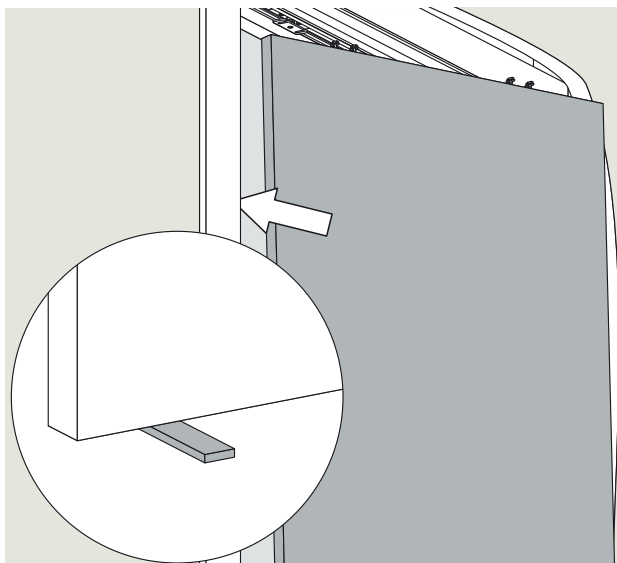
2. Place door inside door frame.
 - As door panel is wider than the doorway, the panel will have to be tilted.



TIPS AND RECOMMENDATIONS

As it will be difficult to manually lift the door with in-wall mounting, wooden wedges should be used to facilitate lifting the door panel.

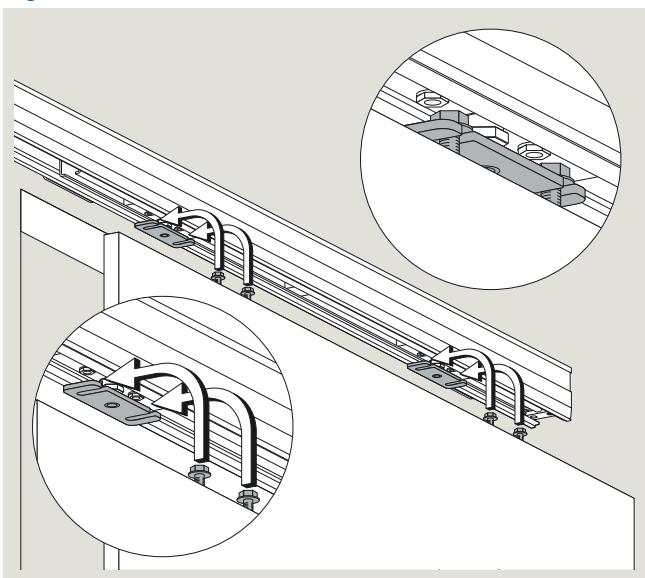
Fig. 9.113 Panel installation



9.1.15 Install panel.

1. Insert panel into door panel suspension.
2. Align panel so that it is parallel to wall and secure it with fasteners.

Fig. 9.114 Panel installation



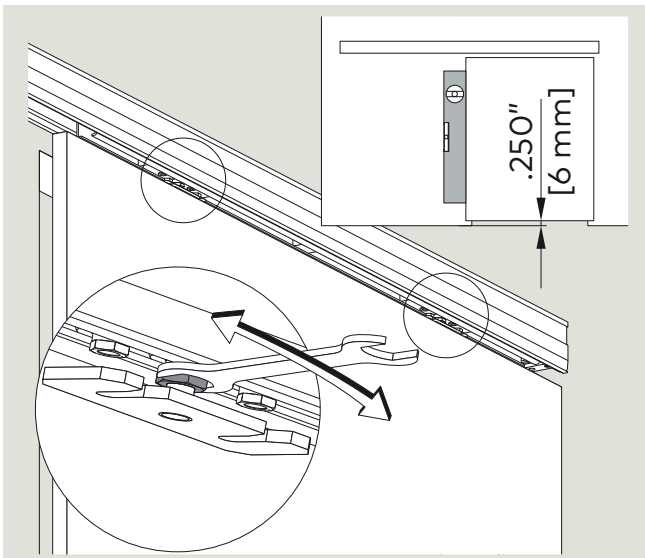
9.1.16 Align door panel for level.

1. Using the adjustment nuts, align door panel so that it is level.

NOTICE

The distance between the bottom edge of the door panel and the floor should be 1/4" [6.35 mm]. The distance must not exceed 5/16" [7.94 mm]

Fig. 9.115 Door panel alignment for level



9.1.17 Secure end stop at desired door closed position.

1. Loosen the end stop screws on the side where the connections are made.
2. Move the door to the desired position.
3. Move end stop next to the door panel and tighten the end stop fasteners.

NOTICE

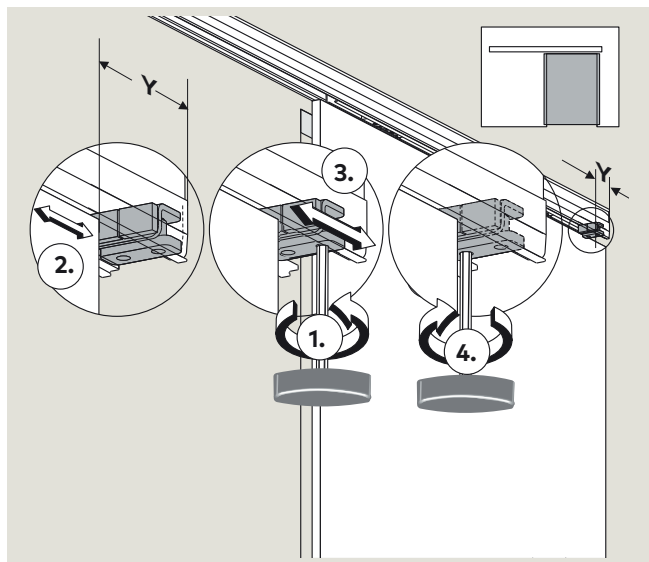
The end stop may only be moved to the inside by a certain maximum dimension Y:

34.4" [875 mm] operator =>7.9" [200 mm].

39.4" [1000 mm] operator =>9.5" [250 mm].

48.2" [1125 mm] operator =>11.8" [300 mm].

Fig. 9.116 End stop final position



9.1.18 Secure opposite end stop in door open position.

1. Loosen opposite side end stop screws.
2. Move door to desired open position.
3. Move end stop next to door panel.
4. Tighten end stop screws.

NOTICE

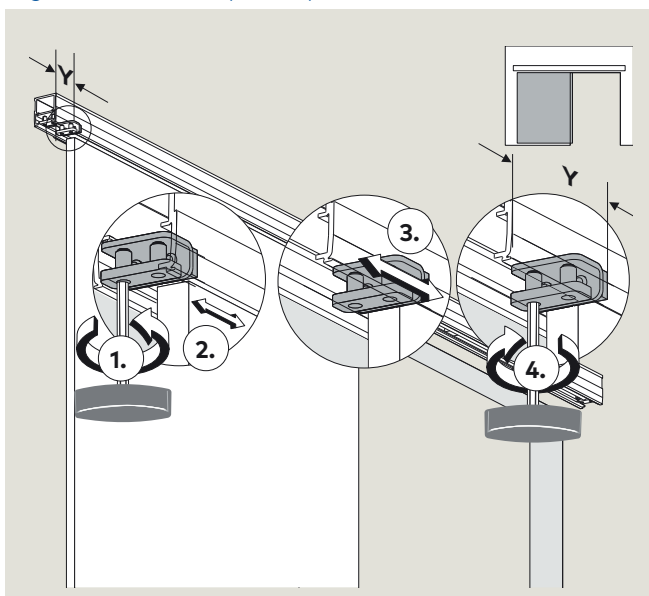
The end stop may only be moved to the outside by a maximum dimension (Y):

34.4" [875 mm] operator =>7.9" [200 mm].

39.4" [1000 mm] operator =>9.5" [250 mm].

48.2" [1125 mm] operator =>11.8" [300 mm].

Fig. 9.117 End stop final position



9.1.19 Door panel to wall maximum distance.

NOTICE

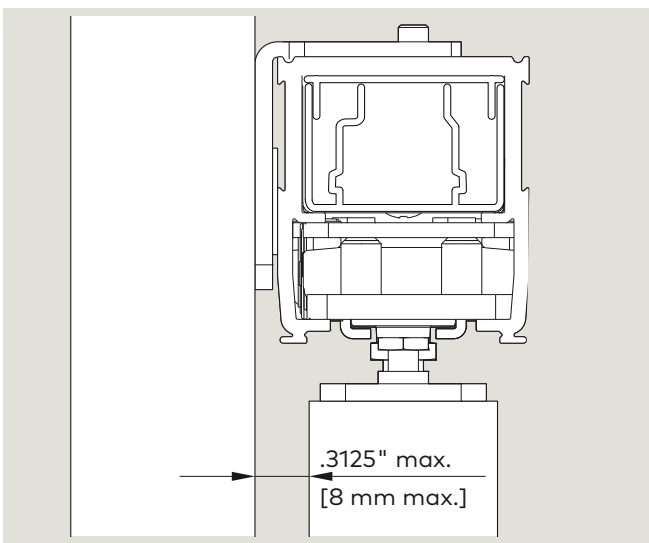
The distance between the door panel and wall must not exceed 5/16" [7.94 mm].

9.1.20 Connection of external accessories.

1. Connect all external accessories except for safety sensors. Refer to cable channel instructions.

9.1.21 Continue with system commissioning. Reference Chapter 13.

Fig. 9.118 Door panel to wall minimum distance



10 Connection diagrams

In order to facilitate the wiring connections to the terminals, the terminal blocks can be removed with needle nosed pliers.

NOTICE

Main closing edge: The leading edge of the door.

Activating the sensor will disable automatic operation in the closing direction.

Secondary closing edge: The trailing edge of the door.

Activating the sensor will disable automatic operation in the opening direction.

Action if short circuit present at a terminal connection.

1. Remove short circuit.
2. Power switch off, then back on.

Fig. 10.1.1 Operator terminal strip

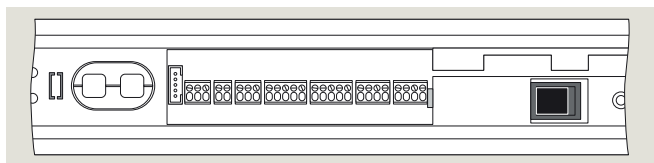
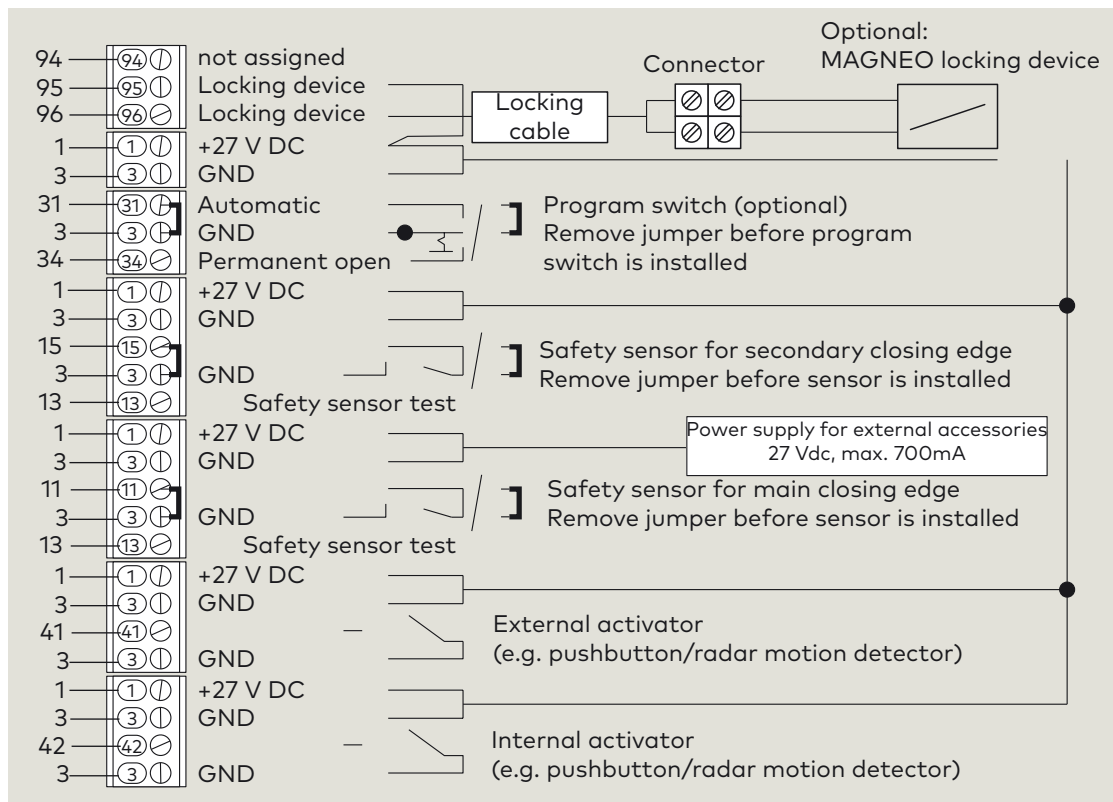


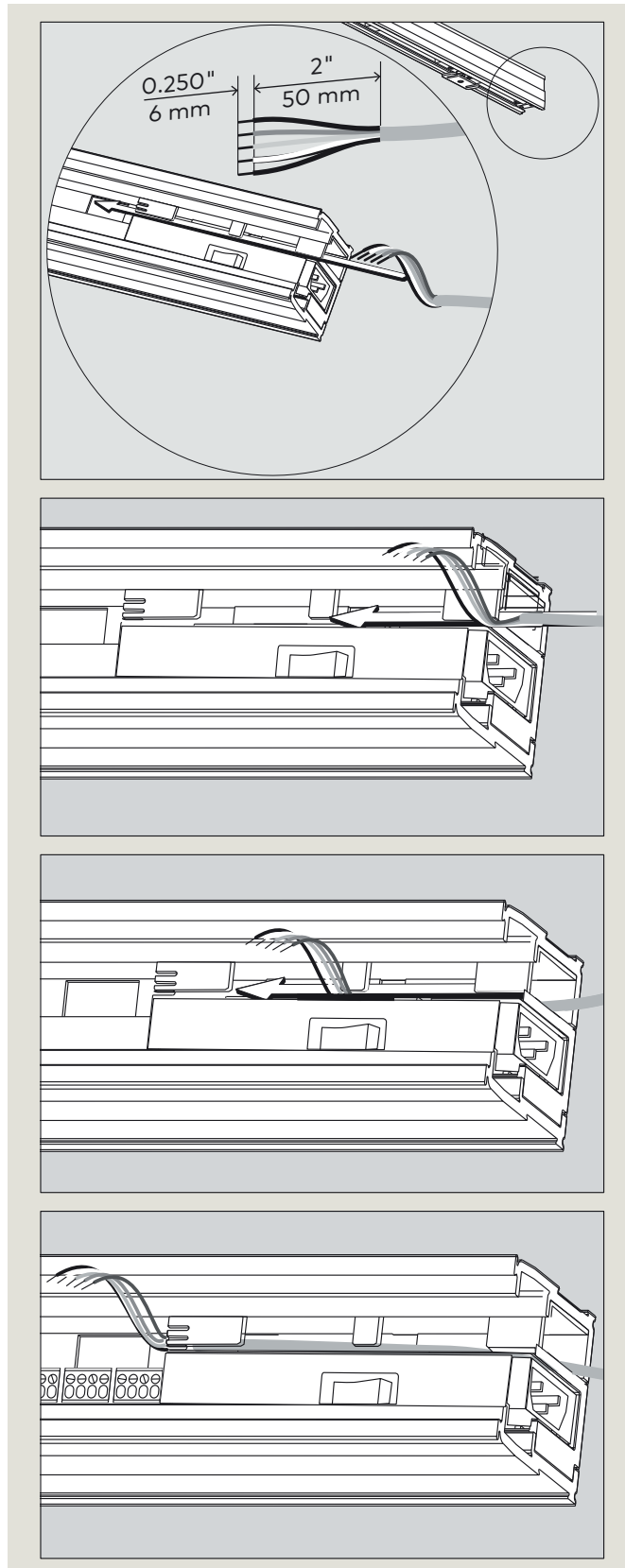
Fig. 10.1.2 Terminal connections



11 Cable channel

Cables for external accessories (sensors, pushbuttons, etc.) must be routed inside the cable channel as shown in Fig. 11.1.

Fig. 11.1. Wire routings in cable channel



12 Connection of closing edge protection

CAUTION
 This work must only be performed by qualified, trained persons.

NOTICE

Main closing edge: The leading edge of the door.
 Activating the sensor will disable automatic operation in the closing direction.

Secondary closing edge: The trailing edge of the door.
 Activating the sensor will disable automatic operation in the opening direction.

When testable sensors for the protection of the closing edge are connected, the control unit has to be configured to the sensors via the DIP switches.

Main closing edge sensor connection:

- Set DIP switch 1 to ON and DIP switch 2 to OFF.

Secondary closing edge sensor connection:

- Set DIP switch 1 to ON and DIP switch 3 to OFF.

Sensors connected to both main and secondary closing edges:

- Set DIP switch 1 to ON and DIP switches 2 and 3 to OFF.

Fig. 12.1.1 Control unit DIP switch

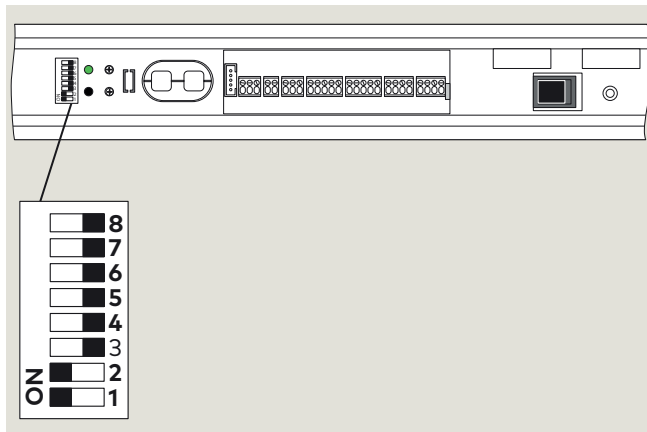


Table 12.1.1 Closing edge sensors DIP switch settings

3	ON	Test high active
	OFF	Test low active
2	ON	Sensor test for secondary closing edge activated
	OFF	Sensor test for secondary closing edge deactivated
1	ON	Sensor test for main closing edge activated
	OFF	Sensor test for main closing edge deactivated

13 Commissioning

13.1 Basic requirements.

- The CS 80 MAGNEO is completely installed.
- The door can be moved smoothly over its complete movement range.

13.2 General information.

- When the system is connected to the 120 Vac power supply, the LED blinks green and the operator has no function. The door can be manually accessed.

Fig. 13.1.1 Control unit LED and adjustments

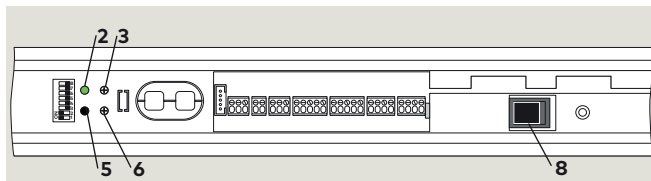


Table.13.1.1 Control unit LED and adjustments

ID	Description
2	LED indicator (green, yellow, red)
3	Hold-open time potentiometer
5	Reset button/Start learning cycle
6	Speed adjustment potentiometer
8	Power switch

- A learning cycle must be performed in order to make the operator ready for operation.
- The LED is ON green following the learning cycle. The CS 80 MAGNEO is now ready for operation and operates in the Low-Energy mode.

NOTICE

In addition to the commissioning learning cycle:

- A learning cycle has to be performed: Every time the position of the end stop has been adjusted.
- The weight of the door has changed.

- This procedure describes the commissioning of the standard door system. Accessories and different operation modes can be adjusted after the system has been commissioned.
- Sensors are connected and adjusted following the successful commissioning of the system.
- The LED (green) provides visual feedback.
- The settings stored during the commissioning of the system can be overwritten by performing a new commissioning.

13.3 Learning cycle.

1. In order to start the learning cycle:
 - The door must be open.
 - The operator must be switched on.
 - The movement range of the door must be free of obstacles.

The LED will blink green before the first learning cycle.

2. Press and hold the **Reset** button for more than 3 seconds.

NOTICE

Do not interrupt the learning cycle as the system currently learns all of the values required.

13.3.1 During the learning cycle the door will:

- Open twice and close again.
- The LED will blink green at certain intervals then it will display a continuous ON green light.

13.3.2 The CS 80 MAGNEO is ready for operation.

13.4 Procedure to switch the system from Low-Energy to Full-Energy.



WARNING

Only authorized, trained persons may switch the CS 80 MAGNEO to Full-Energy mode.

- **As there are higher forces in Full-Energy mode, the closing edges must be protected by safety sensors.**
- **Contact dormakaba for further information.**

13.4 Potentiometer adjustments.



WARNING

Use only the enclosed red screwdriver to perform potentiometer adjustments.



13.4.1 Speed adjustment.



The maximum speed depends on the weight of the door panel.

The speed can be reduced by adjustment of the speed potentiometer.

13.4.1 Hold-open time adjustment.



After reaching the open position, the door will close automatically upon expiration to the adjusted hold-open time.

The hold-open time can be adjusted from 5 to 30 seconds with the hold-open time potentiometer.

Fig. 13.1.2 CS 80 MAGNEO control unit

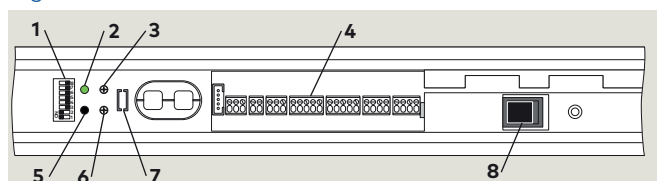


Fig. 13.1.3 DIP switch

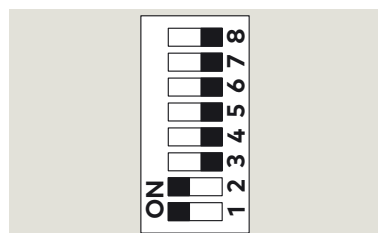


Table 13.1.2 CS 80 MAGNEO control unit

Part / Assembly	Description
1	DIP switch
2	LED indicator (green, yellow, red)
3	Potentiometer, hold-open time
4	Terminals, connections for external accessories
5	Reset button, Start learning cycle
6	Potentiometer, speed adjustment
7	Energy mode switch (Full energy/Low energy) (located below the seal)
8	Power switch

Table 6.3 DIP switch settings

8	OFF	No locking function	ON	Locking function
7	OFF	Reduced closing force	ON	Enhanced closing force
6	OFF	Automatic function activated	ON	Permanent Open function activated
5	OFF	External motion detector activated	ON	External pushbutton activated
4	OFF	Internal motion detector activated	ON	Internal pushbutton activated
3	OFF	Test low active	ON	Test high active
2	OFF	Sensor test at secondary closing edge deactivated	ON	Sensor test at secondary closing edge deactivated
1	OFF	Sensor test at main closing edge deactivated	ON	Sensor test at main closing edge deactivated

13.5 Permanent Open function by double click.

This function can only be adjusted when a pushbutton is connected.

1. To activate this function, set DIP switches 4 and 5 to the ON position.

13.6 Opening and closing by pushbutton.

This function is only available with a pushbutton or Push & Go function.

1. To activate this function, set DIP switches 4,5 and 6 to ON position.

13.7 Closing force.

In case the door does not close properly due to the door seals, the force with which the operator presses the door against the seals can be increased.

1. To increase the force, set DIP switch 7 to ON.

13.8 Compliance check.

Check speed, forces and functions of sensors to insure safe operation.

14 Operating instructions

14.1 Opening the door in AUTOMATIC function.

When the system is delivered, the CS 80 MAGNEO is adjusted to AUTOMATIC function.

Depending on the installed accessories, the door can be opened in different ways.

14.1.1 Push & Go.

1. As soon as the door is manually moved into the opening direction by approximately 4" [10 mm], the operator automatically moves the door panel further in the opening direction.
2. The door closes automatically.

14.1.2 Pushbutton

Following the activation of the pushbutton (e.g. wall mounted pushbutton or radio transmitter) the operator opens, then closes the door.

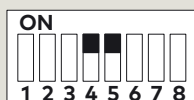
14.1.3 Sensors

When presence sensors are connected, the door opens automatically as soon as a person approaches the door system.

The door closes automatically.

14.2 Permanent Open by double-click.

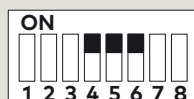
1. To activate this function, set DIP switches 4 and 5 to the ON position.



2. Once activated:
 - To open the door, double-click the pushbutton.
 - To close the door, double-click the pushbutton again.

14.3 Opening/Closing by pushbutton (alternate action).

1. To activate this function, set DIP switches 4, 5 and 6 to the ON position.



2. Once activated:
 1. To open the door, push the button or manually move the door.
 2. When the button is pushed a second time, or the door is manually moved, the door will close.

14.4 Express function.

The door can be moved manually into its driving direction without extra resistance.

- When maximum speed is exceeded, the operational resistance will increase in line with the speed by which it is exceeded.
- As soon as the user releases the door panel, the operator will gradually slow the panel down to maximum speed.
- This function is activated during all opening and closing cycles.

14.5 In the event of power failure.

In the event of power failure, the door can be manually opened and closed.

NOTICE

In the case of power failure, the system does not brake the door panel, which means the user has to manually move (hold) the door panel for the panel full travel distance.

As soon as the power returns, the operator will automatically perform a positioning initialization.

NOTICE

During this position initialization, the door movement range must be free of obstacles.

14.6 Adjustments.



WARNING

Use only the enclosed red screwdriver to perform potentiometer adjustments.



14.6.1 Speed adjustment.



The maximum speed depends on the weight of the door panel.

The speed can be reduced by adjustment of the speed potentiometer.

14.6.2 Hold-open time adjustment.



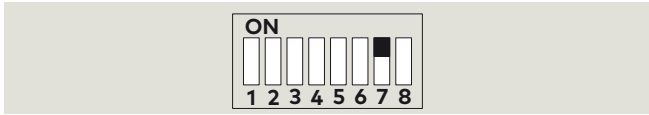
After reaching the open position, the door will close automatically upon expiration to the adjusted hold-open time.

The hold-open time can be adjusted from 5 to 30 seconds with the hold-open time potentiometer.

14.7 Closing force.

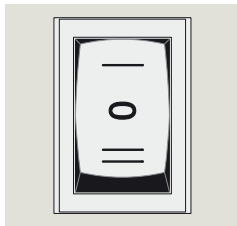
In case the door does not close properly due to the door seals, the force with which the operator presses the door against the seals can be increased.

1. To increase the force, set DIP switch 7 to ON.



14.8 Internal Mode switch (optional)..

The internal Mode switch, if supplied, is installed on the lateral cover on the side with the door in the closed position.



AUTOMATIC

OFF

PERMANENT OPEN

14.8.1 Changing the operating mode.

1. To change the operating mode, set the program switch to the desired position.

14.9 Operating cycle indicator.

When the "Reset" button (Fig. 13.1.2) is momentarily depressed, the door will open.

In case the LED light indicator illuminates for one second (yellow light), the system has performed more than 200,000 cycles.

dormakaba service should be contacted to have the system checked.

15 Daily safety checks

The following points must be observed:

- An inspection and acceptance test according to the checklist in Para. 15.1 has to be performed after the first commissioning of the system by trained staff (staff trained by dormakaba).
- Regular maintenance and inspections must be performed (minimum: once/year) referencing our specifications for the CS 80 MAGNEO by properly trained staff.

15.1 Checklist (startup test, maintenance , regular inspections) according to standards.

- The system has been properly installed in accordance with the manufacturer's instructions.
- The door panel runs smoothly.
- The door works properly (check both the opening and closing cycles).
- Functions (i.e. motion detectors, pushbuttons or remote controls) have been checked for proper function.
- Safety sensors, if installed, have been checked for proper function.
Effective safety equipment, if installed, to avoid or protect danger spots between certain parts of the door system and between the door and its structural environment (for example safety clearances or the protection of the secondary closing edge).
- Inspection and maintenance work has been documented.

15.2 Maintenance work.

NOTICE

Power to the CS 80 MAGNEO must be turned OFF and secured against unintended and unauthorized power on before performing maintenance work (cleaning or maintenance).

15.2.1 Cleaning.

- During the cleaning operation, the Mode switch must either be in the OFF or PERMANENT OPEN position to avoid automatic movement of the door.
- Always disconnect the power before servicing.
- The entire door (Aluminum, Glass, Stainless steel) can be cleaned with a moist towel and/or common commercial cleaners.
- Any safety sensors are to be cleaned with a dry, soft, non-abrasive towel.
- The floor and threshold (if any) must be kept clean.

15.3 Yearly system check.

Prior to first use and periodically thereafter (Minimum: once/year) the system must be checked by a AAADM certified dormakaba USA, Inc. technician.

16 Troubleshooting

Malfunction	Possible causes	Remedy
The door does not respond The green LED is OFF.	No power supply.	Switch on power switch.
	Loose cable connections.	Connect, check tightness of cables.
	Damaged power cord.	Replace power cord.
	Damaged power plug.	Replace operator.
The door does not respond The green LED is OFF.	The program switch is set to [0] (OFF).	Set program switch to desired function.
	The program switch is set to [1] (Permanent Open).	Set program switch to desired function.
	The door has been adjusted to Permanent Open function by double-click.	Close door by double-click.
	The safety sensors at the door are activated (there is something within the detection range of the sensor).	Remove obstacles. Adjust safety sensors if required.
	Damaged sensor cable.	Check and replace cables if required. Check and replace jumpers if required.
	No safety sensors are connected.	Terminals must be bridged.
	The operator is defective.	Replace operator.
The green LED light indicator blinks at certain intervals.	The learning cycle has not been properly performed.	Restart learning cycle (Chapter 13).
	The operator is defective.	Replace operator.
The door stops during a cycle.	The door does not run smoothly.	Check movement range and remove cause for unsmooth running.
The door moves beyond the adjusted "open" or closed" position.	The corresponding end stop has shifted its position.	Readjust end stop and tighten screws. Start learning cycle (Chapter 13).
The red LED light indicator illuminates permanently.	Defective control unit.	Switch power off and on.
		Replace operator.
The red LED light indicator blinks twice at certain intervals.	Defective control unit.	Switch power off and on.
		Replace operator.

Malfunction	Possible causes	Remedy
The red LED blinks 3 times at regular intervals.	The power mode switch of the door has been switched to another position.	Switch power switch off and on.
The red LED blinks 4 times at regular intervals.	Testable safety sensors are defective.	Check and replace safety sensors if required.
	Damaged sensor cable.	Check and replace cables if required.
	DIP switches 1 and 3 are not set correctly.	Check DIP switch settings and readjust if required.
The red LED blinks 5 times at regular intervals.	Incremental encoder or cable of incremental encoder is defective.	Switch mains switch off and on. Replace operator.
	The opening width is incorrectly adjusted.	Readjust opening width (end stops). Start learning cycle (Chapter 13).
The red LED blinks 6 times at regular intervals.	There is an obstacle within the door's movement range.	Remove obstacles from movement range.
	The opening width is incorrectly adjusted.	Readjust opening width (end stops). Start learning cycle (Chapter 13).
The red LED blinks 10 times at regular intervals.	Stator or cable of stator is defective.	Switch power switch off and on. Replace operator.
	Short circuit at terminal connection.	1. Remove the short circuit. 2. Switch power switch off and on.
Humming noise while door is in end position.	Inappropriate end position of door panel.	Shift end stop by at least 1/16" [2 mm]. Start learning cycle (Chapter 13).
The door panel vibrates when moving.	The guide mechanism is under tension.	Readjust door panel connection and the floor guide if required. Turn the nuts several times in order to fix the door panels.

Appendix A – MAGNEO Single MANET ON-WALL Operator Package

A.1 MAGNEO Operator single door package.

- A. Operator:
 - Angle bracket to mount MAGNEO on wall.
 - Low profile aluminum header.
 - MANET kit for glass door panel.
 - 3/8" [10] to 1/2" [13] Solid Tempered glass required (provided by others).
 - Floor mounted bottom guide.
- B. Header length includes:
 - MAGNEO, covers and end caps.
- C. Connection kit:
 - #10 x 2" [51] SPAX flathead Phillips screws to mount wall angle bracket.
 - 5/16" - 24 x 3/8" [10] socket head cap screws to mount header.
 - Shim kit.

A.2 Finishes

- A. Extruded cover:
 - Clear anodized (BHMA 204), customer anodized, custom painted or cladding.
- B. End caps - painted silver.
- C. MANET panel hanging hardware - stainless steel.

A.3 Typical package options.

- A. Concealed lock. (DK3588-010)
- B. Electronic bolt kit. (DK3305-0_G)
- C. Recessed door grip. (DK3309-01G)
- D. Elegant Touch/Touchless Activation (DX3337-0_)
- E. Ladder pulls (DK3308-0_G)
- F. Other pull handles: Reference applicable door hardware manual.

A.4 Drawing notes.

- A. Drawing dimensions are in English & Metric units. Metric units are displayed as: 1" [24] millimeters.
- B. Operator lengths are fixed (Ref. Table A1.1).
- C. Operator weight: 23 lb [80 kg].
- D. Maximum panel weight: 175 lb [80 kg].
 - 3/8" glass = Max. 36 ft²
 - 1/2" glass = Max. 27 ft²

A.5 Power requirements.

- A. 115 Vac, 50/60 Hz, 15 A max., 14 AWG (per operator).

A.6 Standards of compliance.

- A. UL 325 & CSA 22.2 (listed with ETL).
- B. Designed to comply with these standards depending on installation and application.
 - International Building Code (Section 1008).
 - ANSI/BHMA 156.10 (Requires additional overhead activation and safety sensors).
 - ANSI/BHMA 156.38 (Requires additional knowing activation sensors).
 - NFPA 101 Life Safety Code (Section 7.2.1.9).
- C. For egress minimum door height and minimum/maximum width requirements, refer to Local, State, National or AHJ Building Code.

A.7 Contact dormakaba Architectural Services for additional information:

- A. Email: SPECNOW@dormakaba.com
- B. Phone: 1-844-SPEC-NOW (1-844-773-2669)

NOTICE

THIS PRODUCT DOES NOT BREAKOUT; NOT INTENDED FOR EMERGENCY EGRESS.

Table A.1 MAGNEO fixed sizes

MAGNEO available in three (3) fixed sizes (By operator length)						
Operator Length	Min. Clear Opening	Max. Clear Opening	Overall Header Length	Fixed Panel Mounts	End Bracket Location	Center Bracket Location
68.90" [1750]	25" [635]	32" [813]	72.42" [1840]	22.64" [575]	66.73" [1695]	34.45" [875]
78.74" [2000]	30 3/8" [937]	36 7/8" [937]	82.28" [2-90]	27.56" [700]	76.57" [1945]	39.37" [1000]
88.58" [2250]	34 1/4" [870]	41 3/4" [1061]	92.11" [2340]	32.48" [825]	86.42" [2195]	44.30" [1125]

Operator Length	Minimum Travel	Maximum Travel	Minimum Panel Width
68.90" [1750]	27.56" [700]	34.45" [875]	30" [762]
78.74" [2000]	32.87" [835]	39.37" [1000]	35.39" [899]
88.58" [2250]	36.81" [935]	44.30" [1125]	39.33" [999]

← Shown in Fig. A1.1

Fig. A.1 MAGNEO single MANET on wall elevation drawing

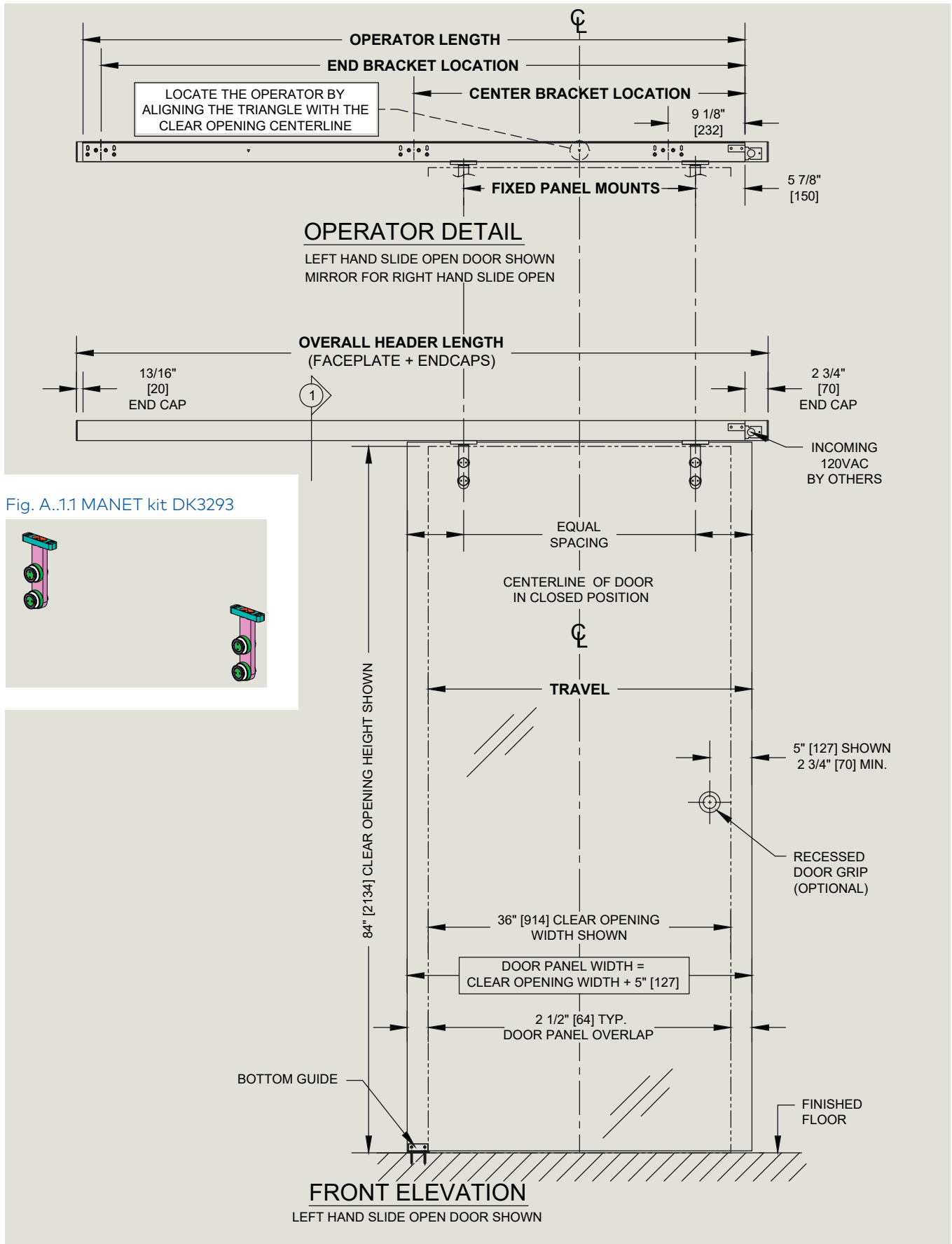


Fig. A..1.1 MANET kit DK3293

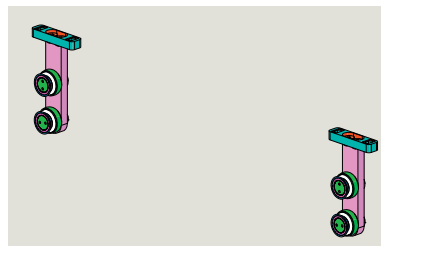


Fig. A.2 MAGNEO door panel detail

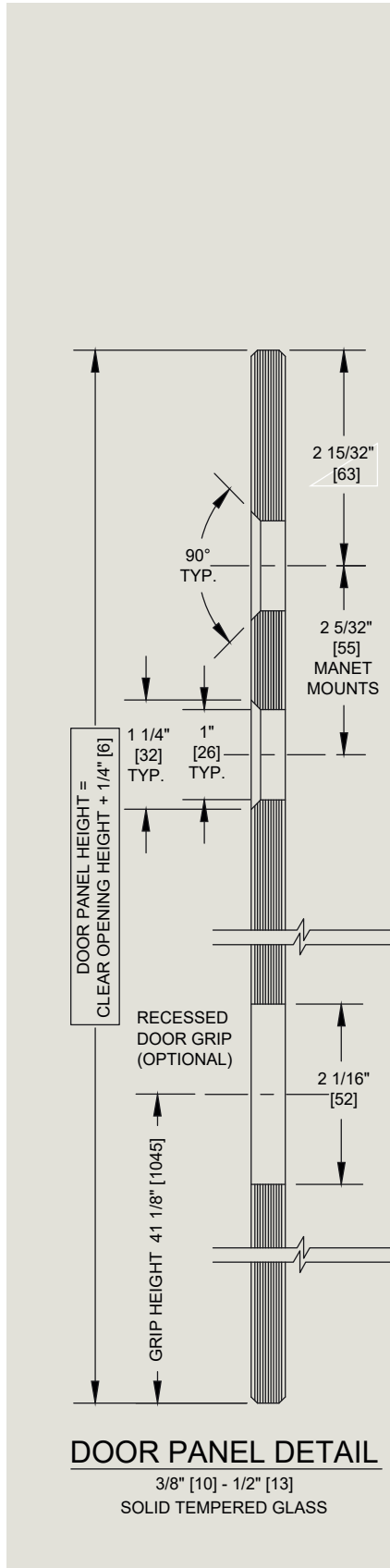


Fig. A.3 MAGNEO SECTION 1

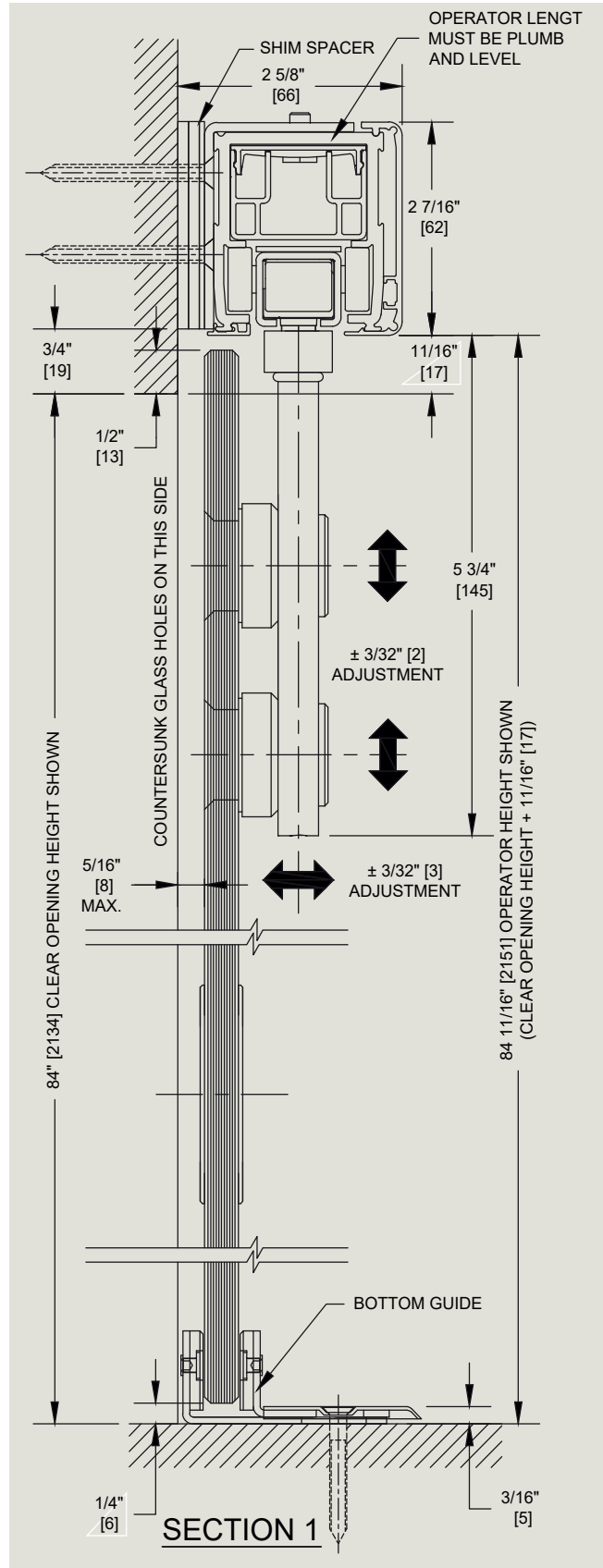


Fig. A.4 MAGNEO FIXED PANEL MOUNTS - Left hand slide open door, Optional recessed door grip

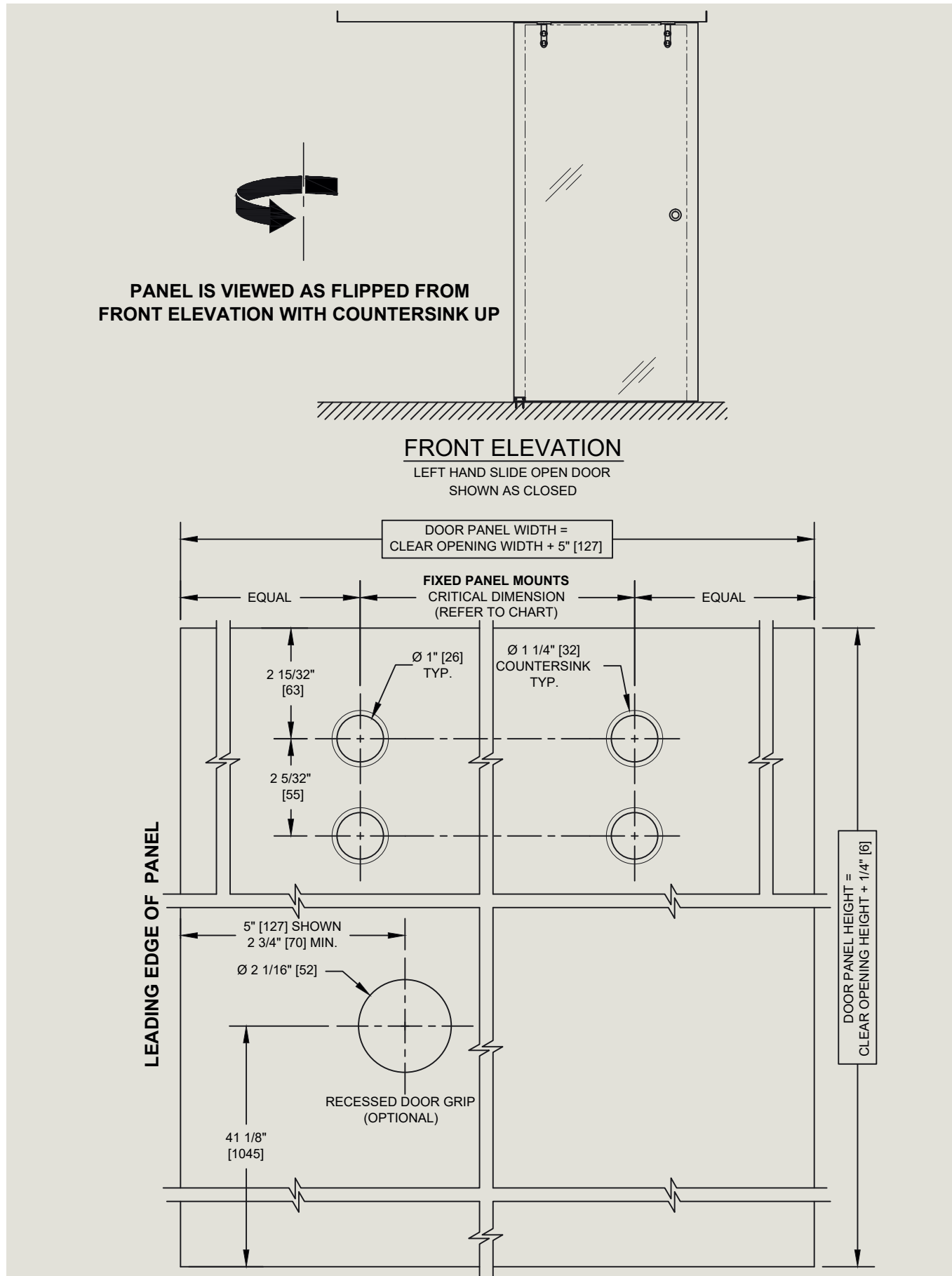
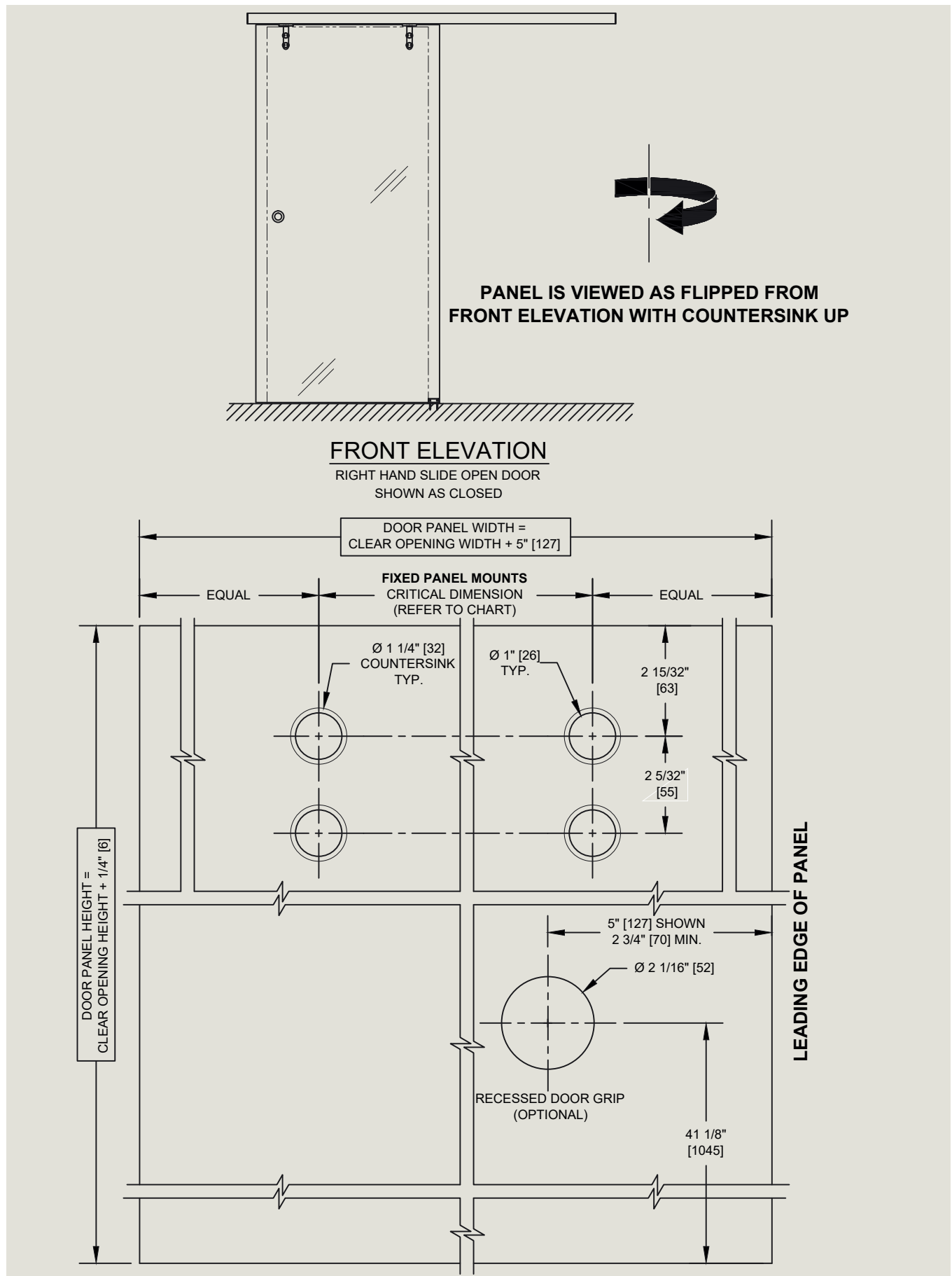


Fig. A.5 MAGNEO FIXED PANEL MOUNTS - Right hand slide open door, Optional recessed door grip



A.8 Symmetrical panel for Single MAGNEO doors using magnet mounts.

- A. Door panel to be provided by others.
- B. Maximum Panel Weight = 175 lb. [80 kg].
 - 3/8" Glass = Max. 36 ft²
 - 1/2" Glass = Max. 27 ft²
- C. Glass width varies among header lengths.
- D. Glass must be solid tempered.

Table A.2 MAGNEO symmetrical panel

Operator Length	Fixed Panel Mounts	Minimum Panel Width
68.90" [1750]	22.64" [575]	30" [762]
78.74" [2000]	27.56" [700]	35.39" [899]
88.58" [2250]	32.48" [825]	39.33" [999]

A.9 Recessed door grip.

Fig. A.7 Recessed door grip

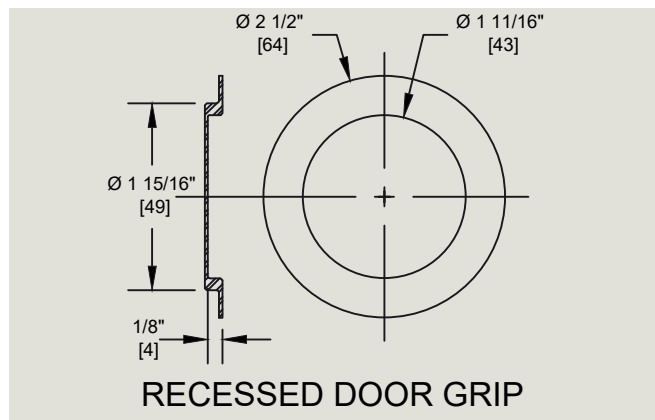
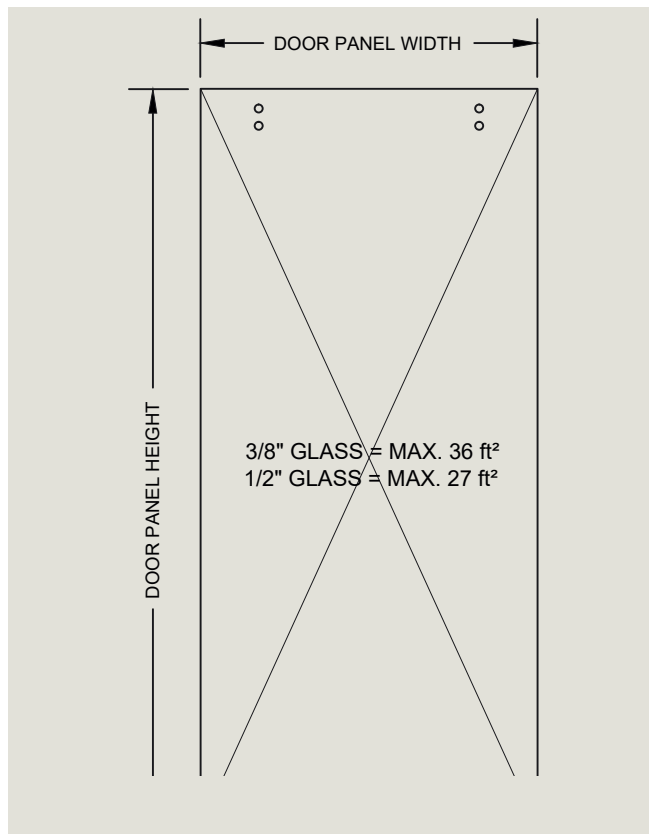


Fig. A.6 MAGNEO symmetrical panel



Appendix B – MANET recessed pull grips

B.1 Safety-related information for the mounting and use of dormakaba glass fittings

Follow these instructions in addition to the Installation and Maintenance Instructions in order to avoid damage of product or property and injury to persons.

NOTICE

All users have to be informed about relevant points referenced in these safety-related instructions and the Installation and Maintenance Instructions.

B.1.1 General information.

1. dormakaba recommends using TSG-H (heat soaked toughened safety glass) to DIN EN 12150-1).
2. dormakaba glass fittings are not suitable for applications in rooms where chemicals (e.g. chlorine) are used, such as in indoor swimming pools, saunas, or salt water pools.
3. Never move sliding glass panels faster than walking speed and always stop the door manually before it reaches the end position.

B.1.2 Mounting

1. Only properly qualified and specially trained staff are authorized to mount dormakaba glass fittings.
2. Never use glass with conchoidal fractures and/or damaged edges.
3. Due to crushing hazards, among others in the area of the secondary closing edge, and possible injury caused by the breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) are required.
4. Before mounting the glass fitting, clean clamping area with fat solvent (standard commercial cleaning agent).
5. Never use clamping shoes on structured glass surfaces (except on satined glass) or glass of heavily varying thickness unless used with a corresponding leveling layer.
6. Never use clamping shoes on self-cleaning coatings.
7. When adjusting glass elements, always maintain the required clearance for the respective fitting. Adjust clearance so that the glass does not touch hard components such as glass, metal or concrete.
8. Make sure not to use excessive force when installing the glass (avoid local stress resulting from very tight screws).

B.1.3 Maintenance

1. Check fittings at regular intervals for proper positioning and smooth running.
2. Check door for correct adjustment.
3. Highly used door systems require inspection by properly qualified staff (specialized companies or installation firms).
4. Immediately replace damaged glass elements (no glass flaking and/or conchoidal fractures)!
5. Only use suitable cleaning and care products to clean the surfaces.

B.2 MANET recessed pull grip Ø 50 mm

80052-228-632

B.2.1 Installation instructions.

Installation sequence: 1.; 1.1;

NOTICE

All glass clamping areas must be cleaned with standard glass cleaning products prior to installation.

CAUTION

Do not use thinners!

Fig. B.2.1 Sliding door and wall

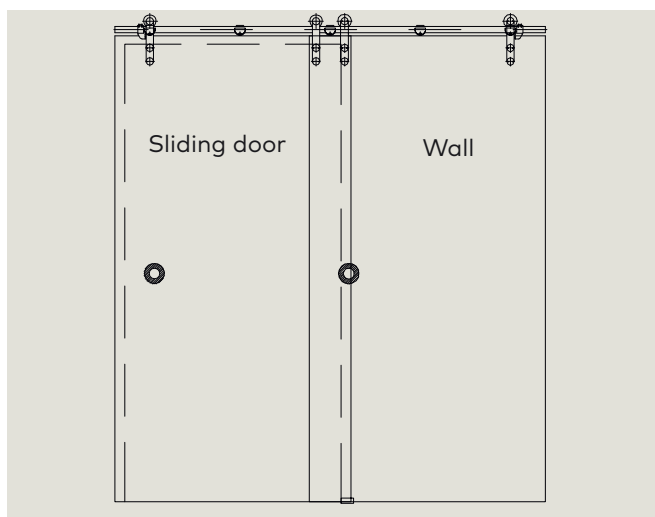


Fig. B.2.2 Glass preparation
Recessed pull grip scope of delivery

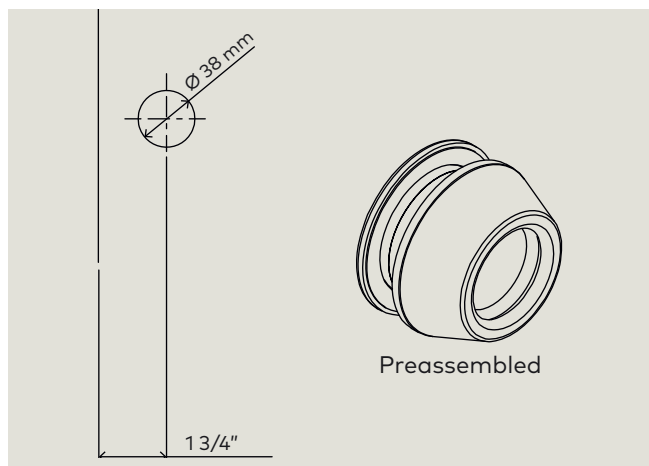


Fig. B.2.3 Preparation of the recessed pull grip

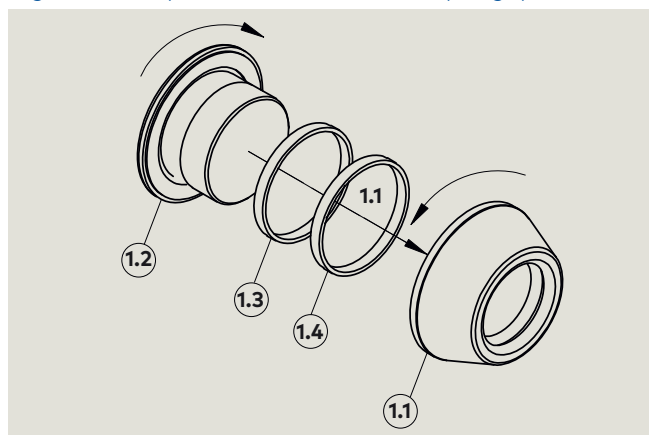
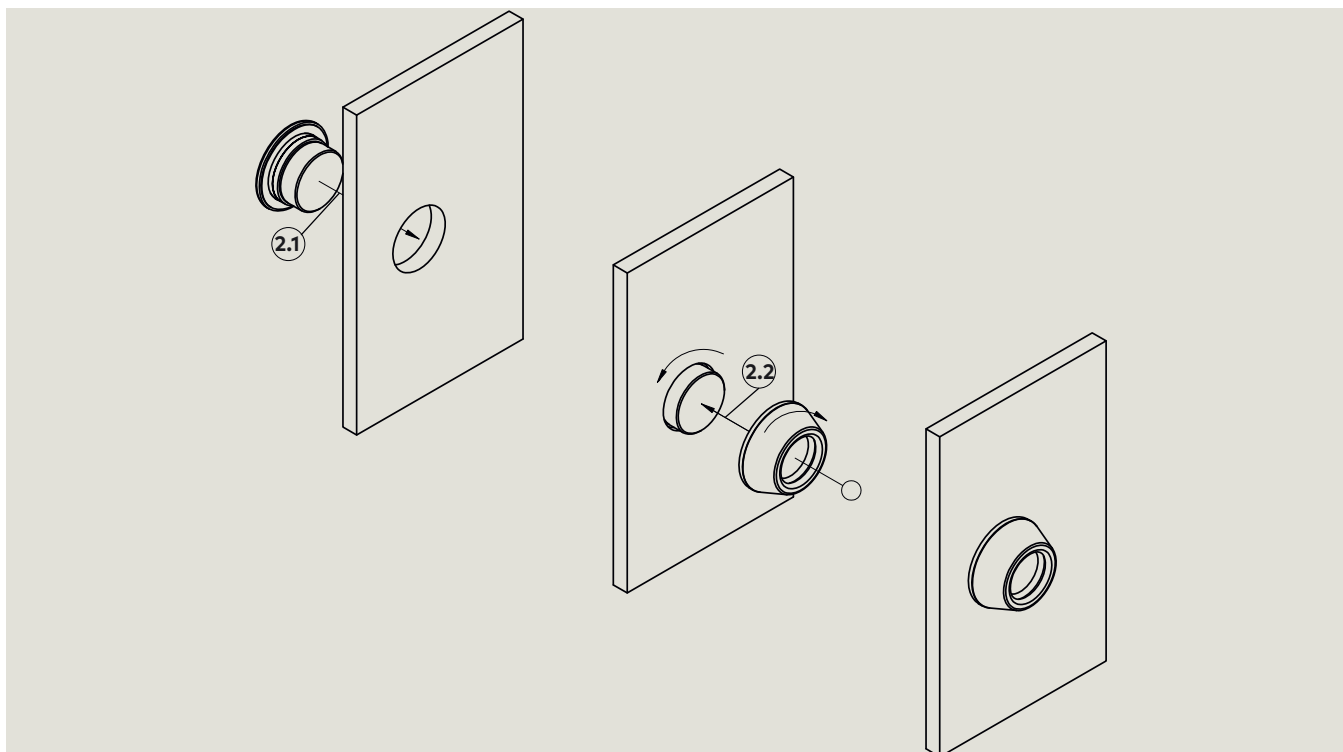


Fig. B.2.4. Recessed pull grip installation



B.3 MANET recessed pull grip Ø 60 mm

B.3.1 Installation instructions.

Installation sequence: 1.1; 1.2;

NOTICE

All glass clamping areas must be cleaned with standard glass cleaning products prior to installation.

CAUTION

Do not use thinners!

Fig. B.3.1 Glass clamping area

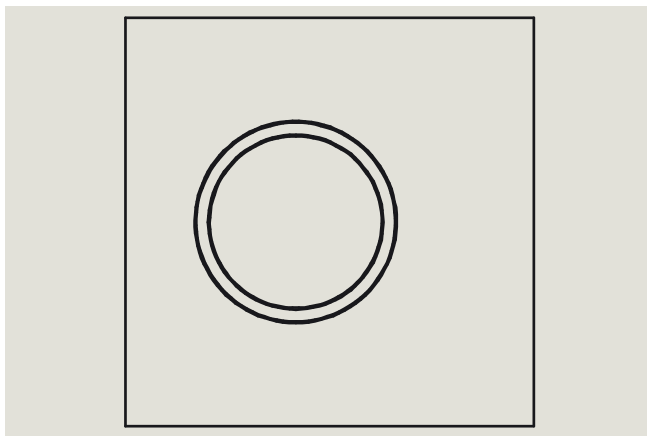


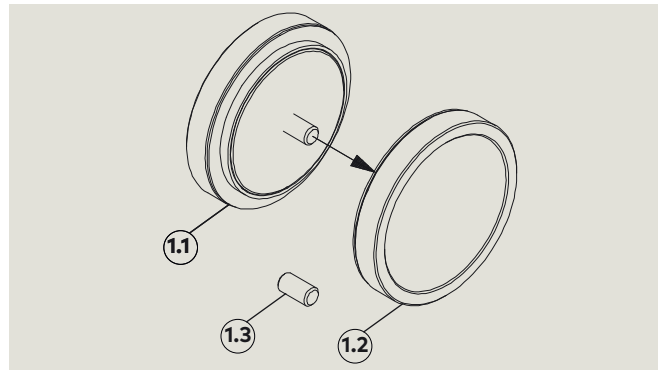
Fig. B.3.2 Recessed pull grip scope of delivery



Preassembled for 10/12 mm glass.

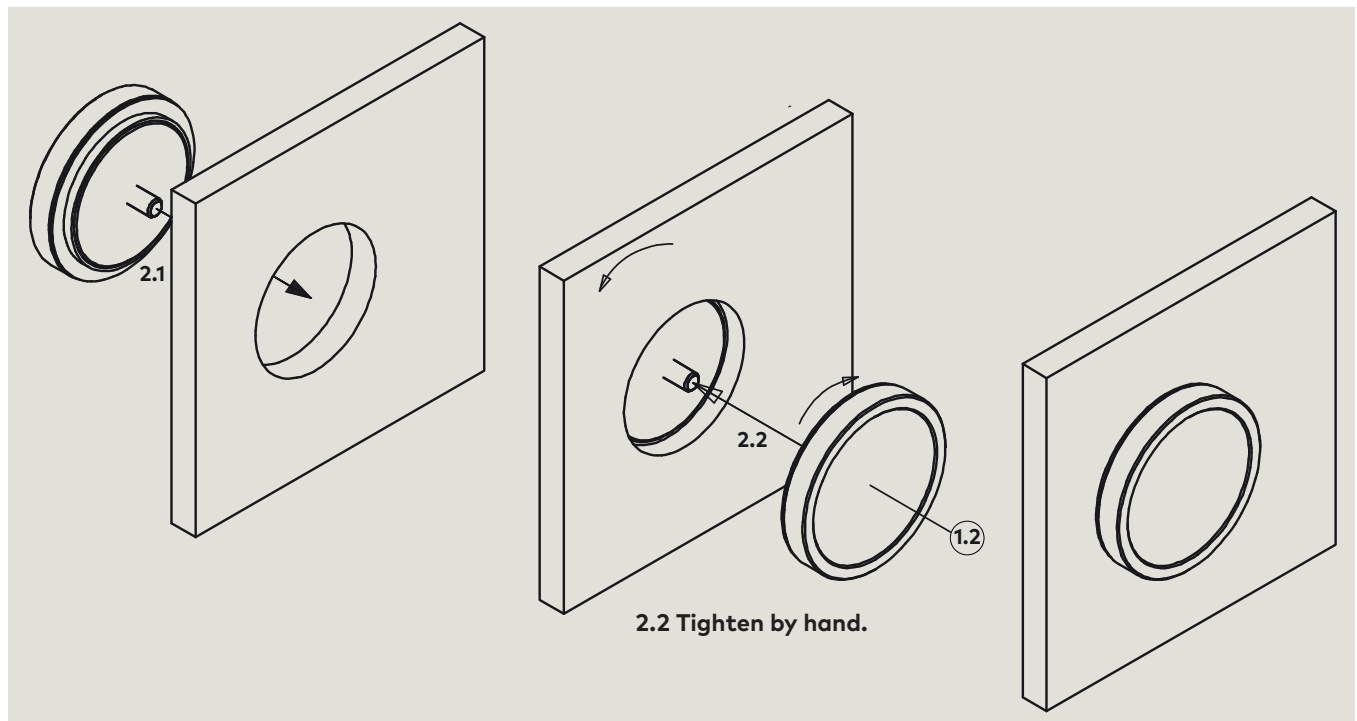
Setscrew for 8 mm glass is enclosed.

Fig. B.3.3 Preparation of recessed pull grip



With 8 mm of glass, install the setscrew!

Fig. B.3.4 Recessed pull grip installation



Appendix C – Power Fail Locking

C.1 Functional description

NOTICE

In conjunction with an electromechanical locking device, an external program switch is required.

- C1.1 When program switch set to "OFF", the operator closes and locks the door.
- C1.2 Whenever an opening pulse is triggered at the "internal activator" (terminals 3 and 42), the locking device unlocks and the operator opens the door.
- C1.3 On expiration of the adjusted hold open time, the operator closes and locks the door.



WARNING

Safety instructions () "Mounting instructions and instructions for use of operator" must be observed.

- C1.5 An opening pulse at the "external activator" (terminals 3 and 41), has no effect while the program switch is set to "OFF". These terminals are only activated while the program switch is set to "AUTOMATIC" mode (reference operating instructions).
- C1.6 In the event of a power failure, the locking device unlocks so that users may manually open the door.

C.2 Mounting

NOTICE

Preparation of mounting:

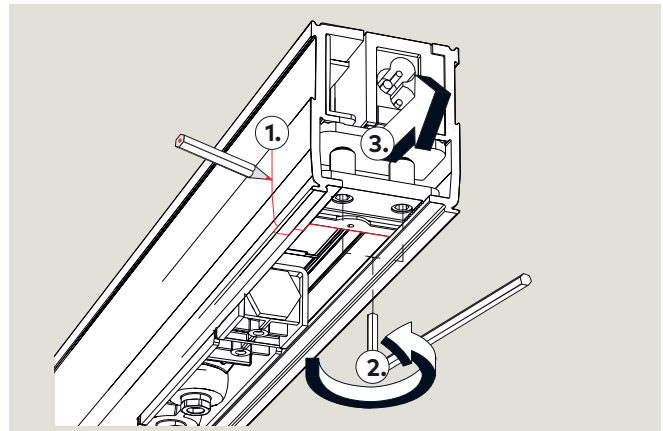
- 1) Determine "closed" position.
- 2) Mount drive unit.
- 3) Attach door panel and move door to "closed" position.

C2.1 Overview: Removing end stop attachment screws and end stop.

- 1. Carefully pull out carrier until the attachment screws of the "stop" are visible.
- 2. Remove end stop screws; remove end stop.

Reference Para. C2.2 through C2.9 for step by step instructions.

Fig. C2.1 End stop attachment screw removal



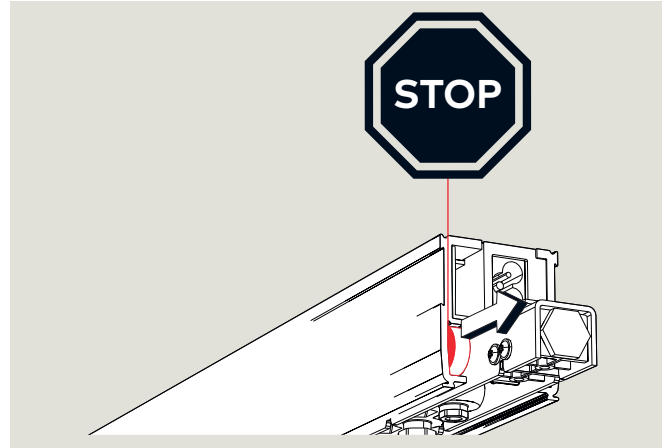
C2.2 Removing end stop attachment screws and end stop.

1. Carefully pull out carrier until attachment screws of the "stop" are visible.

CAUTION

Do not pull carrier further than required to access "stop" attachment screws!

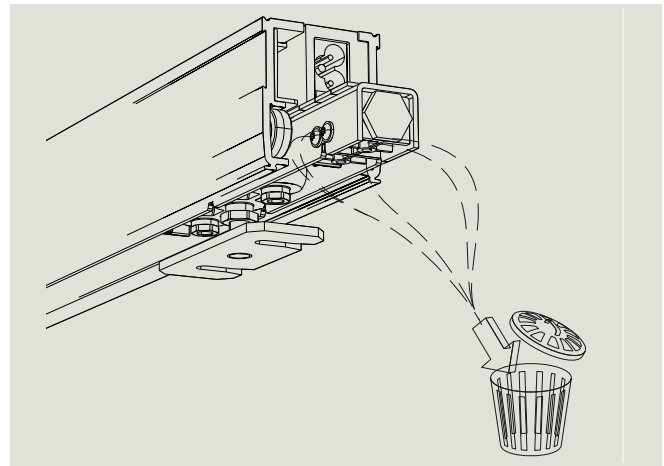
Fig. C2.2 End stop



C2.3 Removing "stop" attachment screws and "stop".

1. Remove screws in Fig. C2.3 and the "stop".

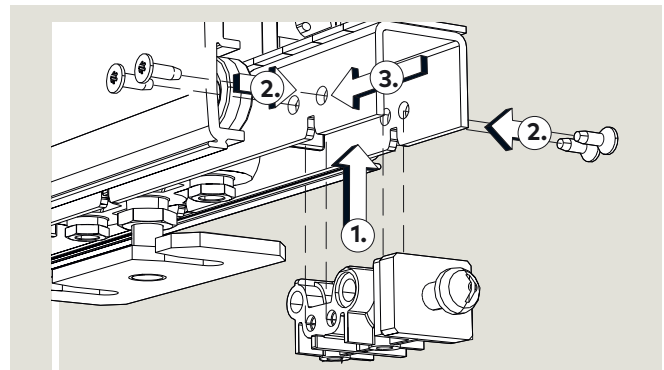
Fig. C2.3 "Stop" and attachment screws



C2.4 Install new plastic bracket with lock bolt.

1. Insert plastic bracket with lock bolt.
2. Use the 4 supplied countersunk holes to secure the bracket to the carrier.
3. Push carrier back into track rail.

Fig. C2.4 Plastic bracket with lock bolt



C2.5a, b, c, d Install all required cables.

Fig. C2.5 Locking cable wiring diagram

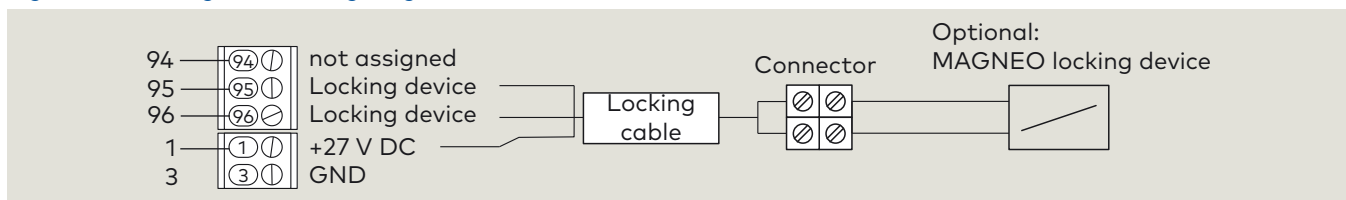


Fig. C2.5a Locking cable

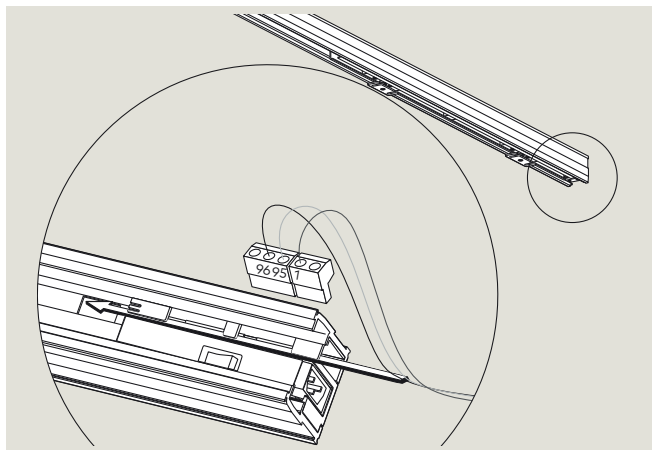


Fig. C2.5b Locking cable routing

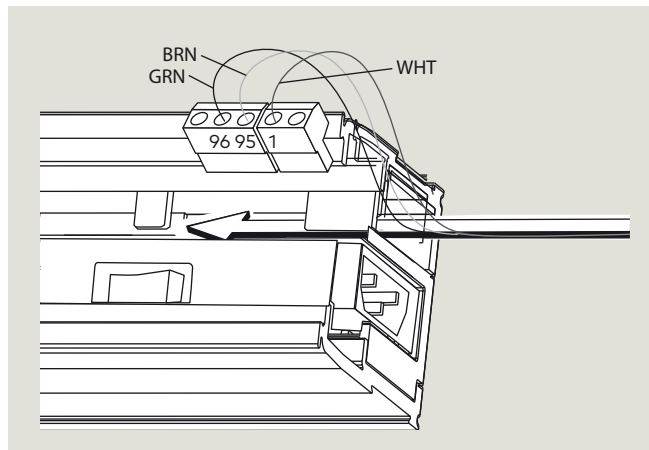


Fig. C2.5c Locking cable routing

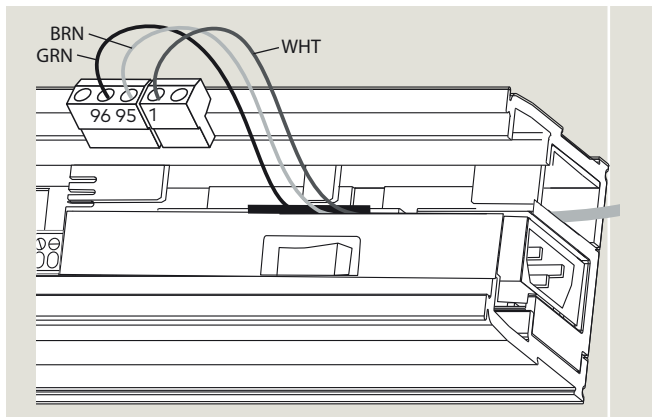
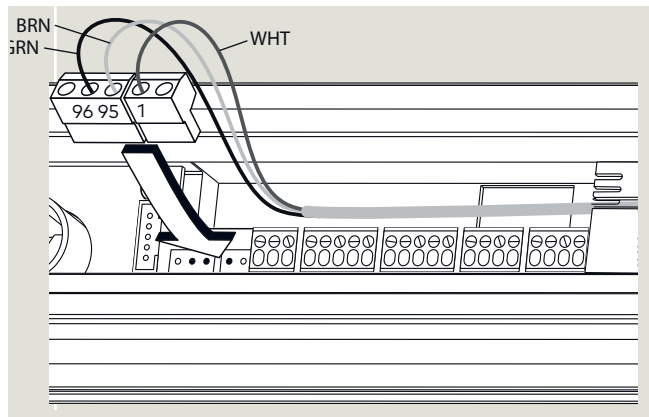


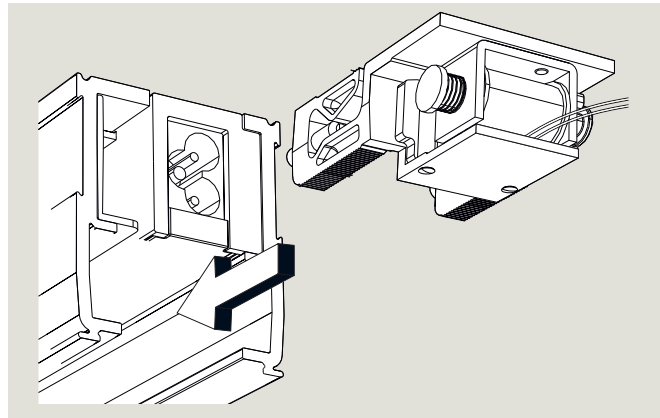
Fig. C2.5d Locking cable terminal installation



C2.6 Install locking device into track rail.

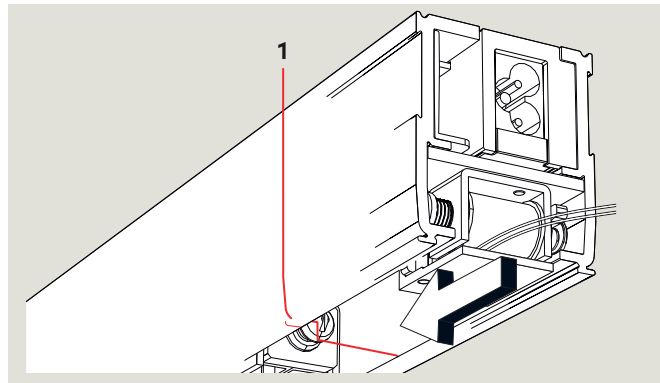
1. Align and push locking device into track rail.

Fig. C2.6 Locking device aligned with track rail

**C2.7 Position locking device and screw down.**

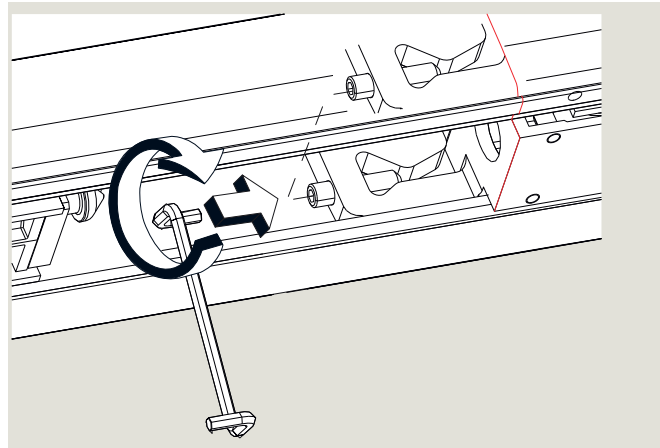
1. Push locking device on track rail until it meets mark (1) and screw down.

Fig. C2.7 Locking device positioned at mark (1)

**C2.8 Mount drive unit, attach door panel and move to "closed" position.**

1. Mount drive unit.
2. Attach door panel.
3. Move door panel until it reaches the selected "closed" position.
4. Check if carrier and locking device are flush.

Fig. C2.8 Secure carrier with special key

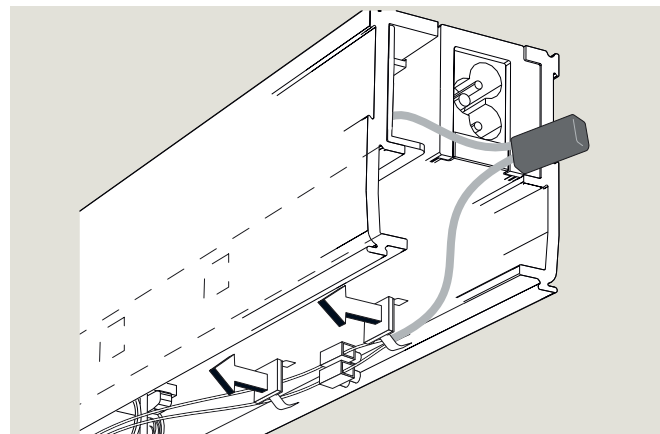
**C2.9 Push carrier back into position and secure.**

1. Push carrier back into position.
2. Screw down with the supplied special key.

Fig. C2.9 Secure connection cable

C2.10 Secure connection cable to track rail.

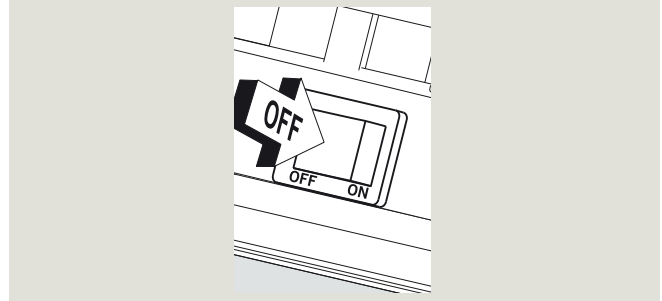
1. Secure connection cable to track rail.
2. Fix in position.



Appendix D – Additional set for safety sensor

D.1 Turn power switch OFF.

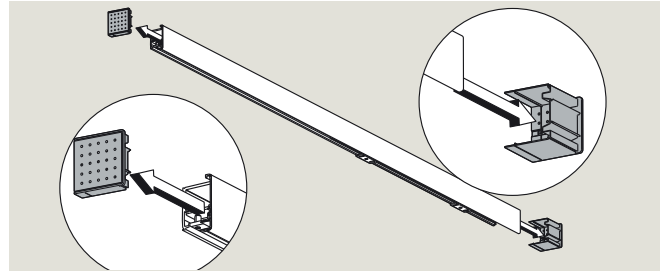
Fig. D.1 Power switch OFF



D.2 Remove end caps.

1. Use flat blade screwdriver to unsnap cover from operator.
2. Remove cover.

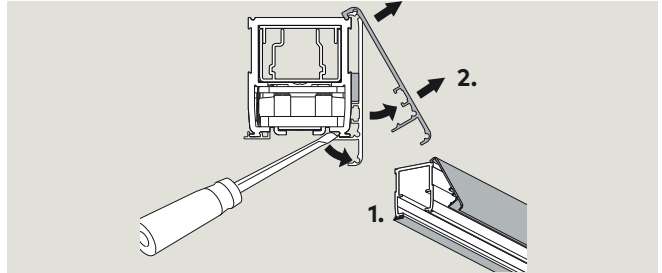
Fig. D.2 End caps removal



D.3 Remove cover.

1. Use flat blade screwdriver to unsnap cover from operator.
2. Remove cover.

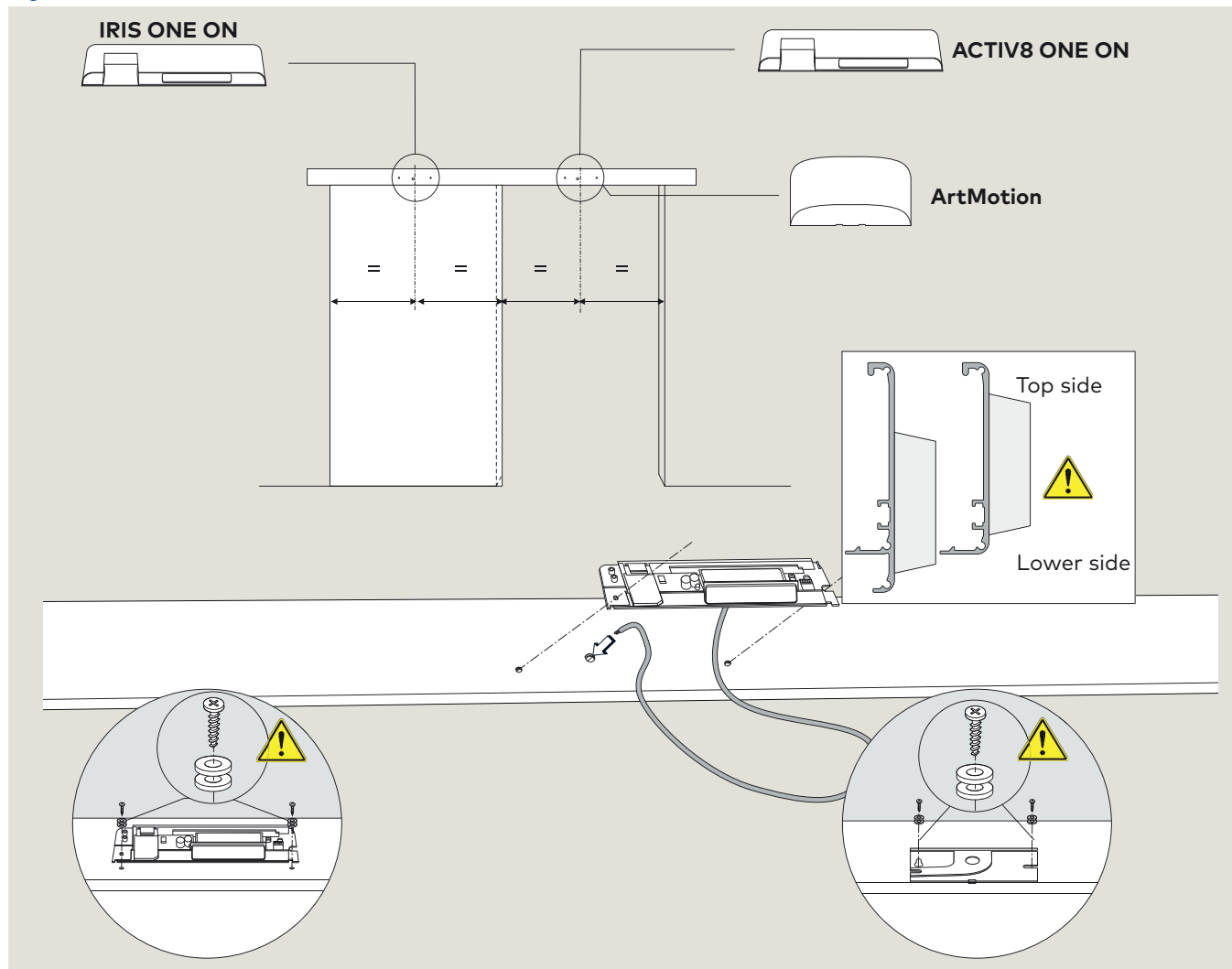
Fig. D.3 Cover removal



D.4 Sensor installation.

Use drill template supplied by sensor manufacturer.

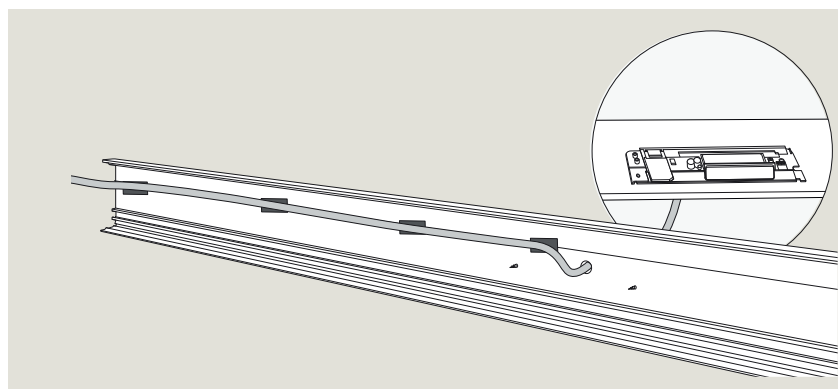
Fig. D.4 Sensor installation on cover



D.5 Sensor wiring routing.

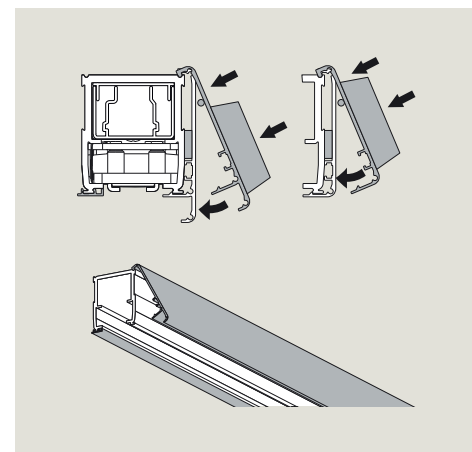
Reference sensor manufacturer wiring documentation and Fig. C3.2 for wiring.

Fig. D.5 Sensor wiring routing on cover



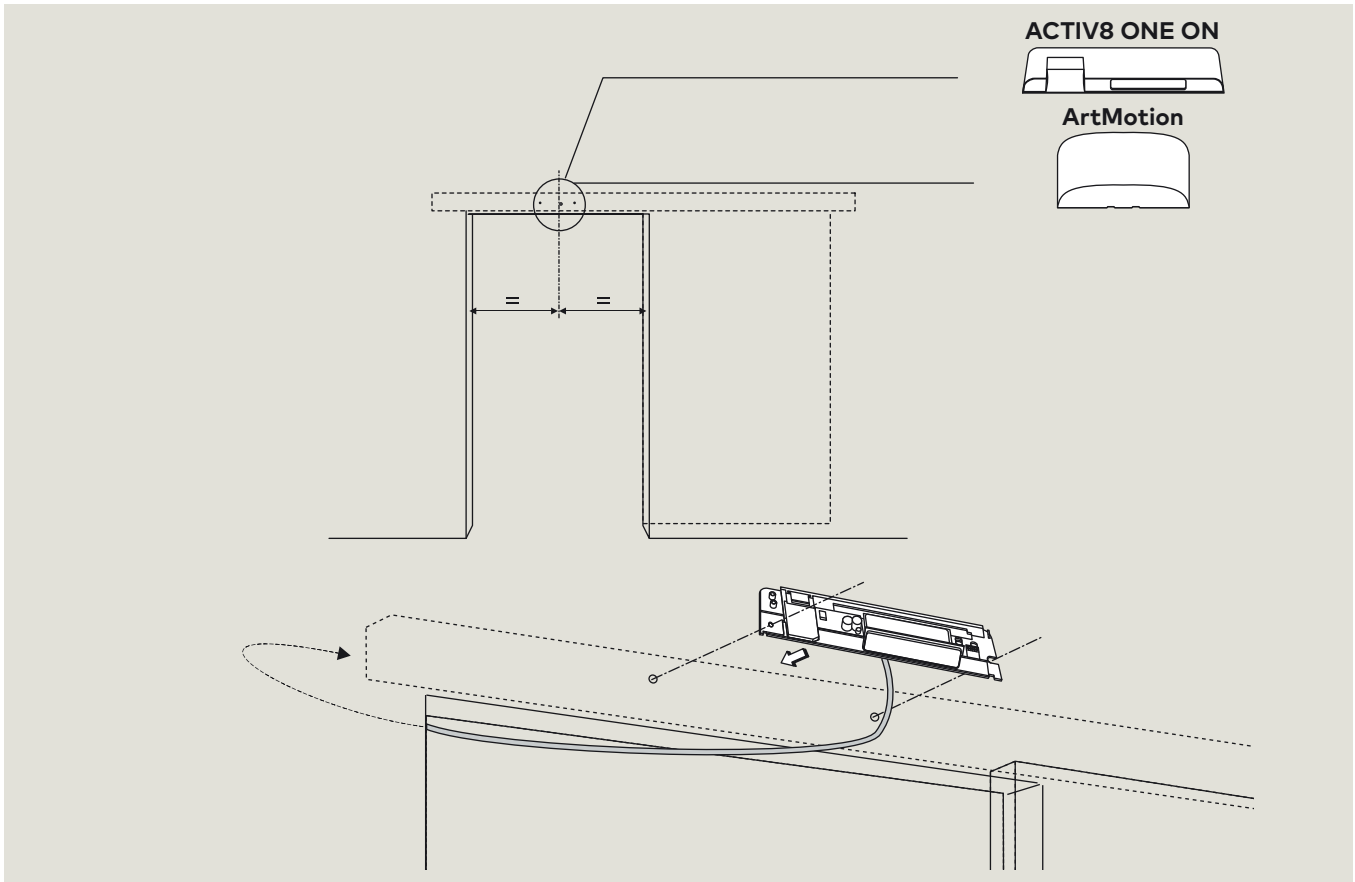
D.6 Cover with sensor installation.

Fig. D.6 Sensor and cover installation



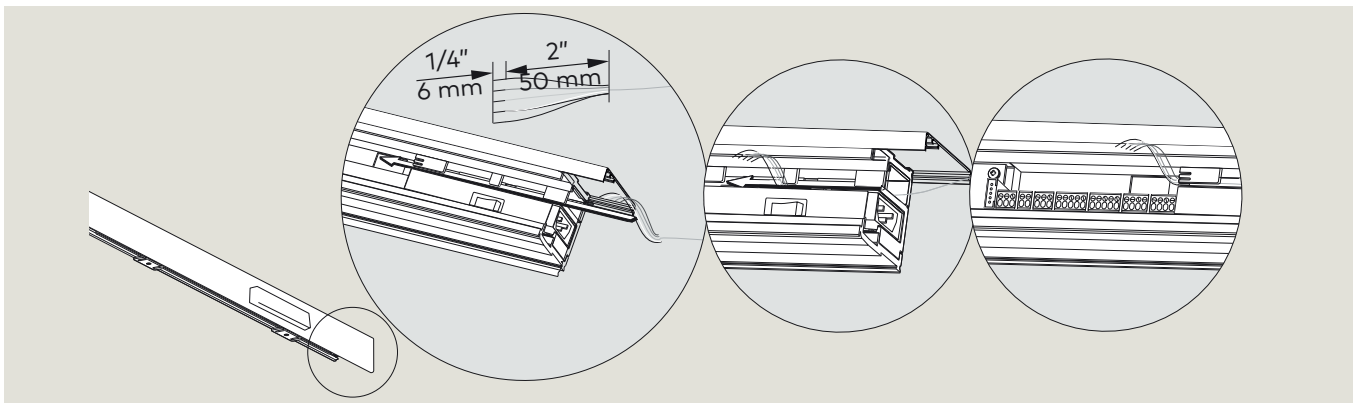
D.7 Additional set for safety sensor.

Fig. D.7 Sensor installation on cover



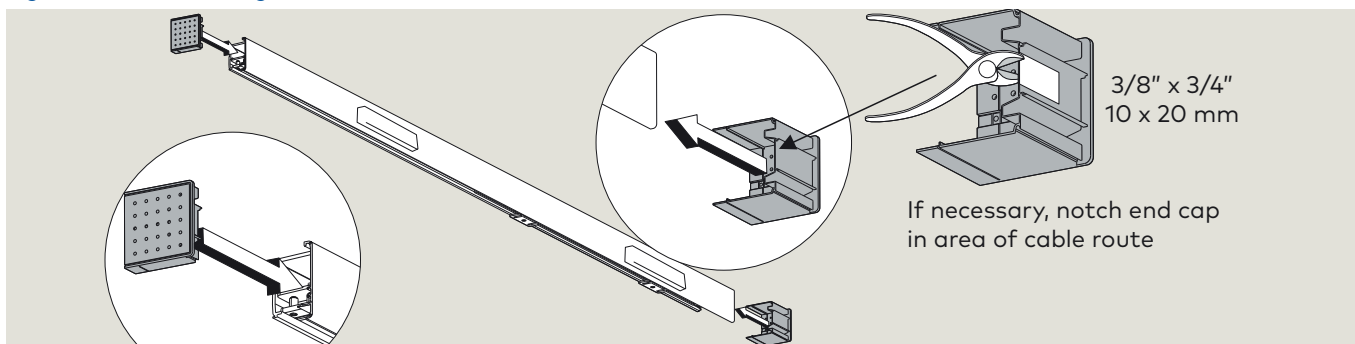
D.8 Sensor wiring routing.

Fig. D.8 Sensor wiring routing



D.9 Cover end cap installation.

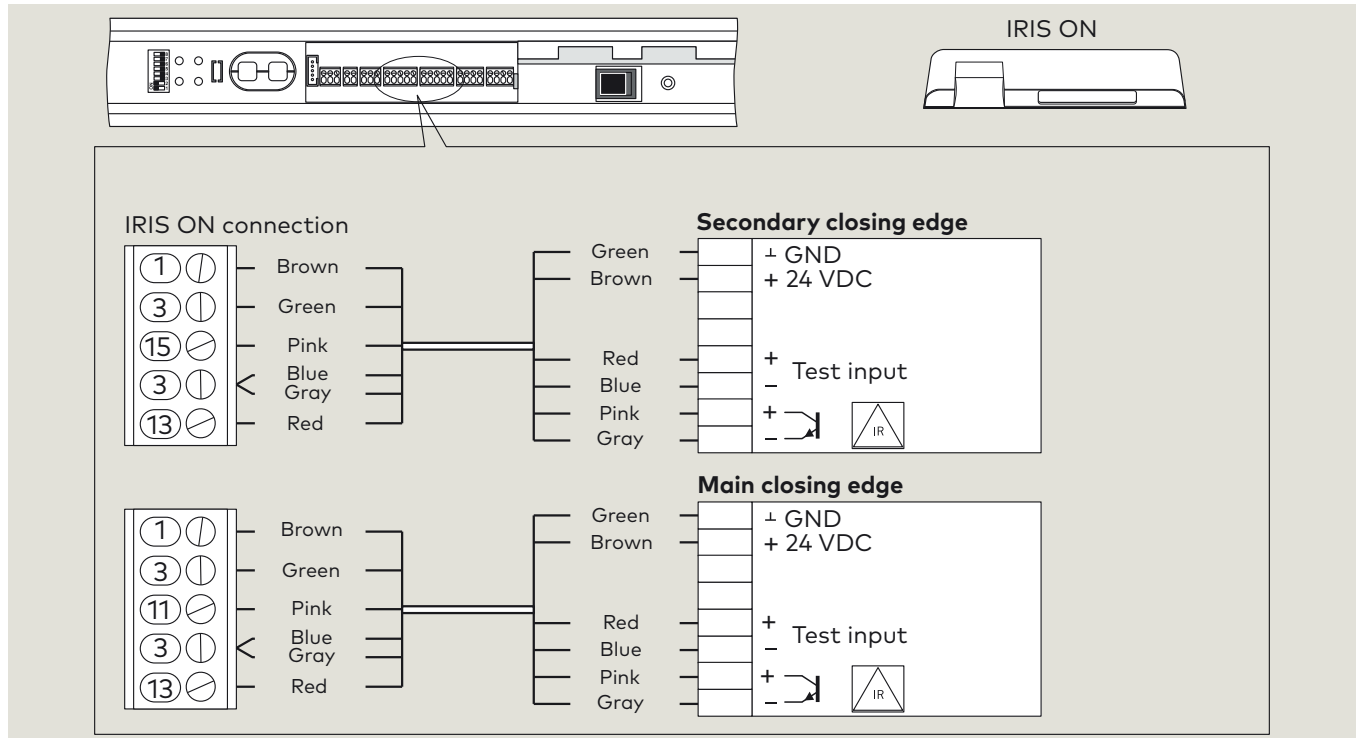
Fig. D.9 Sensor wiring



D.10 IRIS ON sensor wiring.

Refer to IRIS ON installations instructions for operation instructions.

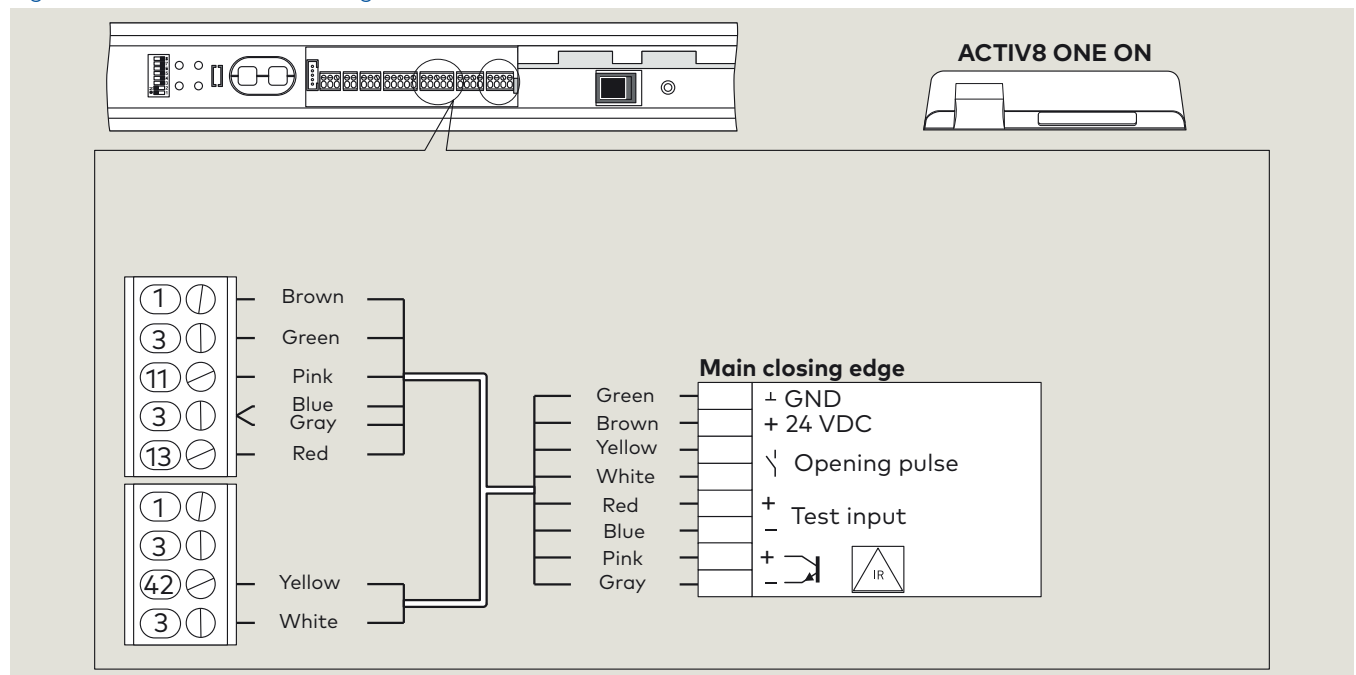
Fig. D.10 IRIS ON sensor wiring



D.11 ACTIV8 sensor wiring.

Refer to ACTIV8 installation instructions for operation instructions.

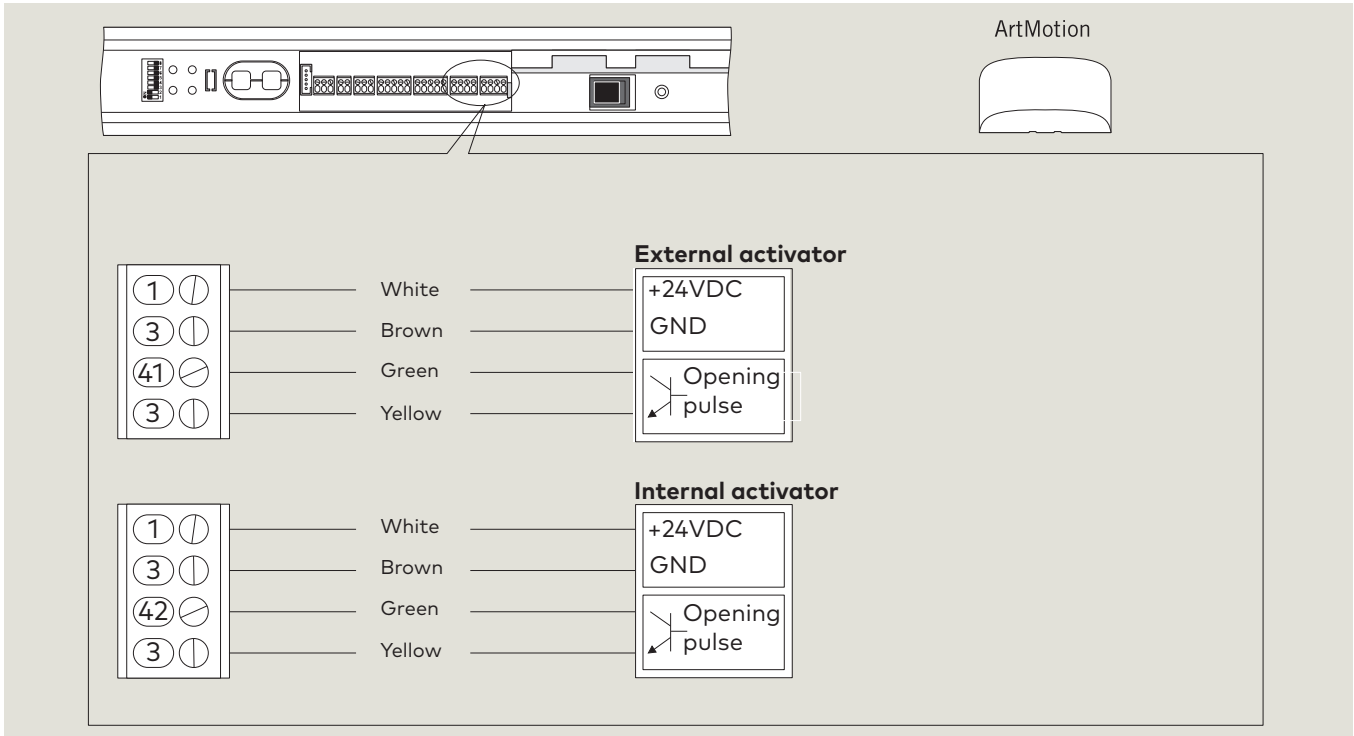
Fig. D.11 ACTIV8 sensor wiring



D.12 Art Motion sensor wiring.

Refer to Art Motion installations instructions for operation instructions.

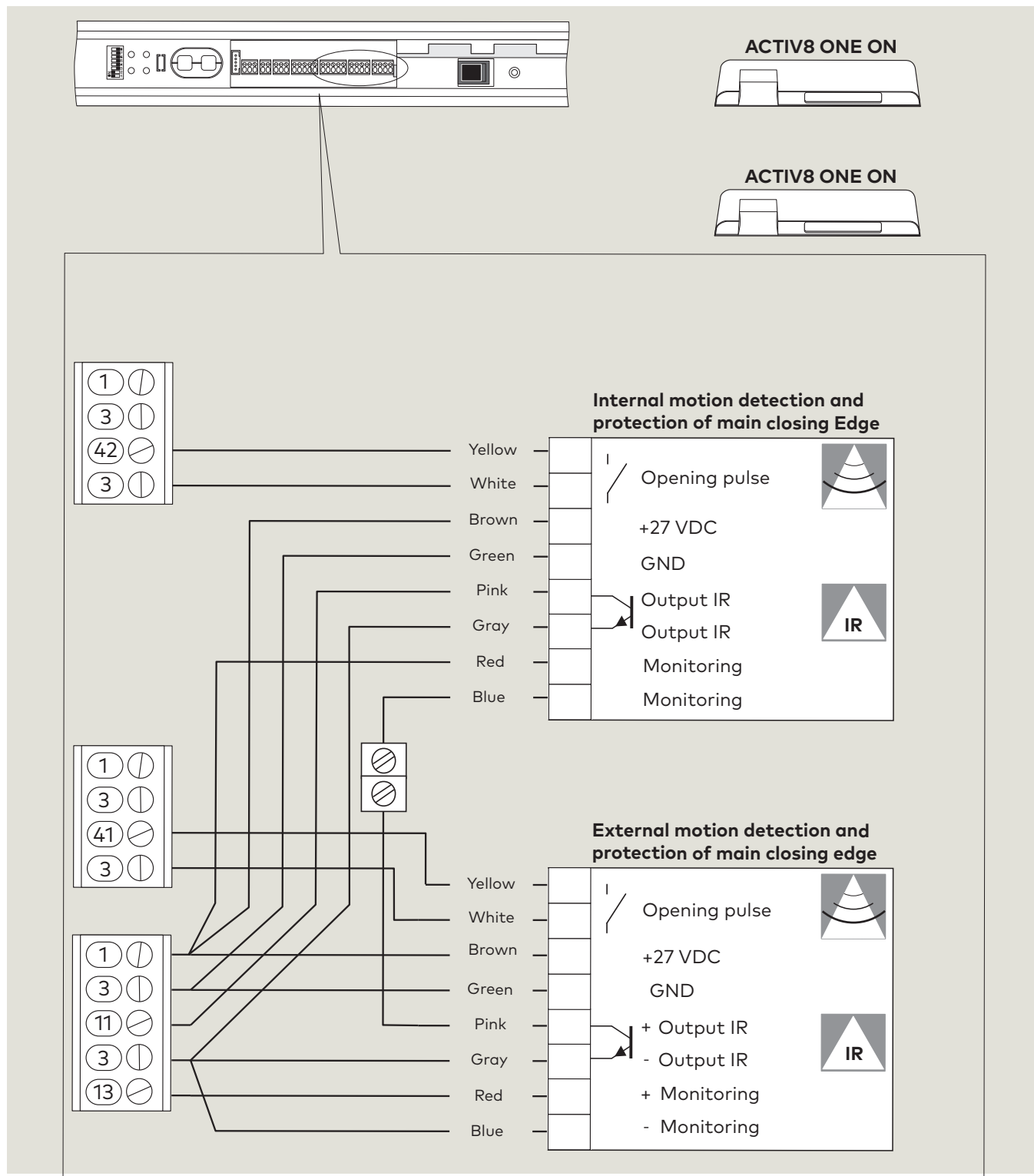
Fig. D.12 Art Motion sensor wiring



D.13 ACTIV8 sensor wiring.

Refer to ACTIV8 installations instructions for operation instructions.

Fig. D.13 ACTIV8 sensor wiring



Appendix E – Install internal mode switch

E.1 Install program switch - overview.



TIPS AND RECOMMENDATIONS

Mode switch kit: DS3304-010

Fig. E.1 DS3304 Mode switch kit



E.2 Remove end cap.

1. Put Mode switch in OFF position.
2. Remove end cap.

E.3 Cutout end cap switch cover for switch.

1. Use box cutter to cutout end cap switch cover for Mode switch.

CAUTION

Use caution when using box cutter!

E.4 Install Mode switch in end cap cutout.

Fig. E.2 Mode switch installed in end cap

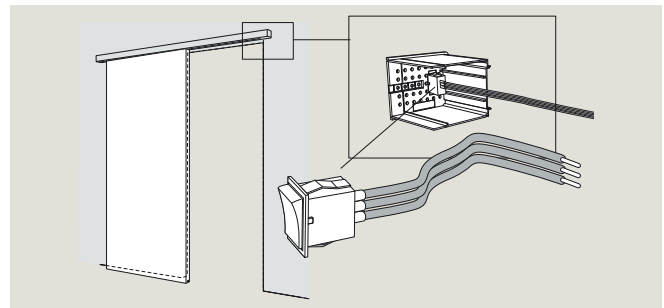


Fig. E.3 Remove end cap

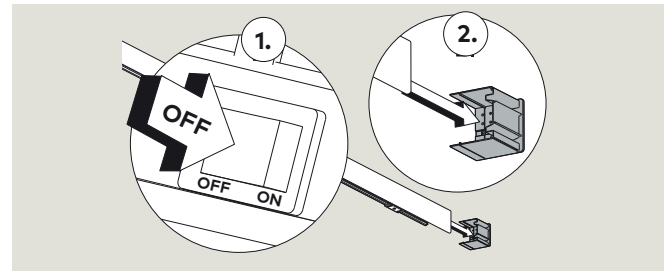


Fig. E.4 Cut out end cap for Mode switch

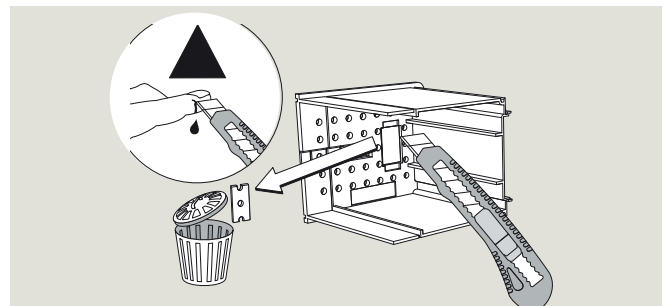
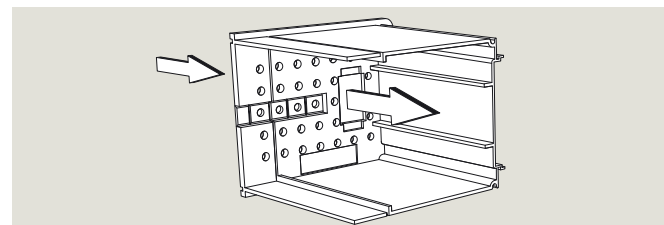


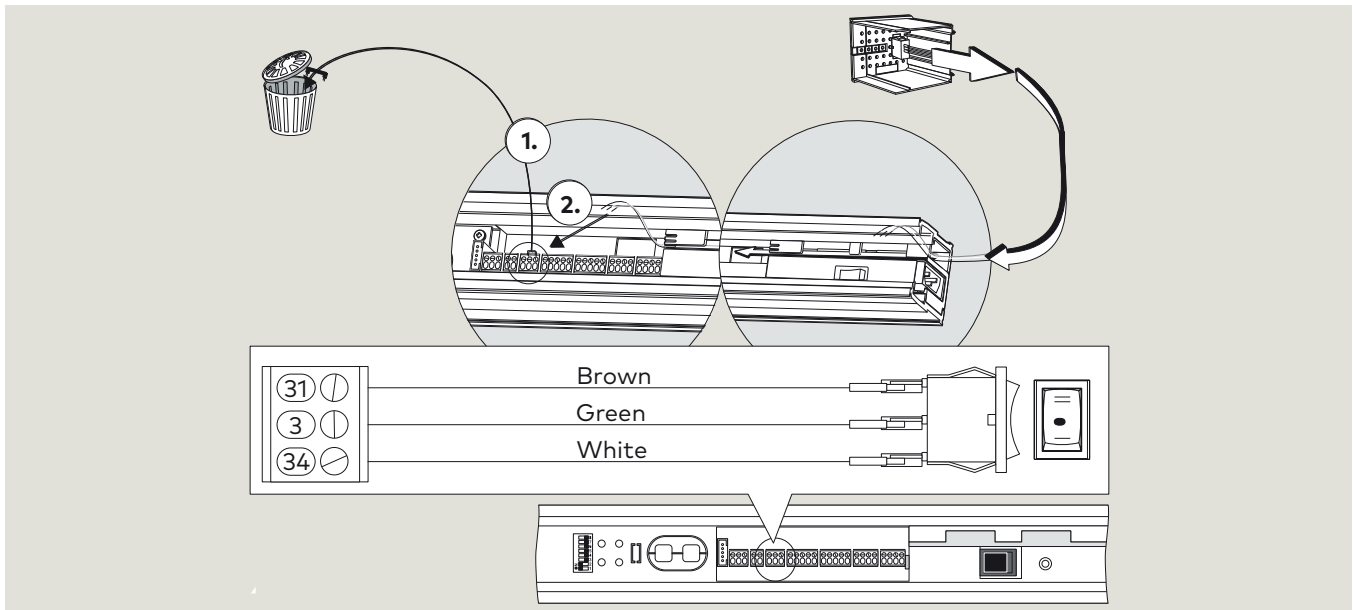
Fig. E.5 Install Mode switch into end cap cutout



E.5 Install and terminate program switch wiring.

1. Remove jumper between terminals 31 and 3.
Discard jumper.
2. Install end cap into CS 80 MAGNEO.
As end cap is installed, route program switch wiring to terminal strip.
3. Strip 1/4" [6 mm] of insulation from ends of wires.
4. Terminate program switch wiring at terminal strip.

Fig. E.6 Mode switch installation



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