dormakaba▨

MUTO Premium XL80 Telescopic

Ceiling mount with sidelites and moving floor guide

Optional Dormotion
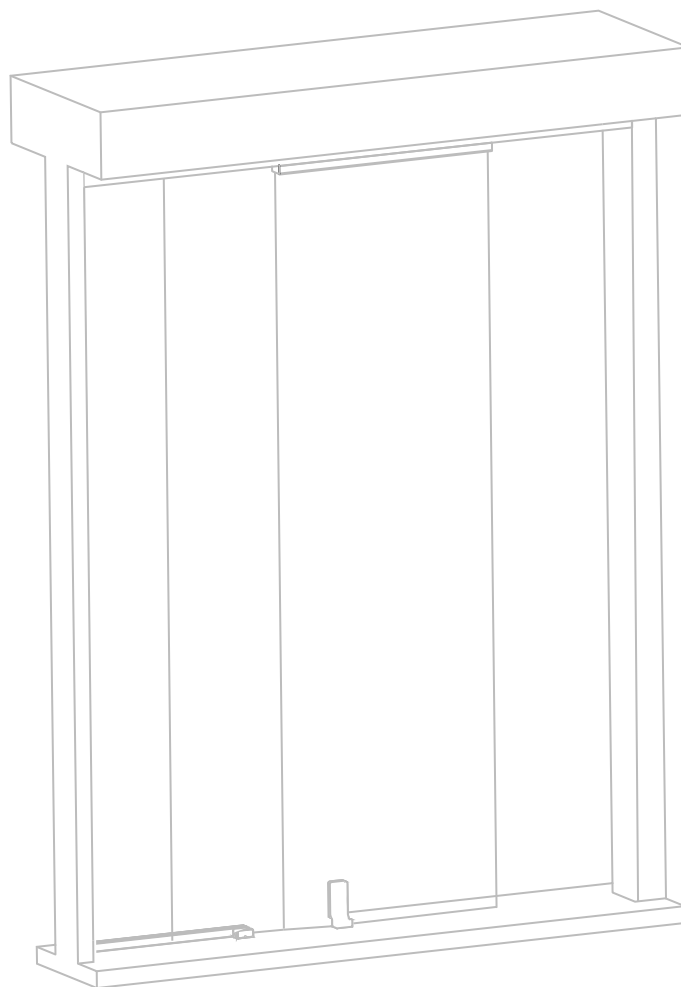
Installation Manual

Table of contents

1 Technical specifications

1.1 Overview

These instructions are for installation of MUTO Premium XL80 Telescopic panels for the following mounting and style versions:

1. Ceiling mount with Sidelite

1.1.1 General information
- dormakaba requires use of tempered laminated or tempered monolithic glass.
- dormakaba glass hardware is not suitable for harsh environment; for example, applications where chemicals (e.g. chlorine) are used such as indoor swimming pools, saunas, or salt-water pools.
- Never move sliding panels faster than walking speed and always stop the door manually before it reaches end position.
- Do not slide doors with excessive force. Ensure proper installation of limiting stop to prevent door from opening too far.

1.1.2 Intended use
- For sliding doors in dry indoor areas only.
- For manual slow opening and closing only.

1.1.3 Glass requirements/fittings/mounting
- The substructure/wall must be able to bear permanent loads, be level (max. tolerance: 1/16" [2] per 39" [1m]).
- Fasteners must be sufficiently dimensioned for the substructure/wall and weight of the door.
- When adjusting glass components, always stick to the required clearance for the respective hardware. Adjust clearance so glass does not come in contact with any hard surfaces such as glass, metal or concrete.
- Do not use excessive force when installing the glass (avoid over tightening screws.)

1.1.4 Requirements for glass panel
- dormakaba requires use of fully tempered glass, which complies with ASTM C 1036 and ASTM C 1048. Secondary heat soaking processes are recommended but not required. This applies to both tempered monolithic and tempered laminated glass.
- Clamping area must be flat and uncoated (no self-cleaning coating!)
- Never use glass with conchoidal fractures and/or damaged edges.

1.1.5 Safety instructions
- Installation requires two people.
- Always wear protective clothing.

- Only properly qualified and specially trained staff are authorized to mount dormakaba glass hardware.
- Due to crushing hazards and possible injury caused by breakage of glass during mounting, corresponding protective clothing (especially gloves and protective goggles) is required.
- Never clamp metal fitting hardware directly to glass surface.

1.1.6 Symbols used - Safety/Installation

⚠️ **CAUTION**

Mounting components must meet the requirements of substructure/wall and door weight. Please read the technical information for fittings.

⚠️ **WARNING**

Risk of breaking glass. When installing the door, support the door panel with a block of wood or similar object.

ℹ️ **TIPS AND RECOMMENDATIONS**

Information note

▶◀ **CLOSING EDGE OF DOOR**

1.1.7 Maintenance, care, repair
- Immediately replace damaged parts.
- Always use original dormakaba parts.
- Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.
- Use a damp cloth for occasional cleaning.
- Always use silicone - and oil-free cleaners (e.g. acetone).
- Check glass hardware at regular intervals for proper positioning, smooth operation and correct adjustment.
- High traffic door systems require inspection by properly qualified staff (specialized companies or installation firms.)

1.1.8 Disposal
Disposal in accordance with local, state and national regulations.

1.2   Specification - technical data

		2 panels	4 panels
		XL80 Telescopic	XL80 Telescopic
Ceiling mount	Door leaf weight lbs [kg] *	2 x ≤176lbs [2 x ≤80]	4 x ≤176lbs [4 x ≤80]
	* Including weight of auxiliary hardware.		

LEGEND	
SMP	Slow moving panel
QMP	Quick moving panel

1.3   Tempered laminate glass (TLG) and adhesive specifications

Required parts for laminate glass with MUTO System (not included)	Part Number	Quantity	Usage recommendation
3M™ Scotch-Weld™ Urethane Adhesive, DP 605 NS	934.800	1 tube	1 tube per 4 roller carriers
3M™ Scotch-Weld™ EPX™ Plus II Applicator with 1:1 Plunger [2]	934.801	1 applicator	1:1 plunger with 934.800 adhesive
3M™ Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle, 5.3mm [3]	934.805	Pk of 4	4 nozzles per 1 tube of adhesive
MUTO TLG gasket set	807.640	1 set	
Handling time frame	**Function**		**Time**
	Working life *(time between application and clamping of carrier)*		5 minutes @ 75°F
	Handling strength		20 minutes @ 73°F or more
	Full cure time *(normal door usage not recommended until full cure time has been met)*		48 hours @ 73°F or more

NOTE: Door glass should not be installed until the full cure time as been reached (see chart above).

1.1   Clean clamping area with alcohol-based standard commercial cleaning agent before mounting the glass hardware.

Important safety-related information for the mounting and use of dormakaba glass hardware.

1.2   Never clamp metal fitting hardware directly to glass surface.

1.3   Never use clamping products on surfaces with self-cleaning coatings.

2 Scotch-Weld™ EPX™ Plus II Applicator with 1:1 Plunger is a trademark of 3M.

3 Scotch-Weld™ EPX™ Plus II Mixing Square Nozzle is a trademark of 3M.

2 Installation preparation

2.1 Overall

Fig 1
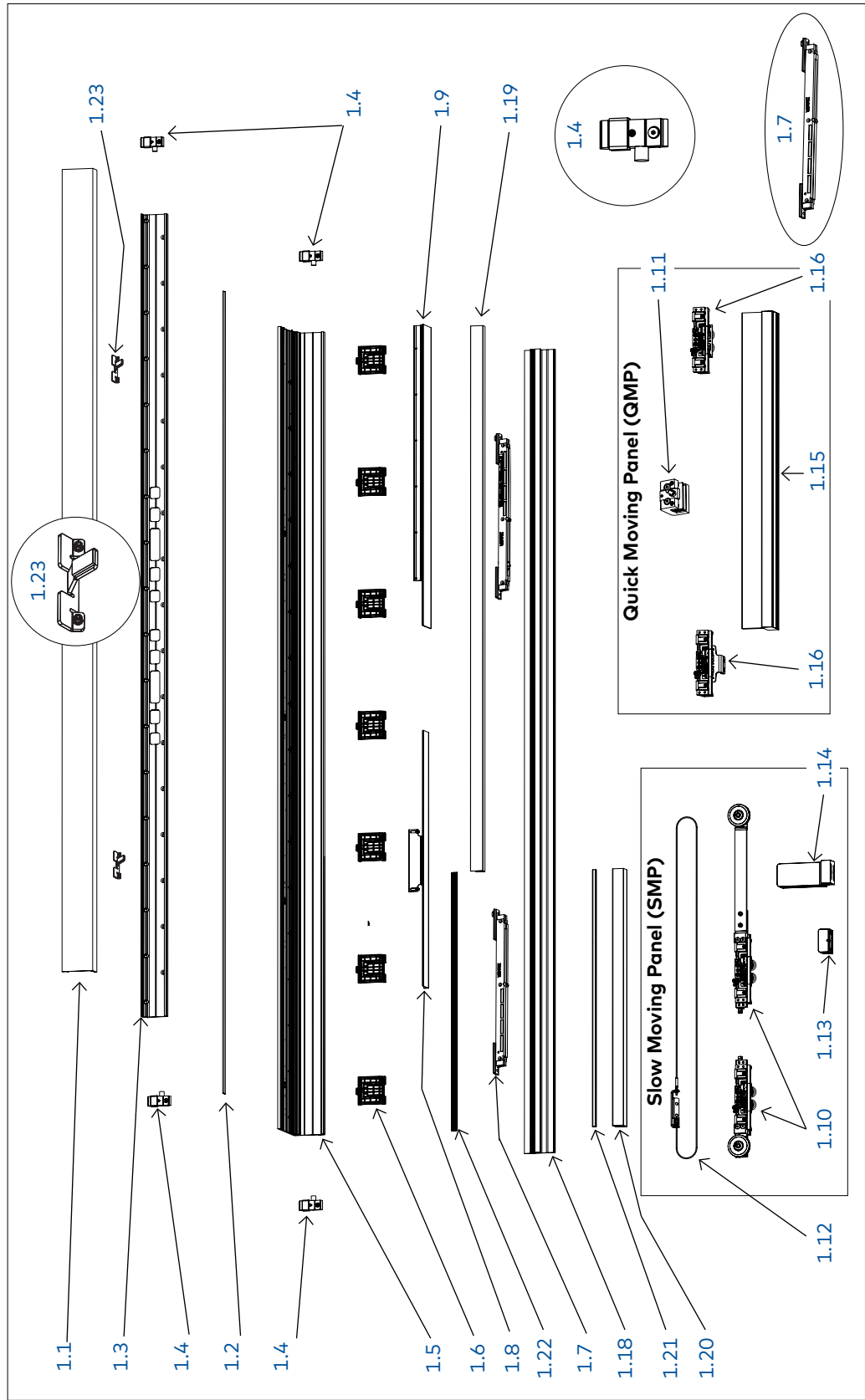
1.1	Cover	1.6	Cover clips	1.11	Start/stop (optional)	1.18	Sidelite section profile
1.2	Brush strip	1.7	Dormotion unit (x2) (optional)	1.12	Simultaneous drive	1.19	Filler panel
1.3	Quick Moving Panel track	1.8	Cover profile for Slow Moving Panel	1.13	Floor guide	1.20	U-channel
1.4	End stops (x4)	1.9	Cover profile for passage	1.14	Moving floor guide	1.21	U-channel gaskets
1.5	Slow Moving Panel track	1.10	SMP Roller carriers (x2)	1.15	Quick Moving Panel clamp	1.22	Sidelite glass gasket
				1.16	QMP Roller carriers (x2)	1.23	Cover spacers (x2)
				1.17	QMP glass clamp end caps (x2)		

Quick Moving Panel (QMP)

Slow Moving Panel (SMP)

2.2 Door/wall dimensions

2 panel - Right (shown) or Left hand opening

Back of track to center of mounting hole in track

1-1/2" [38]

3-11/16" [85]

clear opening height (CH)

clear opening width (CW)

(SMP) Slow moving panel

(FP) Fixed panel

(QMP) Quick moving panel

1-3/16" [30]

1-3/16" [30]

1/8" [3]

Bottom of glass to floor

3/8" [10]

9/16" [14]
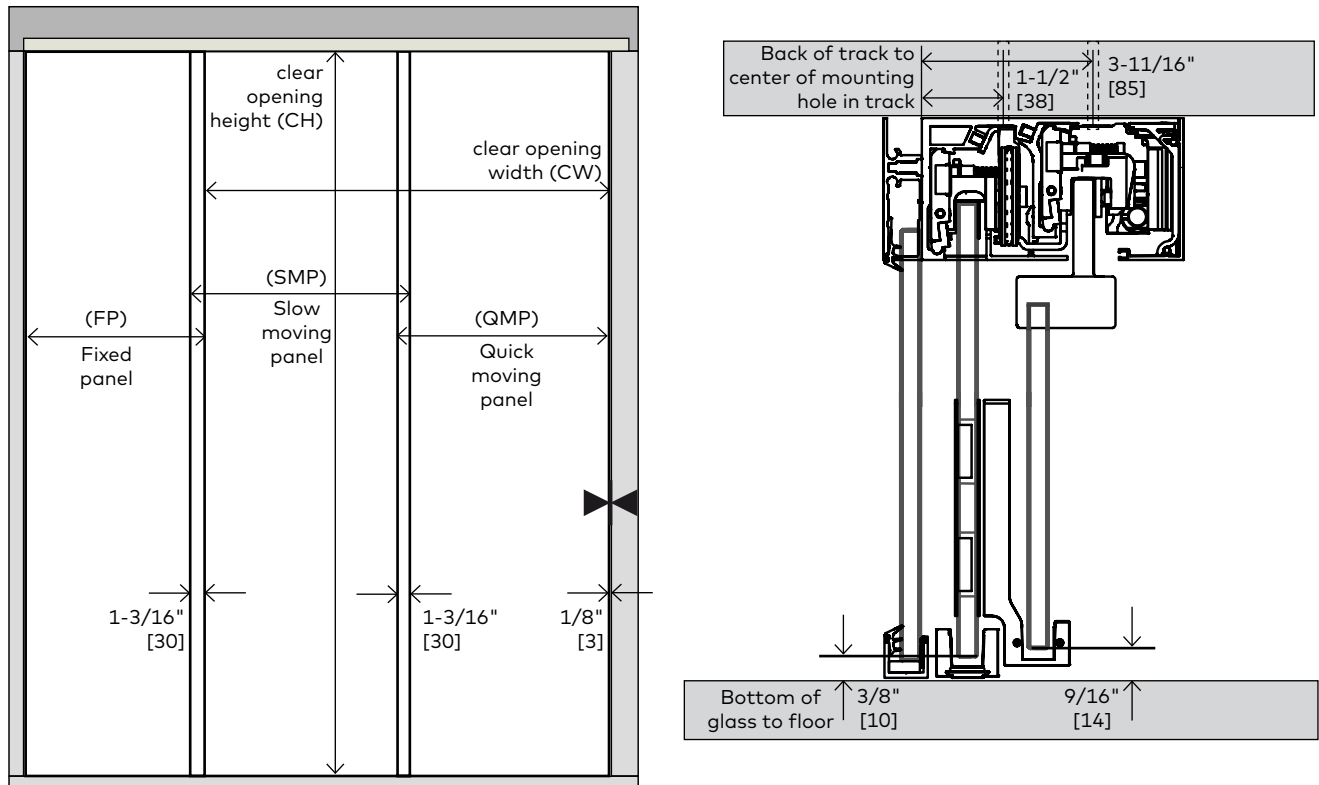
4 panel - Bi-parting opening

clear opening height (CH)

clear opening width (CW)

(SMP) Slow moving panel

(FP) Fixed panel

(QMP) Quick moving panel

(QMP) Quick moving panel

(SMP) Slow moving panel

(FP) Fixed panel

1-3/16" [30]

1-3/16" [30]

1-1/4" [6]

1-3/16" [30]

1-3/16" [30]
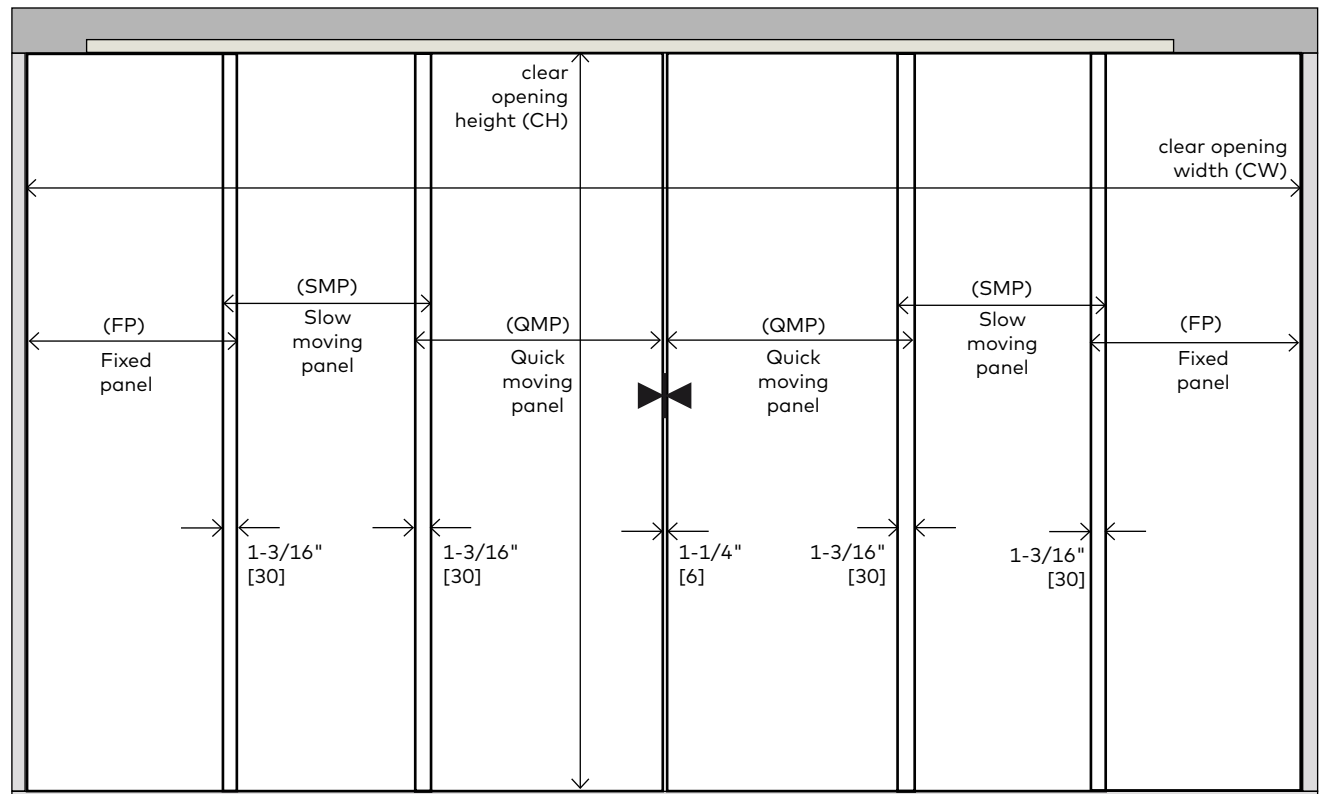
3 Installation instructions - Slow moving panel (SMP)

3.1 Installing end stops in SMP

Fig 2

Hex key size	
XL80	2.5mm
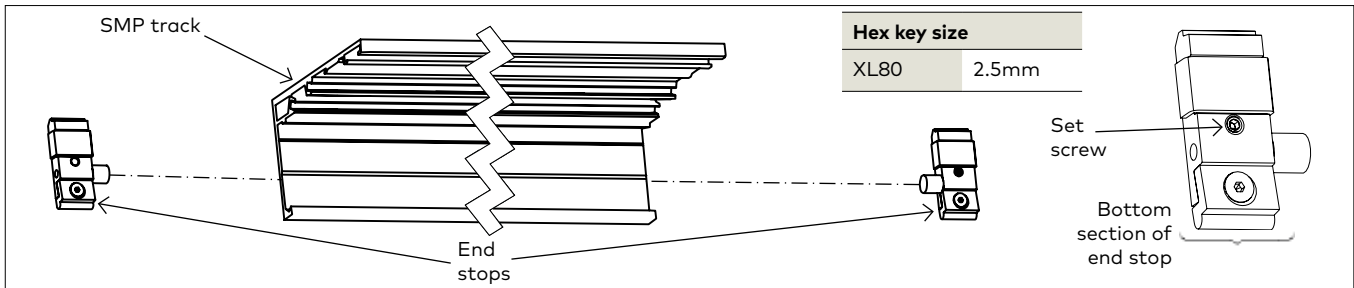
3.1.1 Slide end stops into each end of the SMP track.

NOTE: Loosen bottom section of end stop for easier install.

NOTE: Exact location/adjustments will be determined in the Adjustment End Stop Location step.

3.2 Securing gasket to SMP track

Fig 3
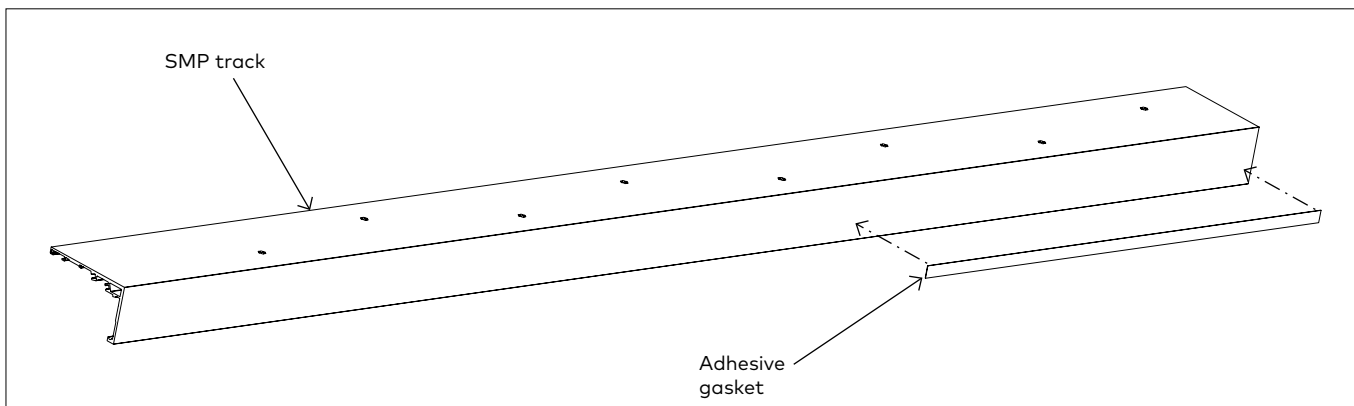
3.2.1 Ensure the SMP track is cut to proper length.

NOTE: SEE DIMENSION INSTRUCTIONS ON PAGE 9.

3.2.2 Cut adhesive gasket equal to sidelite glass width.

3.2.3 Adhere gasket along bottom edge of back of track.

3.3 Securing sidelite section profile to SMP track

Fig 4
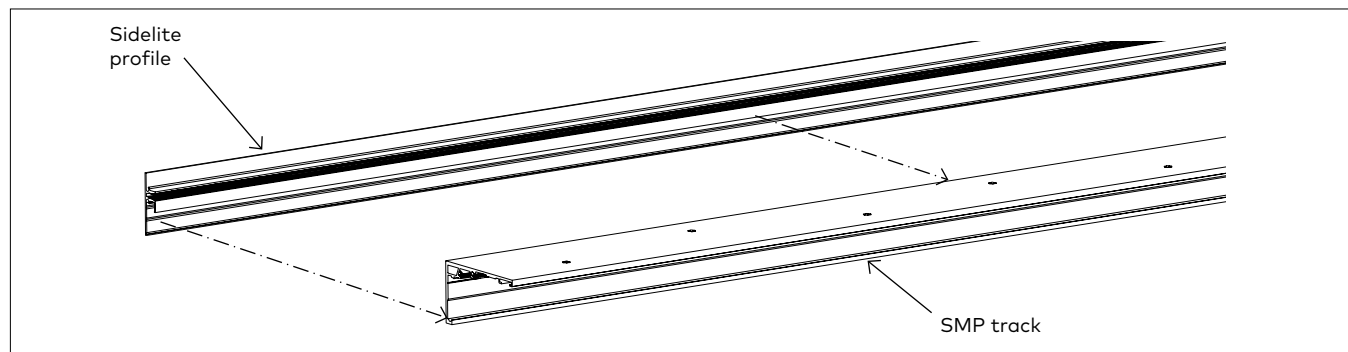
3.3.1 Align sidelite profile holes with SMP track profile holes.

NOTE: Holes will be predrilled every 7-7/8" [200].

3.3.2 Secure with 9/16" (14) fasteners provided.

NOTE: Be sure fastener heads are flush with track to avoid rollers catching protruding fasteners.

3.4 Specifications for securing track to mounting surface

3.4.1 Ensure track is properly level and secure it to the header mounting surface per the appropriate measurements on the following page.

NOTE: SEE DIMENSION INSTRUCTIONS ON PAGE 6 FOR REFERENCE.

NOTE:
OVERHEAD REINFORCEMENT:
The overhead reinforcement must be a minimum of ¼" [6] x 3" [76] steel angle, 16 gauge metal stud with wood blocking, or two pieces of 1-1/2" [38] thick wood blocking (double stacked), secured to studs or joists on a maximum 16" [406] centers for the length of the track. The overhead reinforcement may be flush on the overhead surface or on the interior of this surface.

3.4.2 Use appropriate fasteners according to the following recommendations.

Track mounting screws must fully penetrate the steel angle, metal stud, or at a minimum of 2" [51] into wood blocking, utilizing the predrilled holes in the MUTO track.

Consult with a structural engineer to determine if reinforcement is adequate for your specific application or to meet specific codes in your location.

3.5 Installing U-Channel for sidelite

Fig 5

**Orient gasket(s)
as shown.**

U-channel
gasket
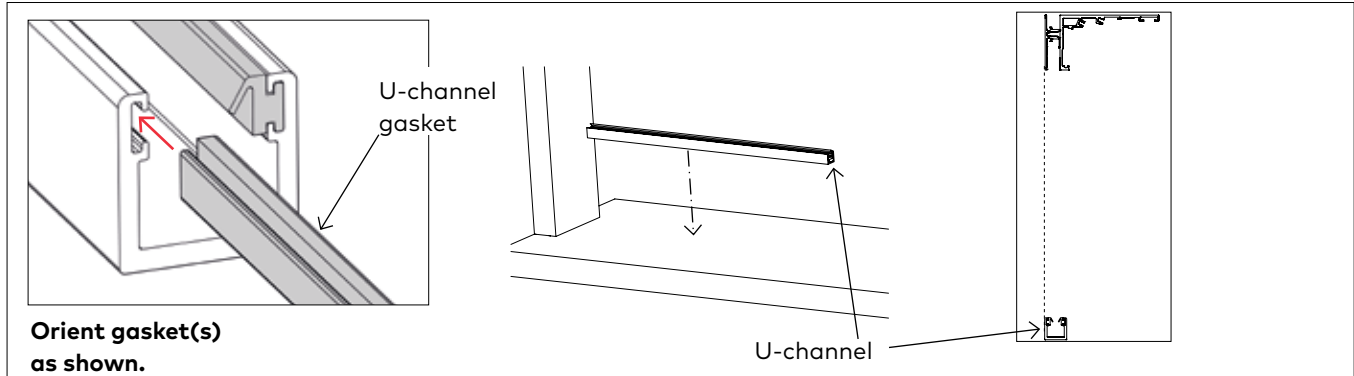
U-channel

3.5.1 Install gaskets as shown. Trim to correct length.
3.5.2 Secure u-channel to floor using appropriate fasteners.

NOTE: Ensure u-channel is plumb and the back of the U-channel profile aligns with back of sidelite profile.

NOTE: Gaskets are pre-installed.

3.6 Installing sidelite glass

Fig 6

Sidelite profile

Lift up into sidelite profile

U-channel

Lower down into u-channel

U-channel

Wall

1/8" gap

Sidelite glass
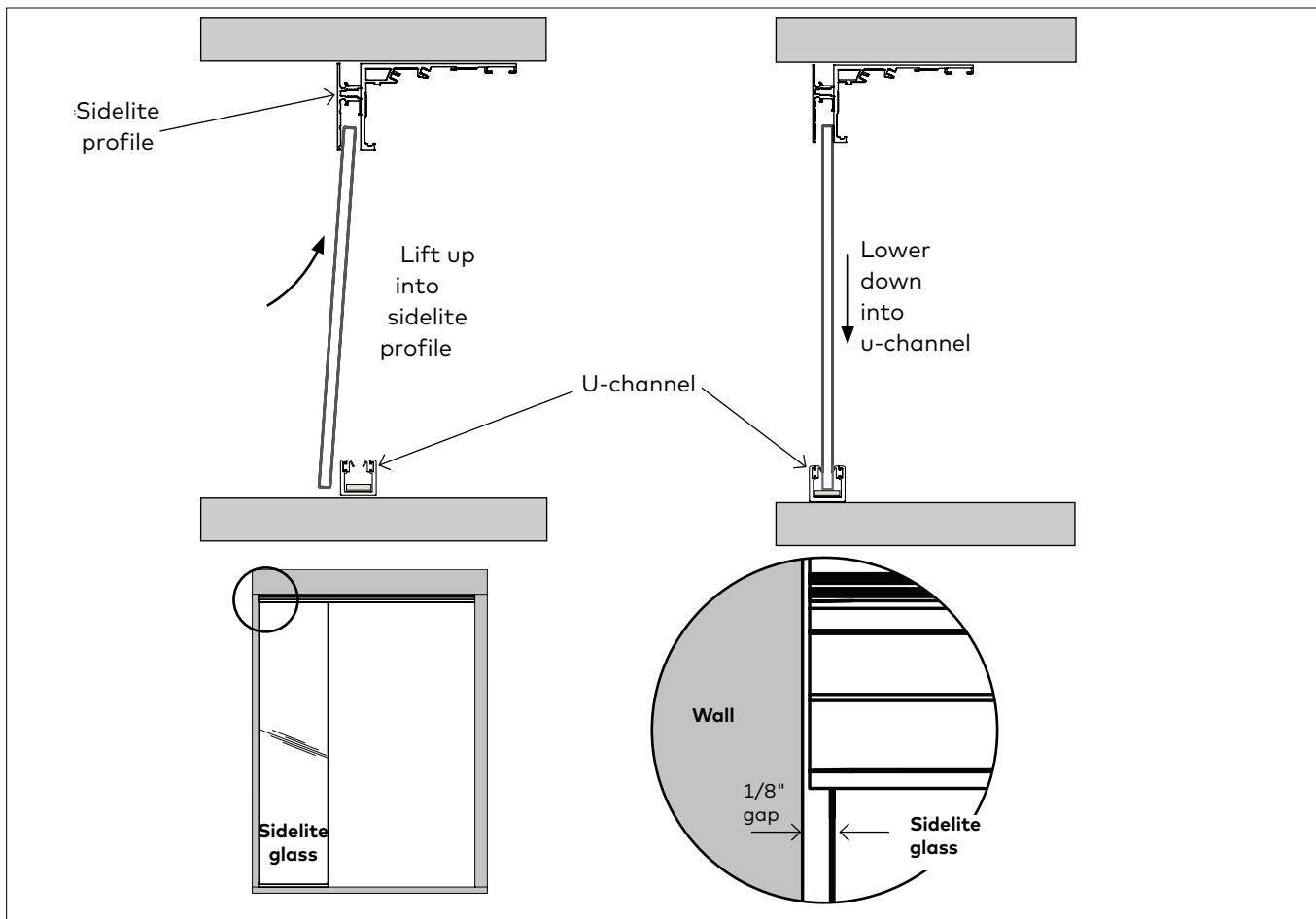
Sidelite glass

3.6.1 Place setting blocks into u-channel.
3.6.2 Spray inside of u-channel with glass cleaner.
3.6.3 Lift glass up and into sidelite profile.
3.6.4 Lower glass into u-channel.

3.6.5 Ensure there is 1/8" [3] gap between wall and edge of sidelite glass.
3.6.6 If using tempered laminated glass, gently press glass against u-channel gasket, and dispense silicone along full length of non-gasket side of u-channel.

3.7 Installing sidelite glass filler panel

Fig 7

SMP
track

Filler panel

**Sidelite
glass**

Sidelite
profile
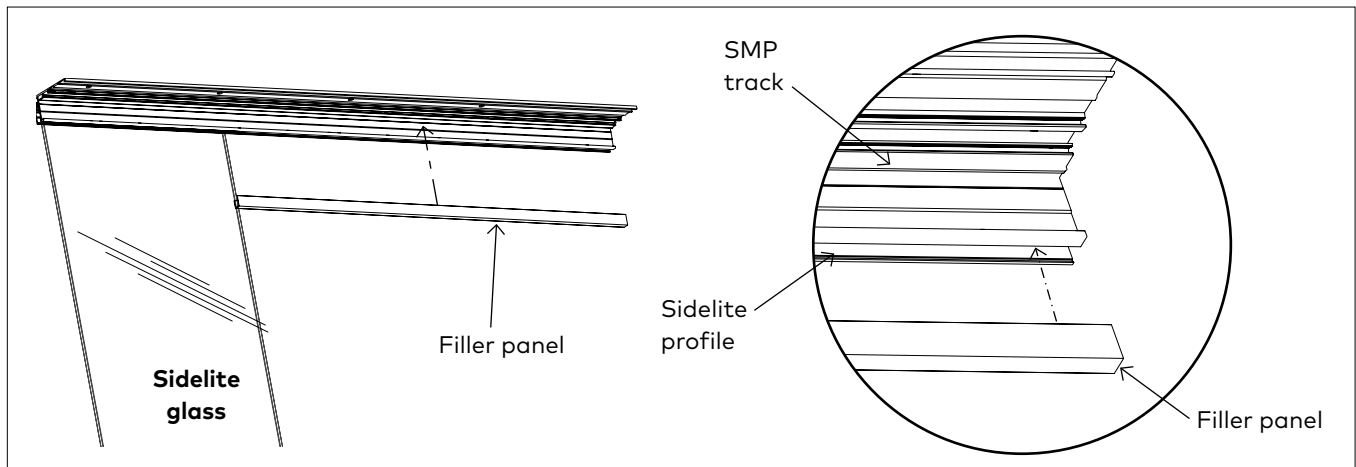
Filler panel

3.7.1 Fit filler panel between empty section of track
and sidelite profile, on door side.

3.8 Installing sidelite glass gasket

Fig 8

**Sidelite
gasket**

Sidelite
profile

Sidelite
glass

Sidelite
gasket
location
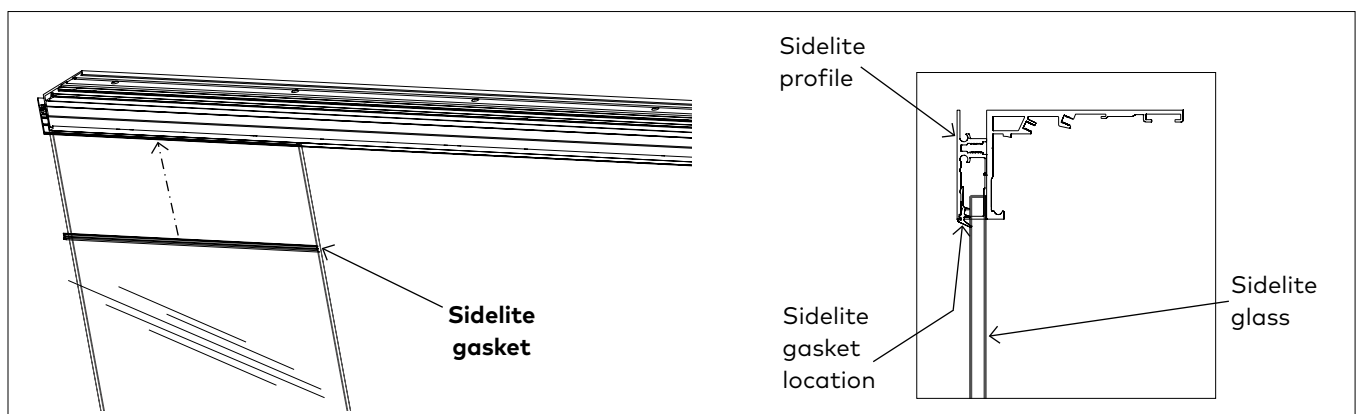
3.8.1 Cut gasket to length.

3.8.2 Press gasket in between sidelite glass and
sidelite profile.

3.9A   Installing roller carriers: on SMP monolithic glass ONLY

Fig 9

⚠ DETERMINE THE LEADING (X) VERSUS TRAILING (Z) EDGE OF THE GLASS.
"LEADING IS SIDE CLOSEST TO LATCH CLOSED."

***ENSURE CARRIERS ARE SECURED
TO CORRECT SIDE OF GLASS.***

Z   X

Torque values	
XL80	5 ft lbs [6Nm]

Hex key size	
XL80	3mm

Roller location on glass

		XL80
SMP	X	2-3/8" [60]
SMP	Z	2-3/8" [60]

Legend	
▶◀	Closing edge of door

Secure

Glass gasket

(Front of) Glass

Roller carrier

(Front of) Glass

⚠ **NOTE: FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER.**

⚠ **ENSURE GASKET IS FREE OF DEBRIS.**

⚠ **ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.**

3.9A.1 Slide SMP roller carriers onto glass.

3.9A.2 Slide glass gasket and metal shim between glass and roller carrier.

NOTE: Orient with gasket facing the glass.

3.9A.3 Secure roller carriers to glass at 5 ft lbs (6 Nm).

3.9B   Installing roller carriers: on SMP tempered laminate glass ONLY

Fig 10

DETERMINE THE LEADING (X) VERSUS TRAILING (Z) EDGE OF THE GLASS.
"LEADING IS SIDE CLOSEST TO LATCH CLOSED."
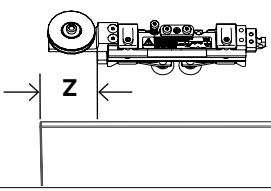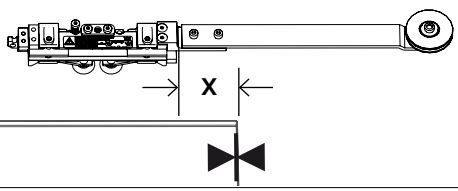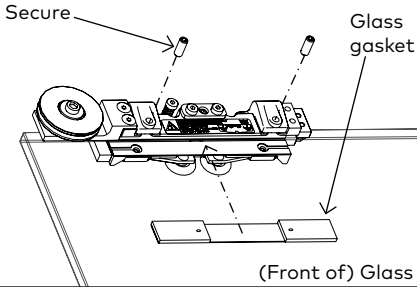
Ensure carriers are secured to correct side of glass.

Torque values

XL80	4ft lbs [5Nm]

Hex key size

XL80	3mm

Roller location on glass

		XL80
SMP	X	2-3/8" [60]
SMP	Z	2-3/8" [60]
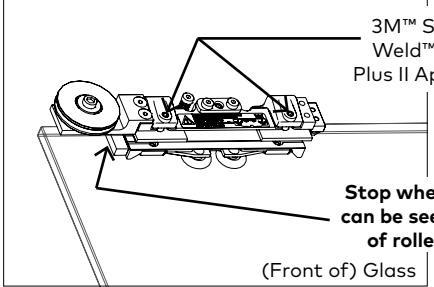
Legend

▶◀	Closing edge of door

Secure

Glass gasket
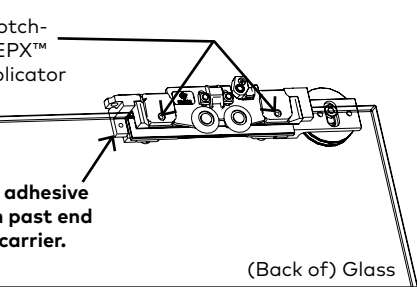
(Front of) Glass

3M™ Scotch-Weld™ EPX™ Plus II Applicator

Stop when adhesive can be seen past end of roller carrier.

(Front of) Glass

(Back of) Glass

⚠ **NOTE: THE RECOMMENDED ADHESIVE'S SET-UP TIME IS 20 MINUTES FOR THE DUO-PAK CARTRIDGES.**

⚠ **NOTE: USE 1:1 RATIO PLUNGER WITH THE 3M™ Scotch-Weld™ Urethane Adhesive.**

⚠ **NOTE: FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER. ENSURE NO DEBRIS IS ON THE GASKET.**

⚠ <u>**ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.**</u>

3.9B.1   Slide SMP carriers onto glass.
3.9B.2   Replace existing gasket with TLG gasket.
3.9B.3   Slide laminated glass gasket and metal shim between glass and roller carrier.

NOTE: Orient with gasket facing the glass.

3.9B.4   Relace existing set screws with vented set screws.
3.9B.5   Tighten vented set screws at 4 ft lbs (5Nm).

NOTE: Onto scrap material, first dispense approximately 12" of 3M™ Scotch-Weld™ Urethane Adhesive prior to application to prevent mixing errors and ensure optimal hardening.

3.9B.6   Dispense into vented set screws on both sides of carrier.

⚠ Stop application when adhesive can be seen past edge of roller carrier.

⚠ <u>DO NOT WIPE</u> any excess adhesive from glass surface. Allow adhesive to dry and scrape off glass surface with a beveled-edge chisel or putty knife.

NOTE: Keep glass flat during curing process.

NOTE: See chart in Specifications section for appropriate curing time.

3.10 Adjust roller carrier wheels

Fig 11

Front of carrier

Wheel

+3/16" [+5]
-1/8" [-3]
Wheel
adjustment
Screw

Carrier
bracket

Back of carrier

Carrier
bracket

Front of carrier

Wheel

Carrier
bracket

Wheel
adjustment
Screw

+3/16" [+5]
-1/8" [-3]

Back of carrier

Carrier
bracket

Hex key size	
XL80	5mm
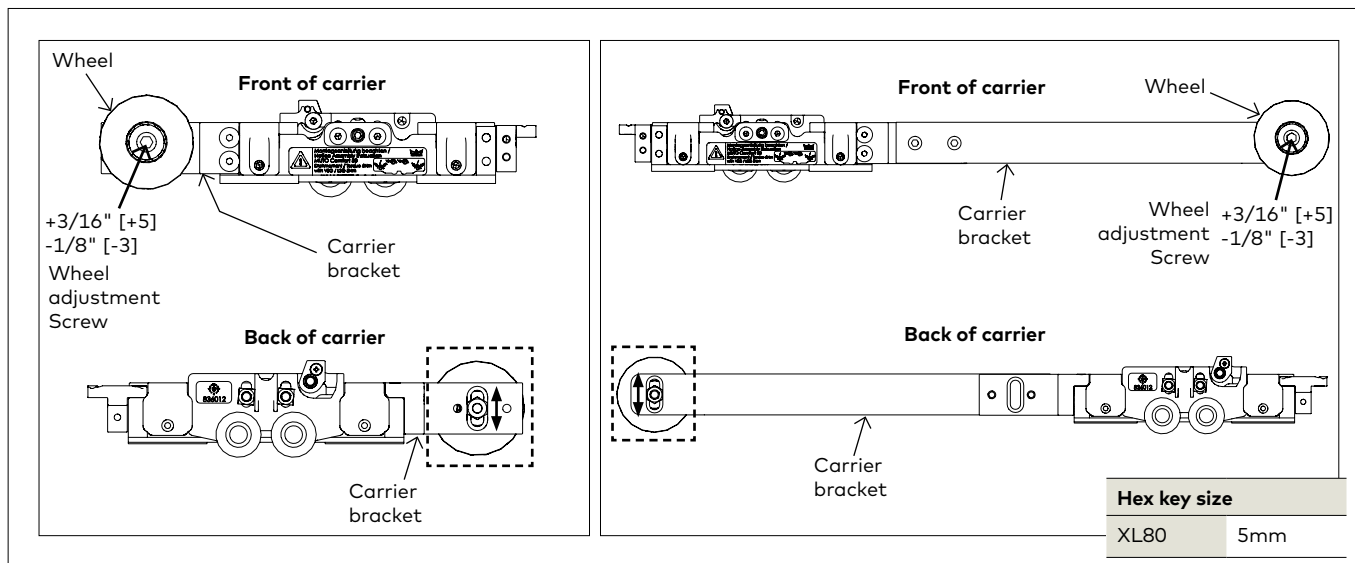
3.10.1   If more clearance is required between wheel and track, adjust accordingly.

3.10.2   Loosen wheel adjustment screw.

3.10.3   Slide wheel up or down to adjust.

3.10.4   Retighten wheel adjustment screw.

3.11 Disengage the anti-jump

Fig 12

Hex key size	
XL80	3mm

Anti-
jump

1/4 turn

Anti-
jump

Anti-jump
adjustment
screw

NOTE: Anti-jump shipped engaged.
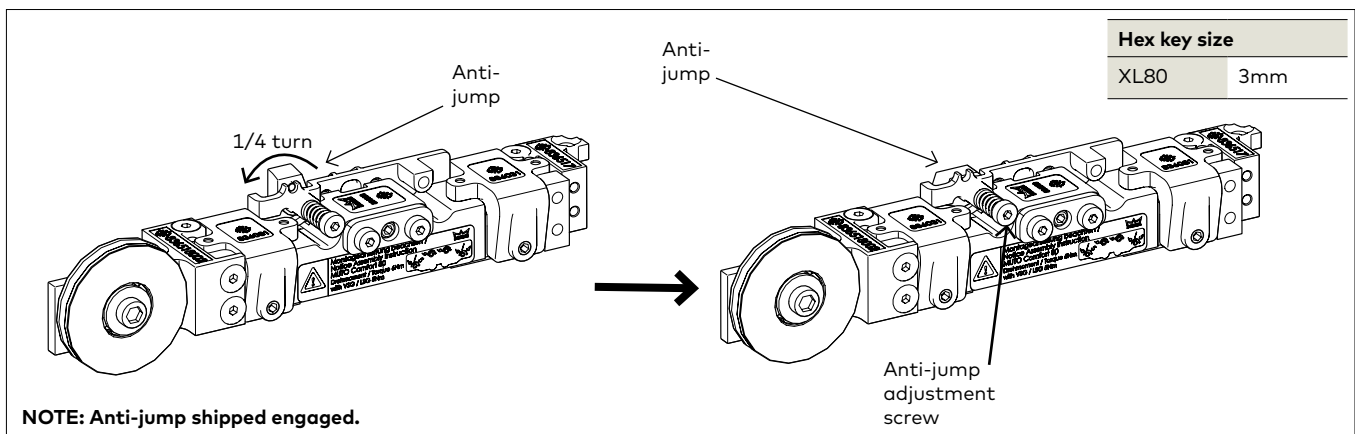
3.11.1   Disengage the anti-jump on SMP roller carrier.

3.11.2   Using a hex key, push anti-jump adjustment screw IN and turn **COUNTER-CLOCKWISE** 90° to disengage anti-jump.

3.12   Assemble simultaneous drive
Fig 13

Fig. 1   Fig. 2   Fig. 3   Fig. 4

Drive-cable bracket
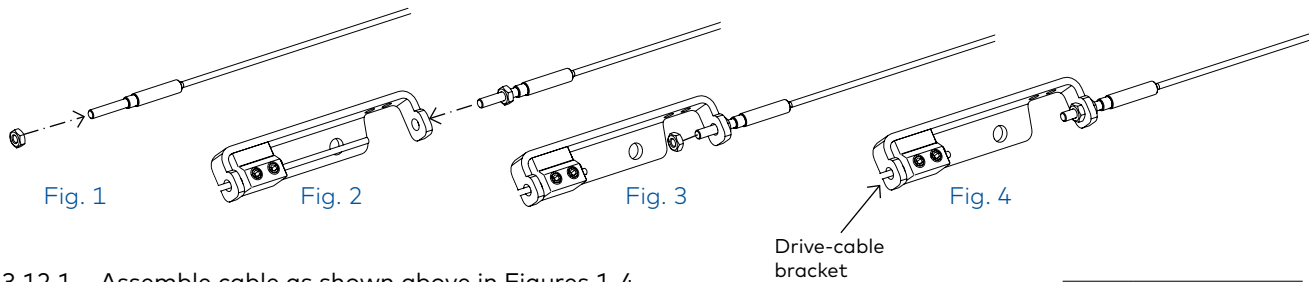
3.12.1   Assemble cable as shown above in Figures 1-4.

3.12.2   Measure and cut cable.
Cable length = (SMP door width x 2) + 39" [991]

Legend	
▶◀	Closing edge of door

⚠ **NOTE: MANUALLY DOUBLE CHECK CABLE LENGTH <u>BEFORE</u> CUTTING.**

3.12.3   Loop cable assembly around SMP carriers as shown.

ENSURE BRACKET IS CENTERED ON TRAILING CARRIER.
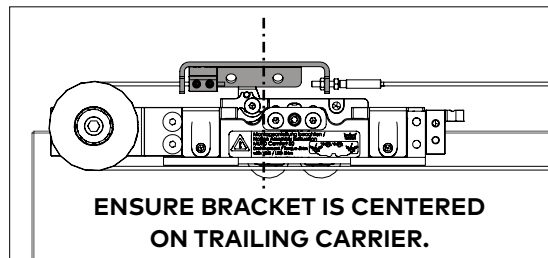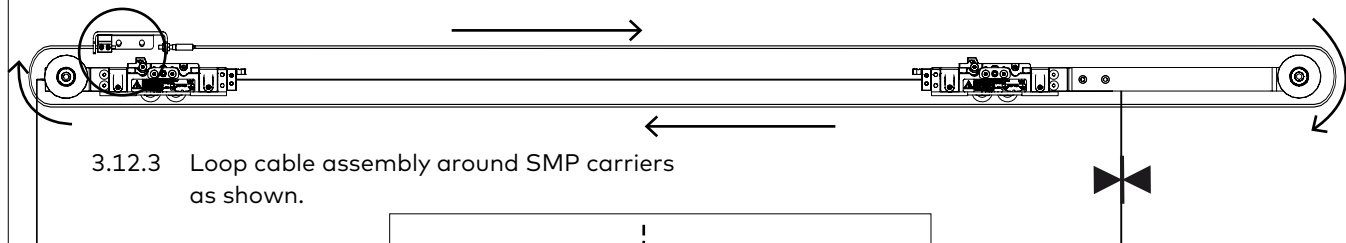
Wrench size	
XL80	5.5mm C-wrench

Hex key size	
XL80	2mm, 5mm

Feed free end of cable in here

Secure free-end of cable

Drive-cable bracket ***ENSURE PROPER ORIENTATION***

Fig. 5   Fig. 6   Fig. 7
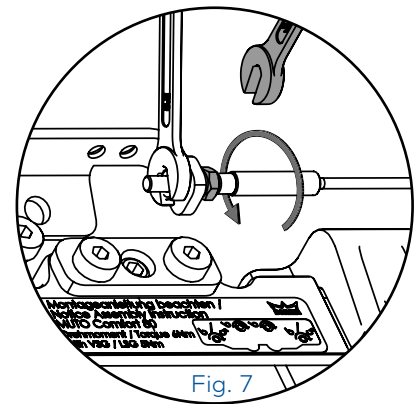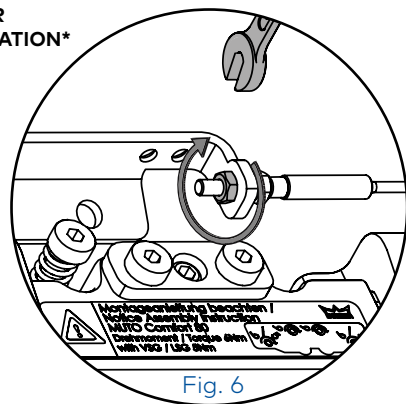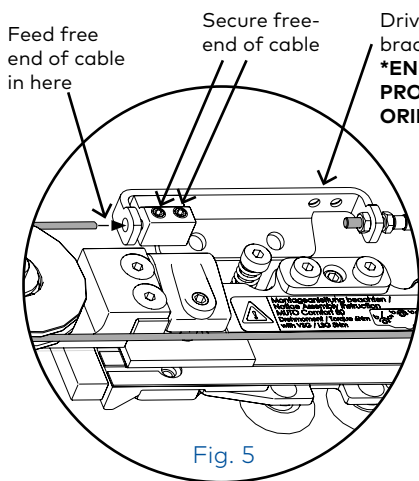
3.12.4   After cable is looped around, feed free-end through open side of bracket.

3.12.5   Secure free-end of cable inside bracket.
• Fully tighten to 2.2ft lbs [3Nm].

3.12.6   Fully tension cable via nut on inside of bracket.
• **To tighten**: rotate wrench **CLOCKWISE**.

3.12.7   Tighten outside nut to lock into place.
• **To tighten**: hold inside nut with one wrench, rotate second wrench on outside nut **COUNTER-CLOCKWISE**.

3.13 Secure moving floor guide
Fig 14

	Plate #1	Plate #2	Plate #3 (Adhesive gasket)	Plate #4	Fasteners
	3/32" [2]	1/32" [1]	1/32" [1]	1/32" [1]	1/2" [12] / 5/8" [16]

* Right hand floor guide shown.*

Hex key size

XL80	2mm, 5mm

← Plate #1/#2

← Plate #3 (Adhesive gasket) ***Ensure adhesive side faces up.***

← Plate #4

	Glass thickness [mm]		
	3/8" [10]	1/2" [12]	17/32" [13.5]
Plate #1		X	
Plate #2	X		
Plate #3	X	X	X
Plate #4	X	X	X
Fastener lengths	1/2" [12]	5/8" [16]	5/8" [16]

±1/16" [2]

3.13.1 Secure moving floor guide to SMP.
3.13.2 Use chart to determine appropriate plate(s) needed for glass thickness.

3.13.3 Orient as shown.

3.14   Install glass/rollers in SMP track

Fig 15

⚠ **ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.**

3.14.1   Place SMP glass on setting blocks on floor for stability.

3.14.2   Lift glass and SMP rollers up and rest rollers on SMP track.

If installing/hanging tempered laminated glass panels, ensure carrier adhesive has cured for 48 hours minimum. See Specifications section for more information regarindg cure time.

SMP track

SMP rollers

3.15   Install floor guide

Fig 16

Hex key size	
XL80	3mm

Floor guide anchor

Ø5/16" [8]

1-13/32" [36]

Floor guide anchor
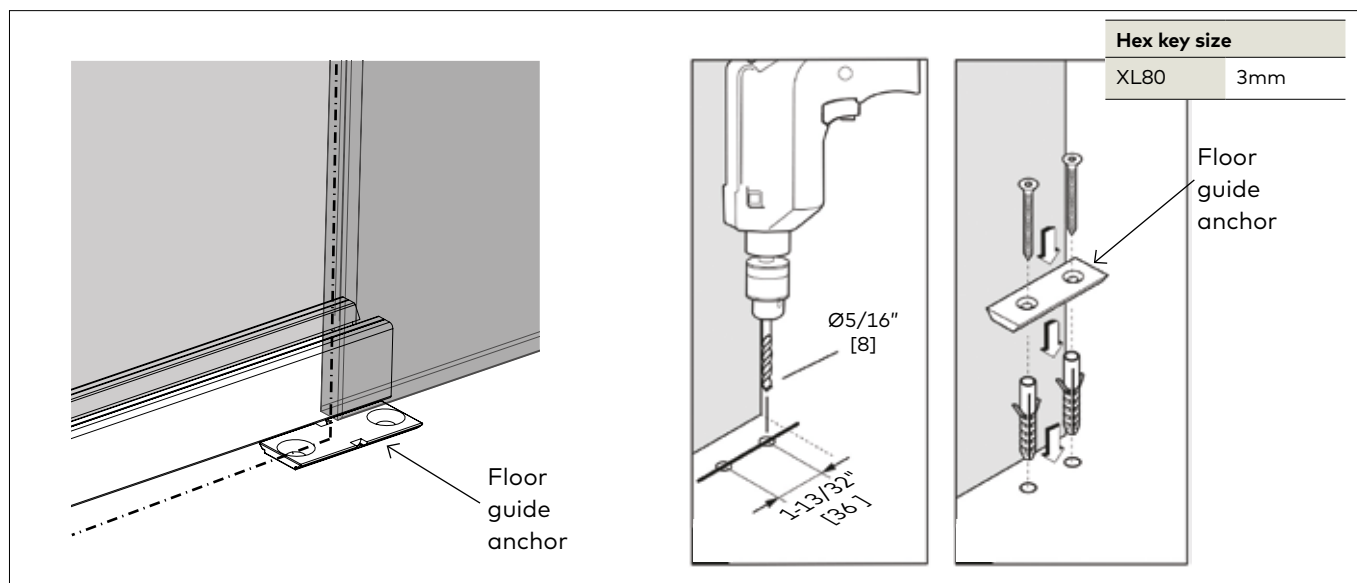
⚠ **CAUTION ANTI-JUMP IS DISENGAGED!**

3.15.1   Align centerline of glass with centerline of floor guide.

3.15.2   Be sure the glass is plumb.

3.15.3   Mark appropriate floor guide measurements.

3.15.4   **TEMPORARILY REMOVE GLASS AND ROLLERS FROM TRACK.**

3.15.5   Pre-drill into mounting surface using a 5/16" drill bit.

3.15.6   Secure floor guide anchor with included fasteners.

3.16 Install floor guide: continued

Fig 17

Hex key size	
XL80	2.5mm

SMP Glass · QMP Glass · Floor guide · Moving floor guide · Floor guide anchor · Set screws
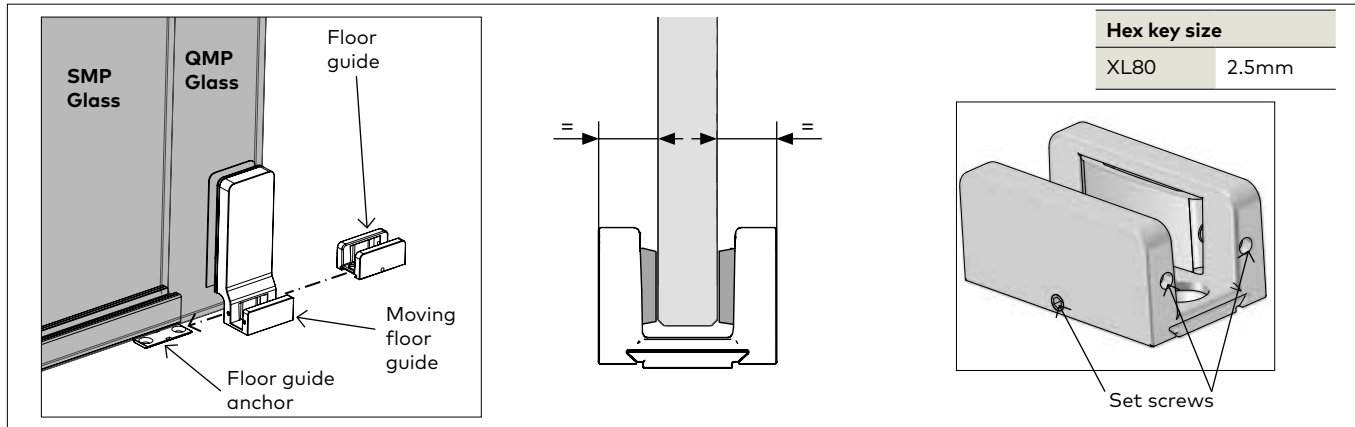
3.16.1 SET GLASS AND ROLLERS BACK ONTO TRACK.

3.16.2 Slide floor guide over floor guide anchor and tighten with set screws.

3.16.3 Remove setting blocks.

NOTE: Be sure glass is centered in floor guide. Adjust using set screws.

3.17 Engaging anti-jump

Fig 18

Anti-jump · 1/4 turn · Anti-jump adjustment screw

Anti-jump

Hex key size	
XL80	3mm
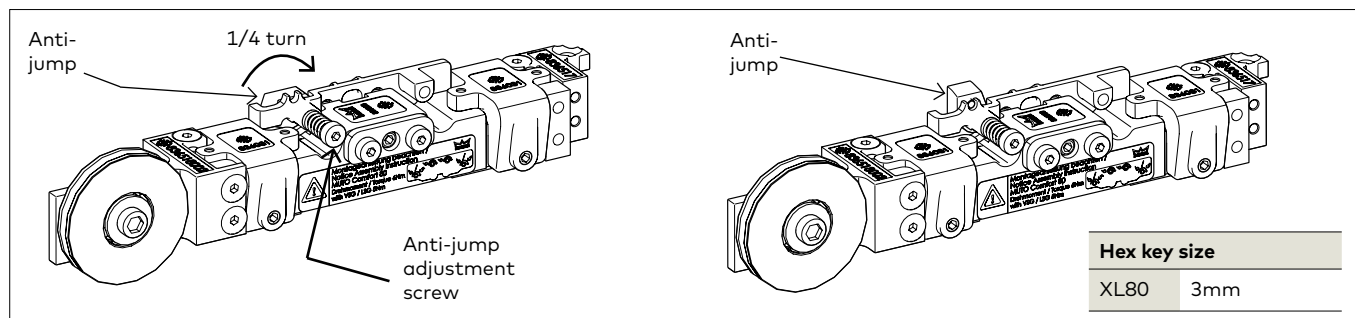
3.17.1 Engage anti-jump on roller carrier.

3.17.2 Using a hex key, push anti-jump adjustment screw IN and turn **CLOCKWISE** 90° to engage anti-jump.

3.18 Adjustment door height

Fig 19

SMP Glass · Floor guide · +3/16" [+5] -1/8" [-3] · 3/8" [10]

Height Adjustment screw · Height adjustment locking screws

Door height adjustment tolerance	
XL80	
+3/16" [+5] -1/8" [-3]	

XL80 torque	
Height adjustment screws	2 ft lbs [3 Nm]

XL80 torque	
Height adjustment locking screws	4 ft lbs [6 Nm]

Hex key size	
XL80	3mm
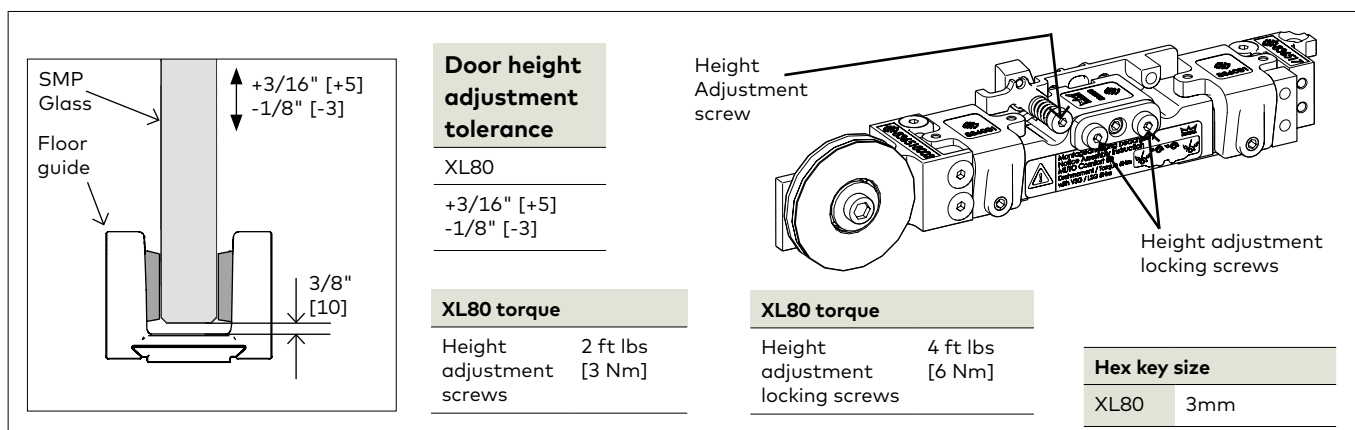
3.18.1 Set height of glass door.

3.18.2 Loosen height adjustment locking screws on carrier.

3.18.3 Using appropriate size hex key, turn height adjustment screw **CLOCKWISE** or **COUNTER-CLOCKWISE** to raise or lower glass.

NOTE: Be sure glass is level during this adjustment.

3.19   Adjustment end stop location: LEADING end stop

Fig 20

END STOP LOCATION: LEADING EDGE

0 mm

Edge of roller carrier

Bumper

End stop

Wall

DOOR CLOSED

Sidelite glass

SMP glass

Glass overlap on sidelite

1-3/16" [30]

Bumper

Secure

XL80 torque	
2 ft lbs [3 Nm] Hand tighten	

Set end stop location:

3.19.1   Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

Hex key size	
XL80	2.5mm

Legend	
◄►	Closing edge of door

NOTE: Bi-foldering: Be sure there is a 1/4" [6] gap between the right and left hand sets.

Adjustment end stop location: TRAILING end stop

Fig 21

END STOP LOCATION: TRAILING EDGE

0 mm

End stop

Bumper

Edge of roller carrier

Wall

DOOR OPENED

Sidelite glass/ SMP glass

Glass overlap on wall

0"

Bumper

Secure

XL80 torque	
2 ft lbs [3 Nm] Hand tighten	

Set end stop location:

3.19.1   Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

Hex key size	
XL80	2.5mm

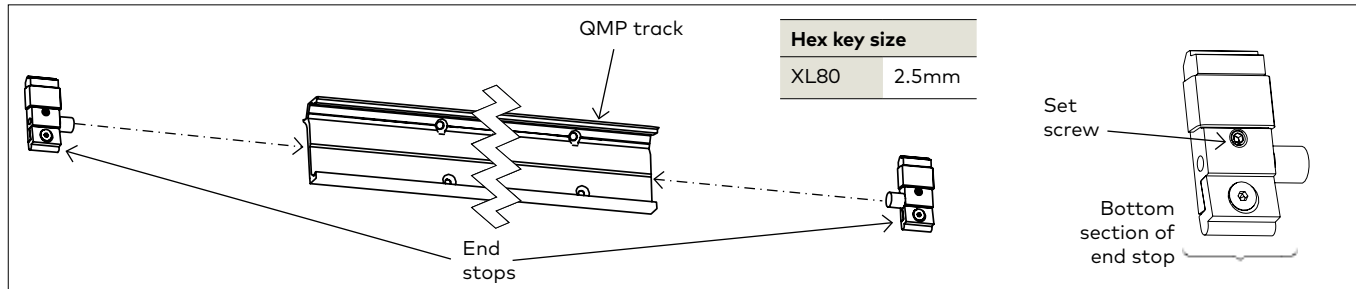| Legend	
◄►	Closing edge of door

NOTE: Bi-foldering: Be sure there is a 1/4" [6] gap between the right and left hand sets.

4 Installation instructions - Quick moving panel (QMP)

4.1 Installing end stops in QMP

Fig 22

Hex key size	
XL80	2.5mm

4.1.1 Slide end stops into each end of the QMP tracks. **NOTE: Loosen bottom section of end stop for easier install.**

NOTE: Exact location/adjustments will be determined in the Adjustment End Stop Location step.

4.2 Connecting the doors via the cable bracket

Fig 23

Hex key size	
XL80	4mm

DOOR CLOSED

Legend	
▶◀	Closing edge of door

M5 x 10

Socket head cap screw

10mm

5mm
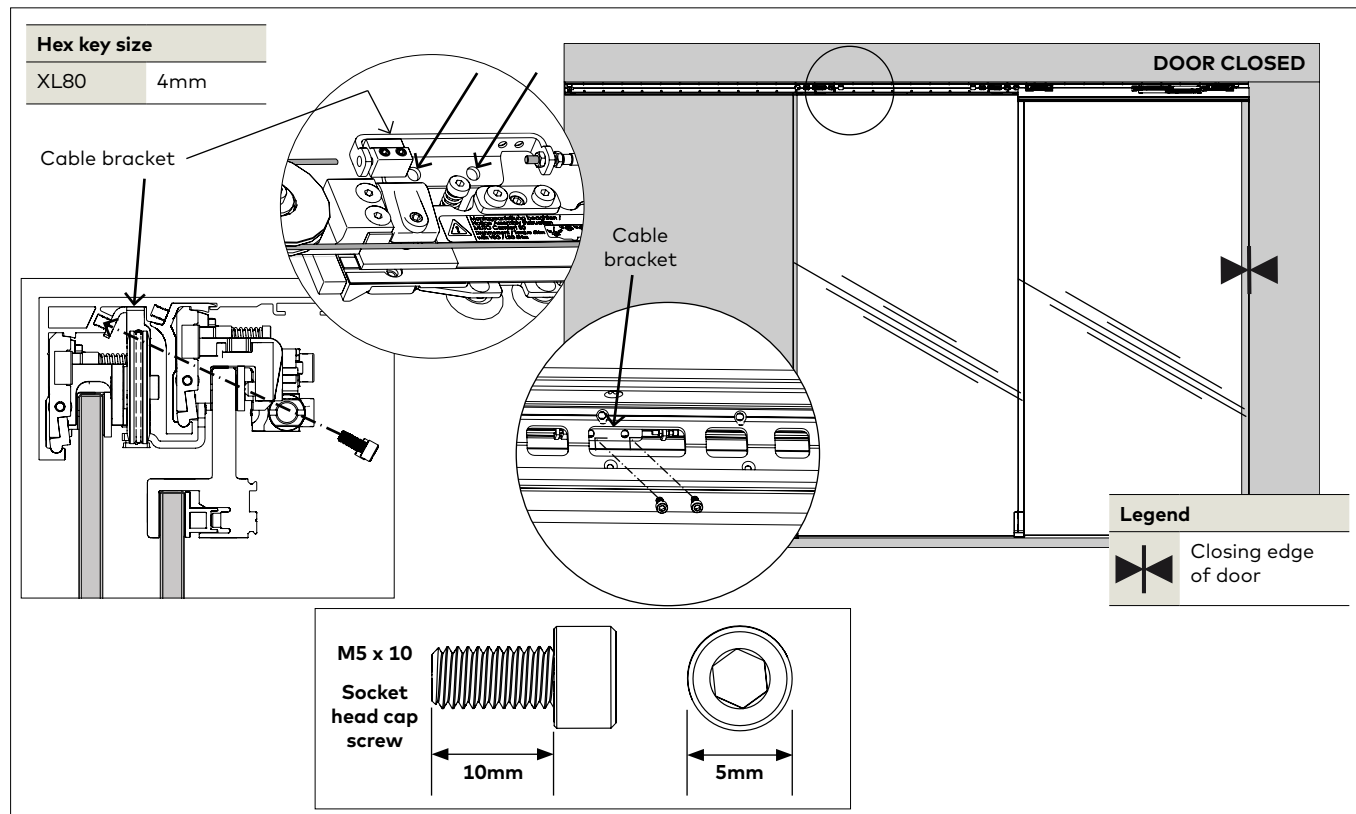
4.2.1 Push both door panels towards the closing edge.

4.2.2 Secure cable bracket with two fasteners through the QMP track at 2 ft lbs [2.5Nm].

4.3   Securing track for QMP

Fig 24

Hex key size	
XL80	3mm

M5 x 10

Flat head socket cap screw

10mm

5mm

4.3.1   Secure QMP track to SMP track.
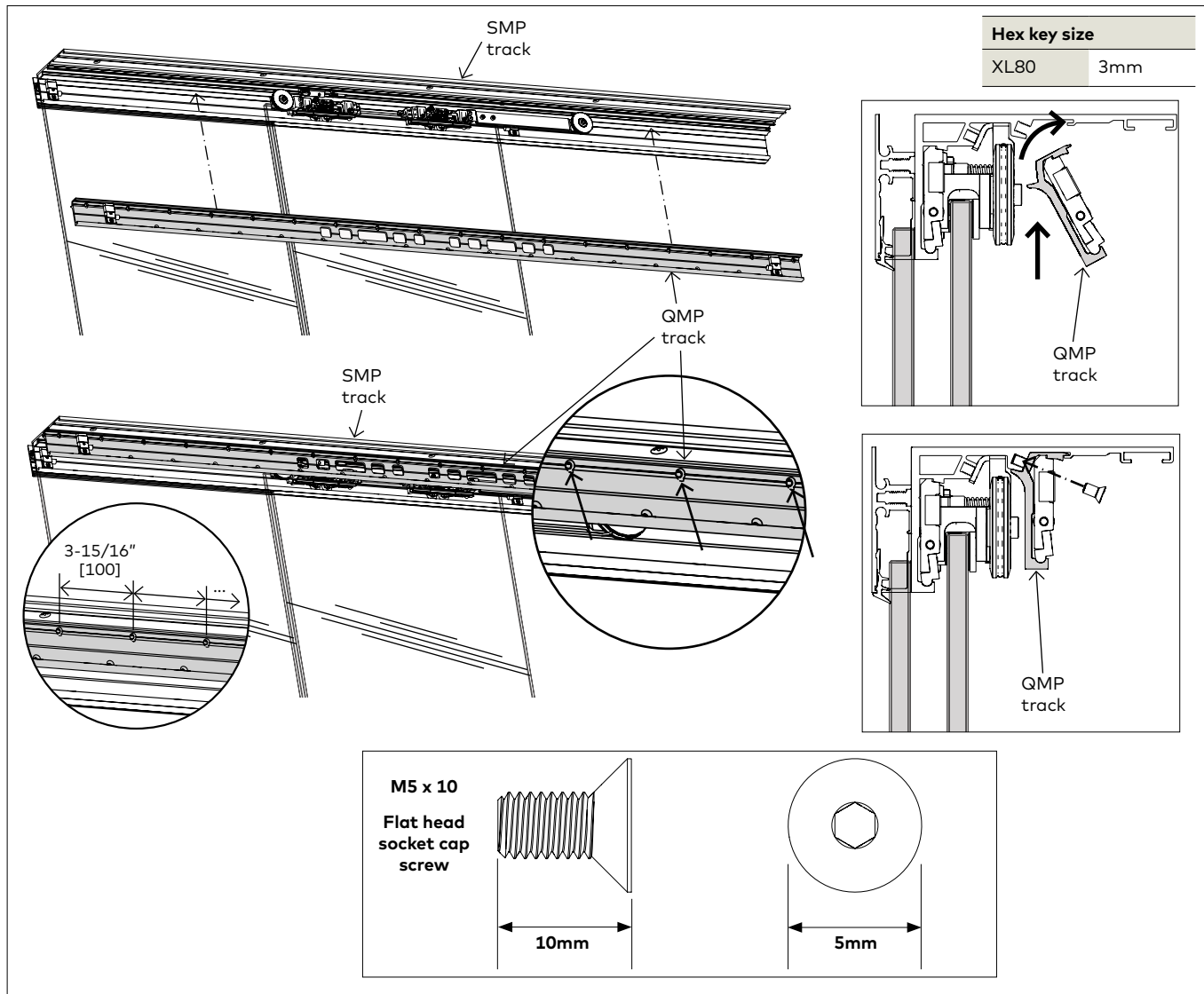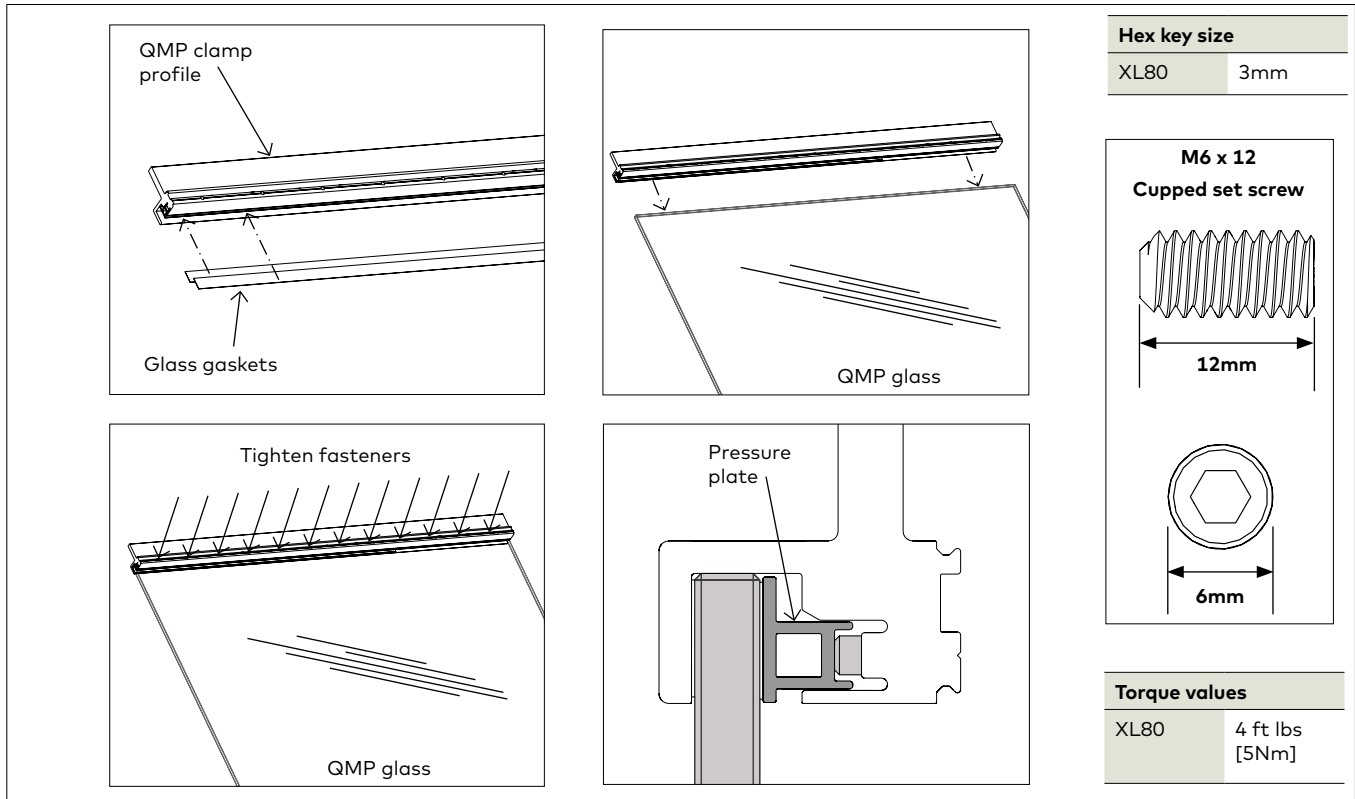
4.3.2   Secure included fasteners at 2 ft lbs [2.5Nm].

4.4 Secure clamp profile for QMP

Fig 25

Hex key size	
XL80	3mm

M6 x 12
Cupped set screw

12mm

6mm

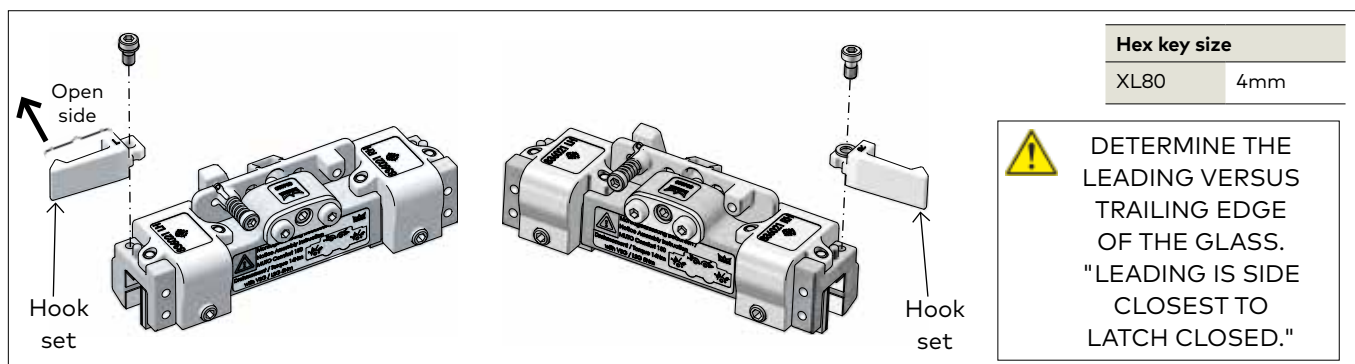| Torque values	
XL80	4 ft lbs [5Nm]

⚠ **NOTE: FULLY CLEAN SURFACE OF GLASS WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER.**

4.4.1 Add glass gaskets. Trim to proper length.

4.4.2 Secure QMP glass to glass clamp profile.

4.4.3 Tighten all fasteners at 4ft lbs [5Nm].

• Do not overtighten pressure plate against glass.

• Start at center of profile and work outwards.

4.5 Install hook set (less Dormotion)

Fig 26

Hex key size	
XL80	4mm

⚠ DETERMINE THE LEADING VERSUS TRAILING EDGE OF THE GLASS. "LEADING IS SIDE CLOSEST TO LATCH CLOSED."

4.5.1 With rollers facing away from the installer, determine which roller will be leading and which will be trailing.

4.5.2 Secure hook onto roller with open side facing away from the installer.

4.5.3 Secure hook using appropriate-size hex key.

4.6   Installing roller carriers

Fig 27

⚠ DETERMINE THE LEADING (X) VERSUS TRAILING (Z) EDGE OF THE GLASS.
"LEADING IS SIDE CLOSEST TO LATCH CLOSED."

Z   X

CARRIER WITH CABLE CLAMP TO BE SECURED TO TRAILING SIDE OF GLASS.

Torque values	
XL80	5 ft lbs [6Nm]

Hex key size	
XL80	3mm

Roller location on glass

		XL80
QMP	X	3-1/8" [80]
QMP	Z	1-9/16" [40]

Legend	
◀▶	Closing edge of door

Glass clamp

Glass gasket

Glass clamp profile

(Front of) Glass

Roller carrier   Secure

(Front of) Glass

⚠ **NOTE: FULLY CLEAN SURFACE OF CLAMP PROFILE WITH AN ALCOHOL-BASED MILD GLASS AND SURFACE CLEANER.**

⚠ **ENSURE GASKET IS FREE OF DEBRIS.**

⚠ **ENSURE ROLLER CARRIER WHEELS ARE FREE OF DEBRIS.**

4.6.1   Slide QMP roller carriers onto clamp profile.

4.6.2   Slide gasket and metal shim between clamp profile and roller carrier.
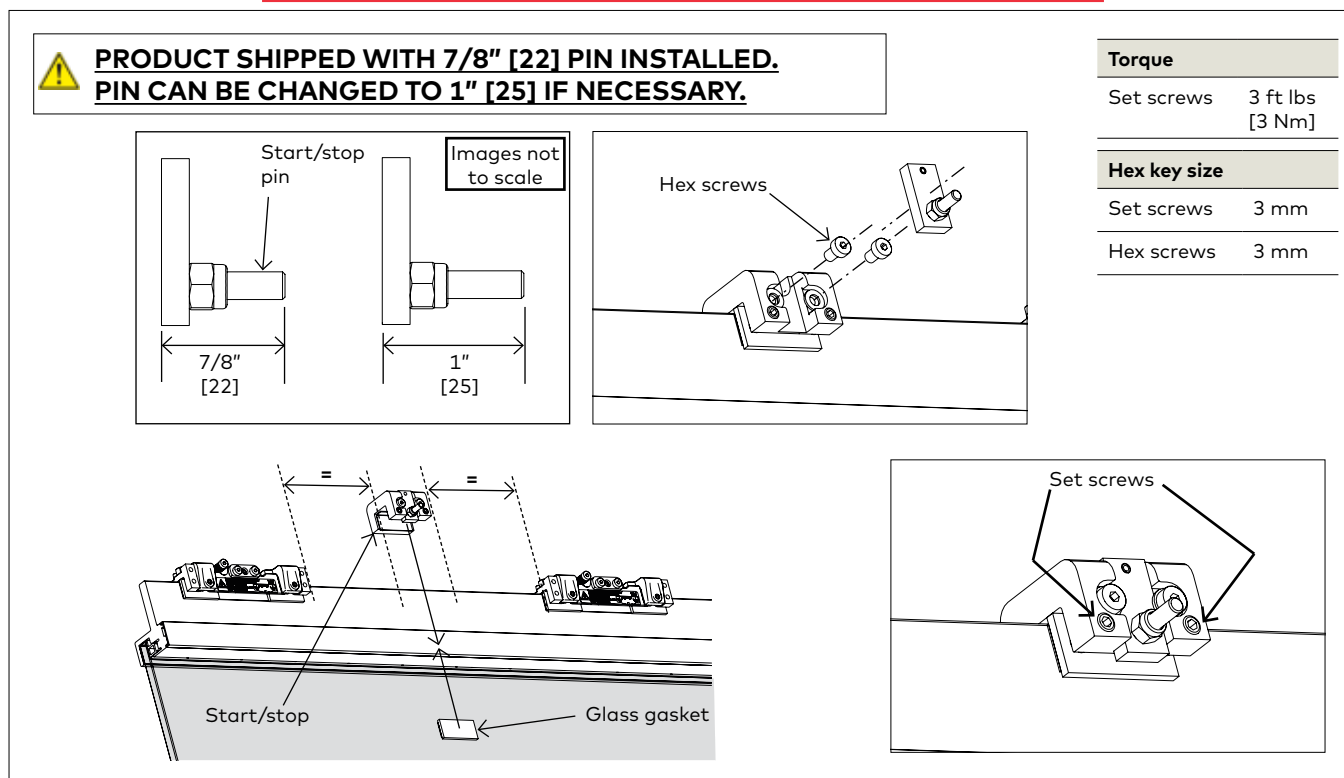
NOTE: Orient with gasket facing the clamp profile.

4.6.3   Secure roller carriers to clamp profile at 5 ft lbs (6 Nm).

4.7 Installing DORMOTION start/stop (optional)

Fig 28 **DISREGARD IF SYSTEM IS LESS DORMOTION**

⚠ **PRODUCT SHIPPED WITH 7/8" [22] PIN INSTALLED.
PIN CAN BE CHANGED TO 1" [25] IF NECESSARY.**

Torque	
Set screws	3 ft lbs [3 Nm]

Hex key size	
Set screws	3 mm
Hex screws	3 mm

NOTE: **Determine a pin length based upon how square and plumb the opening is.**

4.7.1   If required, change pin in start/stop assembly.
•   Remove hex screws.
•   Remove existing pin and plate.
•   Swap in appropriate pin and plate.
•   Replace hex screws.

4.7.2   Slide start/stop onto glass.
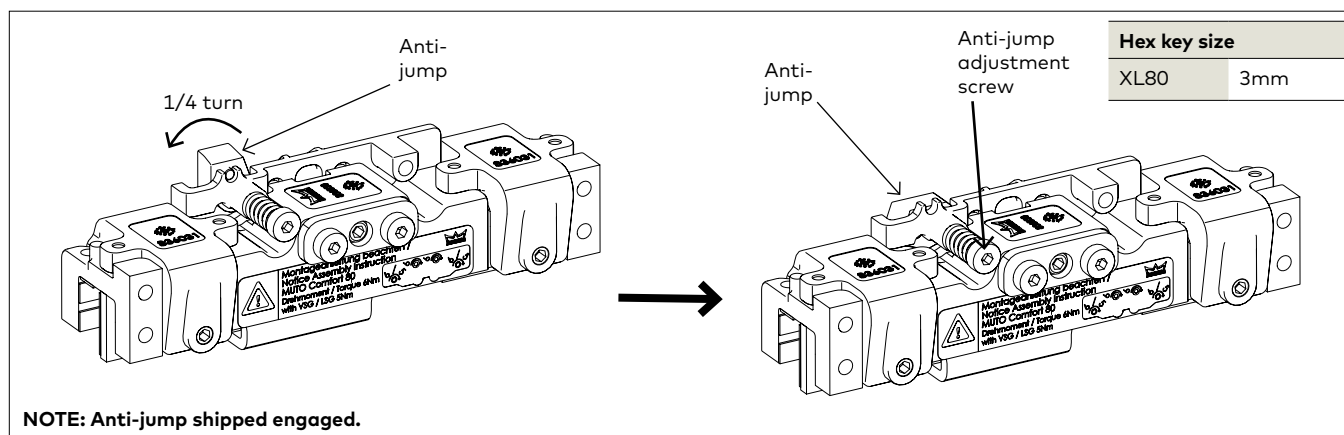4.7.3   Center equally between the carriers.
4.7.4   Slide glass gasket between start/stop and glass.
NOTE: **Orient with gasket facing glass.**
4.7.5   Secure start/stop via set screws.

4.8 Disengaging the anti-jump

Fig 29

Hex key size	
XL80	3mm

NOTE: Anti-jump shipped engaged.

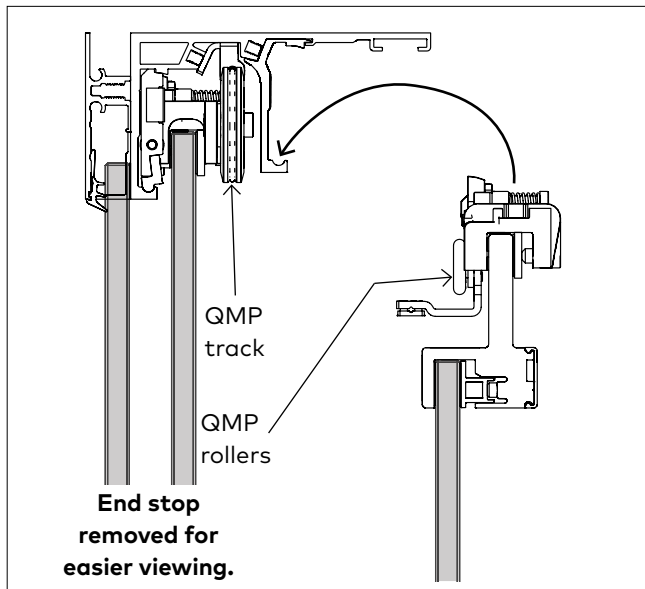4.8.1   Disengage the anti-jump on roller carrier.

4.8.2   Using the appropriate size hex key, push anti-jump adjustment screw IN and turn **COUNTER-CLOCKWISE** 90° to disengage anti-jump.
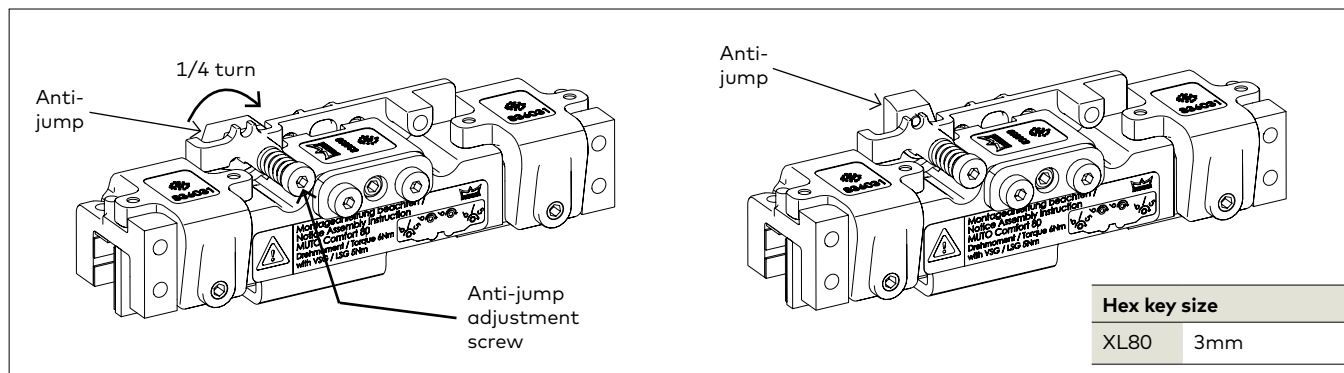
4.9 Install glass/rollers in QMP track

Fig 30

⚠️ **ENSURE ROLLERS AND TRACK ARE FREE OF DEBRIS.**

4.9.1 Place QMP glass on setting blocks on floor for stability.

4.9.2 Lift glass and QMP rollers up and rest rollers on track.

QMP track

QMP rollers

End stop removed for easier viewing.

4.10 Engaging anti-jump

Fig 31

1/4 turn

Anti-jump

Anti-jump

Anti-jump adjustment screw
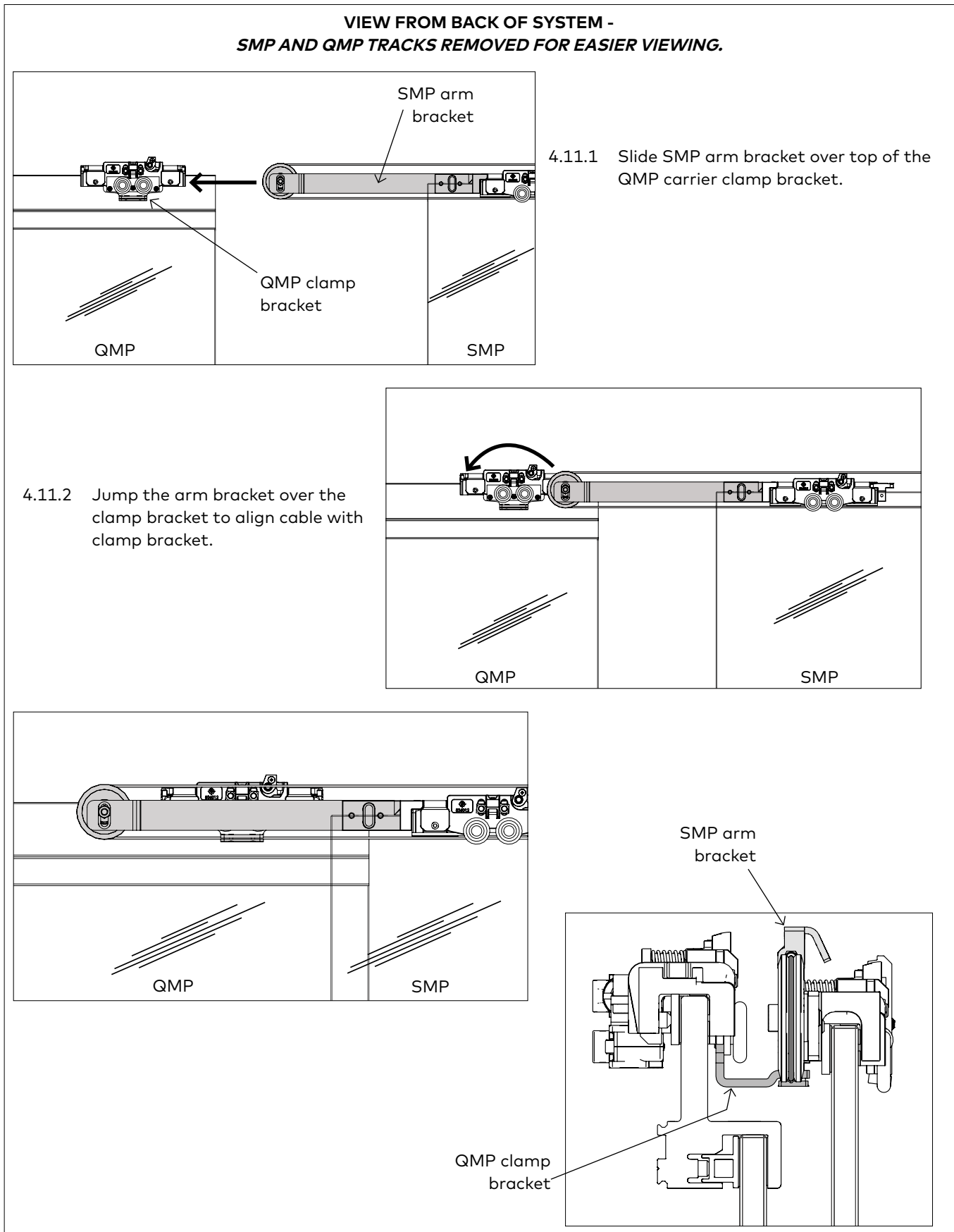
Hex key size	
XL80	3mm

4.10.1 Engage anti-jump on roller carrier.

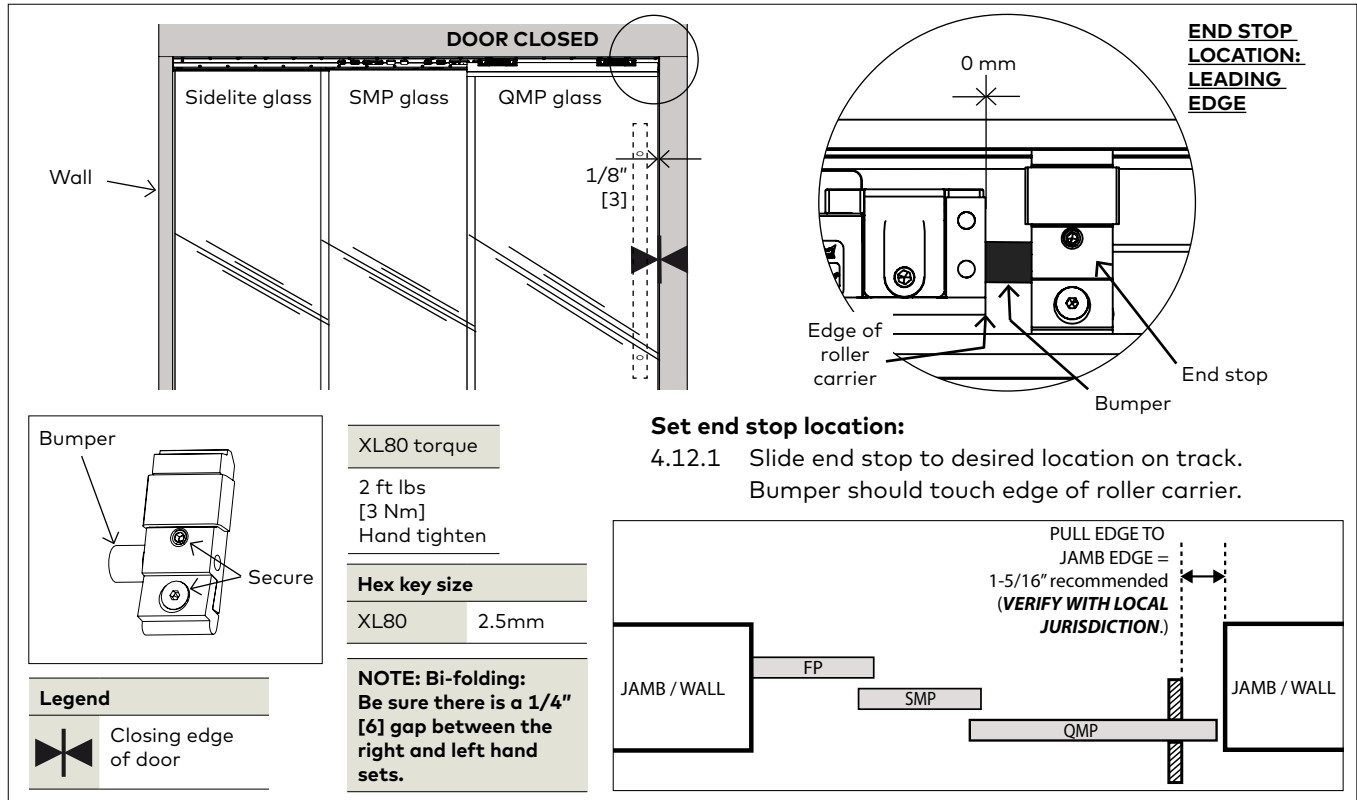4.10.2 Using a hex key, push anti-jump adjustment screw IN and turn **CLOCKWISE** 90° to engage anti-jump.
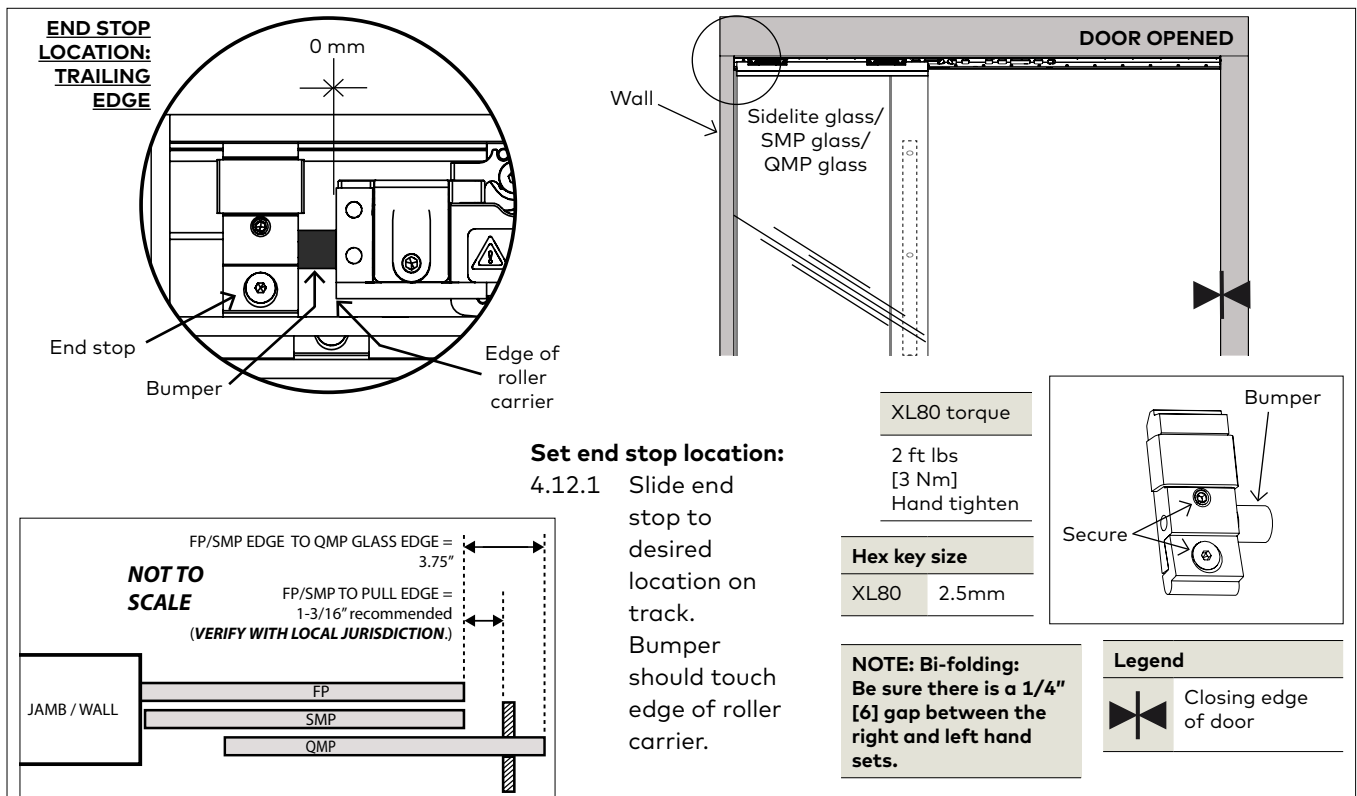
4.11   Align the cable

Fig 32

VIEW FROM BACK OF SYSTEM -
SMP AND QMP TRACKS REMOVED FOR EASIER VIEWING.

SMP arm bracket

4.11.1   Slide SMP arm bracket over top of the QMP carrier clamp bracket.

QMP clamp bracket

QMP

SMP

4.11.2   Jump the arm bracket over the clamp bracket to align cable with clamp bracket.

QMP

SMP

QMP

SMP

SMP arm bracket

QMP clamp bracket

4.12 Adjustment end stop location: LEADING end stop

Fig 33

Set end stop location:

4.12.1 Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

XL80 torque

2 ft lbs
[3 Nm]
Hand tighten

Hex key size	
XL80	2.5mm

NOTE: Bi-folding: Be sure there is a 1/4" [6] gap between the right and left hand sets.

Legend

◄►◄ Closing edge of door

Adjustment end stop location: TRAILING end stop

Fig 34

Set end stop location:

4.12.1 Slide end stop to desired location on track. Bumper should touch edge of roller carrier.

XL80 torque

2 ft lbs
[3 Nm]
Hand tighten

Hex key size	
XL80	2.5mm

NOTE: Bi-folding: Be sure there is a 1/4" [6] gap between the right and left hand sets.

Legend

◄►◄ Closing edge of door

4.13   Securing the cable to the QMP cable clamp

Fig 35

Hex key size	
XL80	Cross-head screw driver (magnetic recommended)

VIEWED FROM BACK OF TRACK/CARRIERS
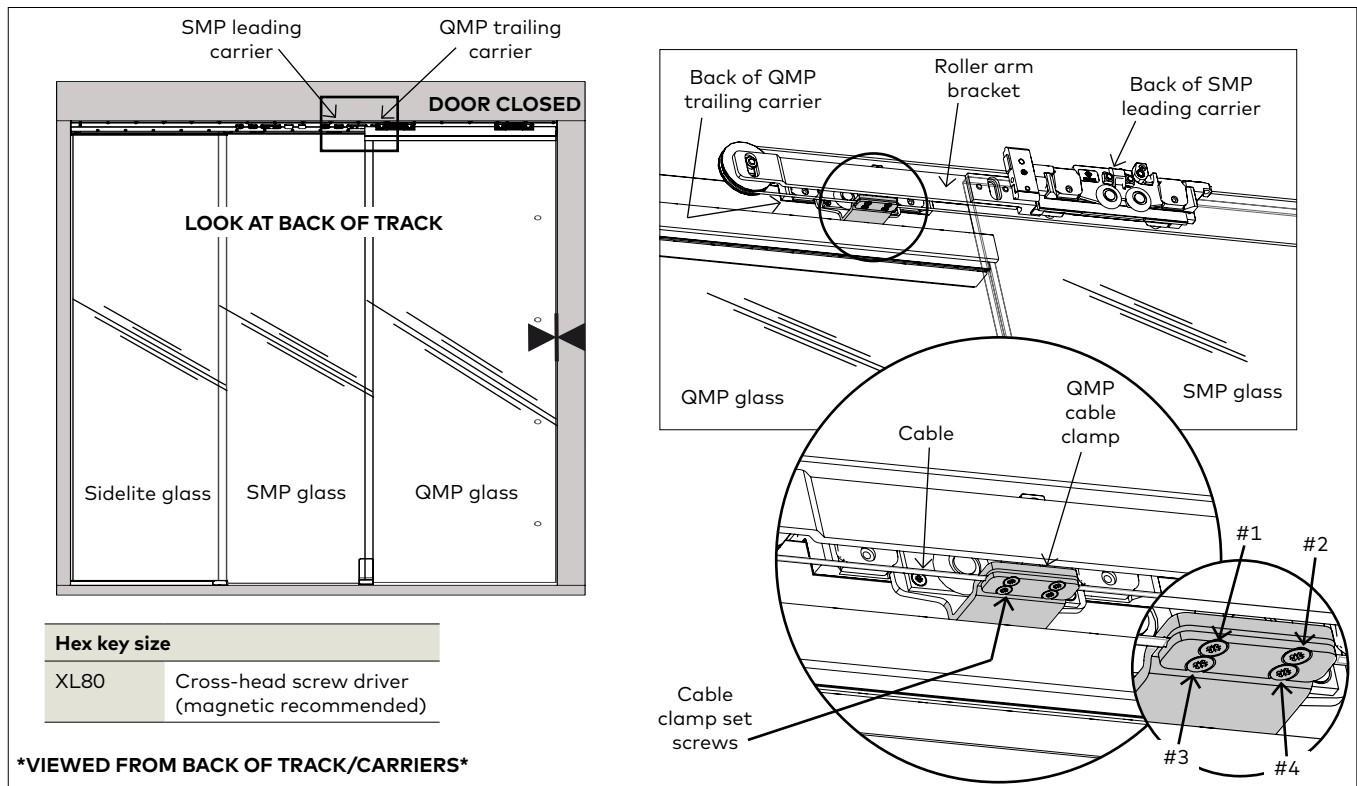
4.13.1   **Remove** cable clamp set screws **#1** and **#2**.

4.13.2   **Loosen** cable clamp set screws **#3** and **#4**.

4.13.3   Align cable inside clamp.

4.13.4   Reinsert and retighten all screws.

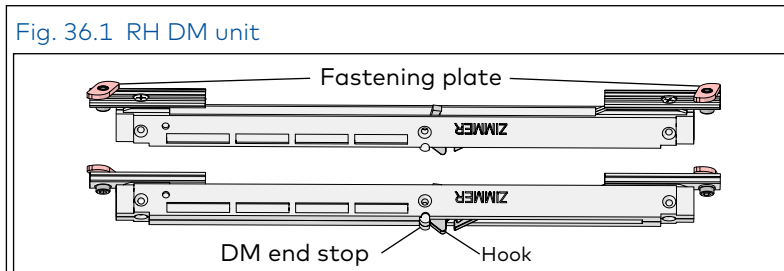## 4.14   Install DORMOTION units into QMP track (optional)

Fig. 36 DM unit installation

Fig. 36.1 RH DM unit

Fastening plate

DM end stop — Hook

Fig. 36.2 RH DM unit fastening plates rotated
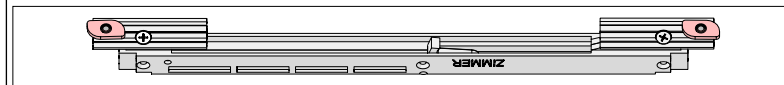
Fig. 36.3 RH DM unit inserted in track

DM unit   DM trigger block

← Door closed
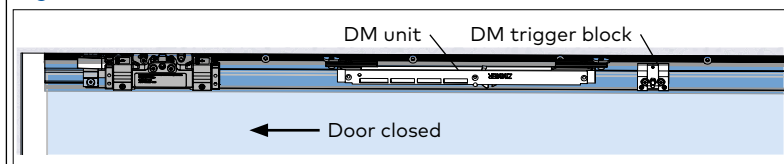
Fig. 36.4 DM unit hook positioned in trigger

DM hook
DM end stop   Trigger

Roller carrier
Bumper
RH DM unit

← Door closed
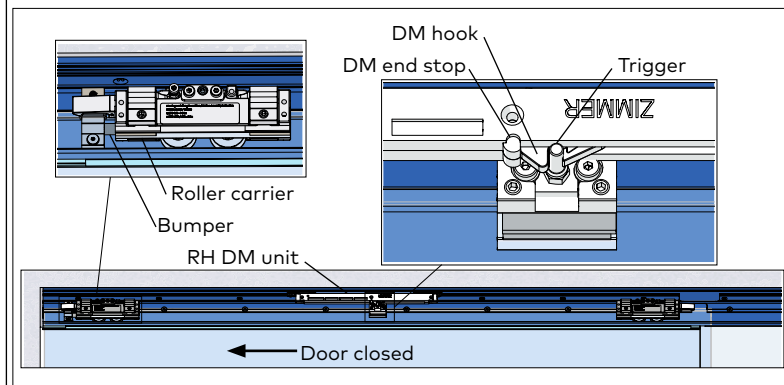
Fig. 36.5 DM unit end stop positioned 5 mm from DM hook

Adjustment tool   Fork gap   DM hook
Fork   DM end stop   Trigger

Bumper   RH DM unit

← Door closed
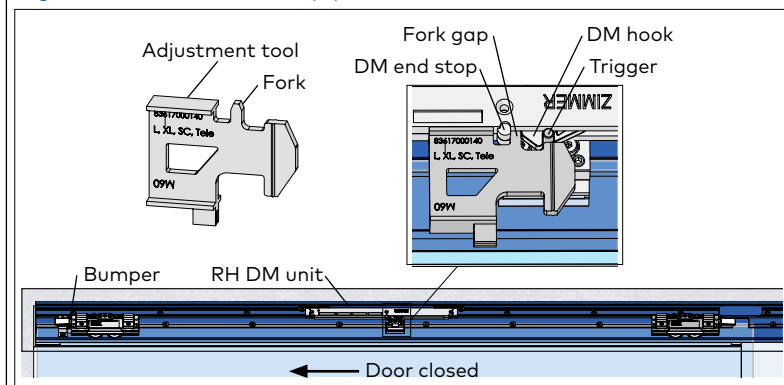
Fig. 36.6 RH DM unit fastening plates secured in track

Plates rotated   Fastening plates

SHCS   SHCS
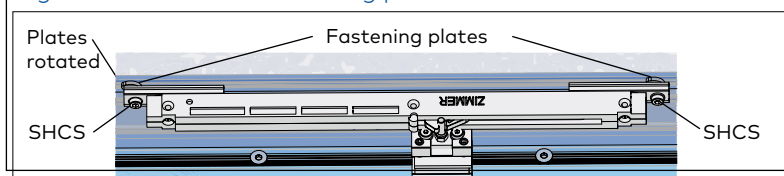
4.14.1   Rotate RH DM fastening plates.

- Using 4 mm hex key, loosen fastening plate hex screws.
- Rotate fastening plates until they are parallel to the DM unit (Fig. 36.2)
- Snug hex screws.

4.14.2   Move door to close position.

- For installation of RH DM unit, door must be in the closed position against bumper.

Fig. 36.7 DM unit aligned in track
Incorrect orientation   Correct orientation
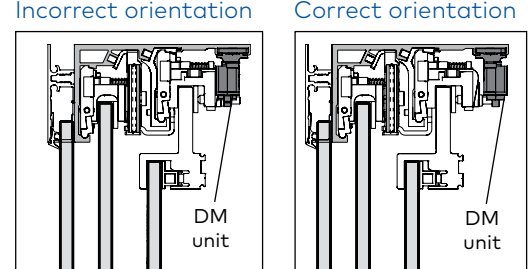
DM unit   DM unit

4.14.3   Align DM unit in track, engage DM hook in DM trigger.

- Align DM unit in track (Fig. 36.7).
- Slide DM unit over the DM trigger block until the DM hook engages the DM trigger (Fig. 36.4)

4.14.4   Use adjustment tool to set DM unit final position.

- Place adjustment tool flat against DM unit with fork between DM hook and DM end stop (Fig. 36.5).
- Slide DM unit over until hook and DM end stop are against the fork. This sets 5 mm gap (Fork gap).
- **Trigger height:** Adjust so trigger sets on top of adjustment tool (Para. 4.15).

4.14.5   Secure the DM unit in position.

- NOTE: Insure door is fully closed against bumper before performing this step.
- Using 4 mm hex key, tighten DM unit fastening plate socket head cap screws . Fastening plates must engage the track (Fig. 36.6 and .8).

Torque	
Socket head cap screws	3 ft lbs [4 Nm]

Fig. 36.8 RH DM unit installed in track
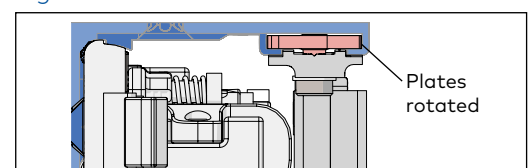
Plates rotated

Fig. 36 DM unit installation (Con't)

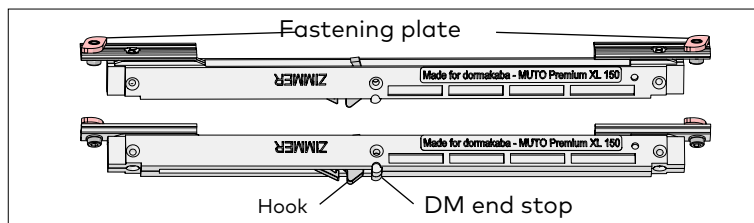### Fig. 36.9 LH DM unit

Fastening plate

Hook   DM end stop

Fig. 36.10 LH DM unit fastening plates rotated
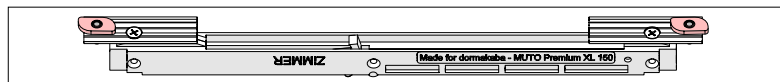
Fig. 36.11 LH DM unit inserted in track

LH DM unit   DM trigger block
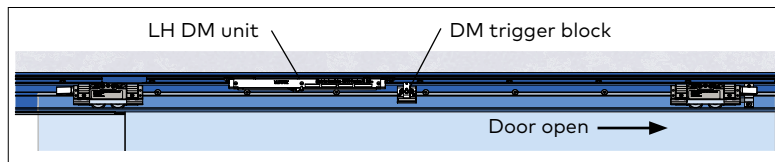
Door open ⟶

Fig. 36.12 DM unit hook positioned in trigger

Trigger   DM hook
DM end stop

Roller carrier   Bumper
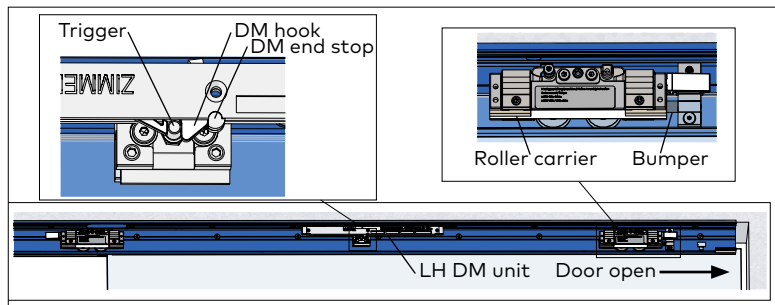
LH DM unit   Door open ⟶

Fig. 36.13 DM unit end stop positioned 5 mm from DM hook

Adjustment tool
Fork

DM hook   Fork gap
Trigger   DM end stop

LH DM unit   Bumper
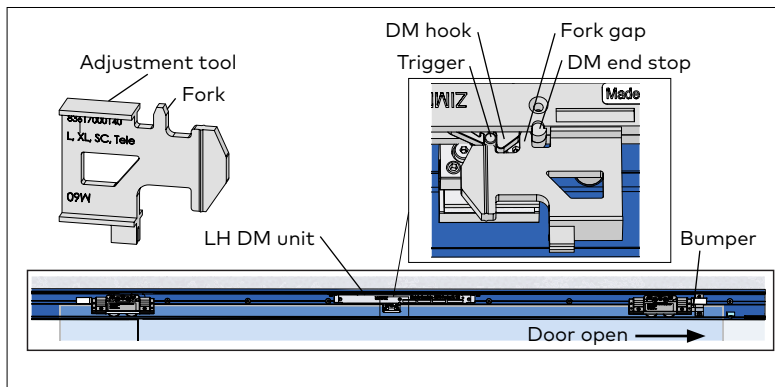
Door open ⟶

Fig. 36.14 LH DM unit fastening plates secured in track

Plates rotated
Fastening plates

SHCS   SHCS
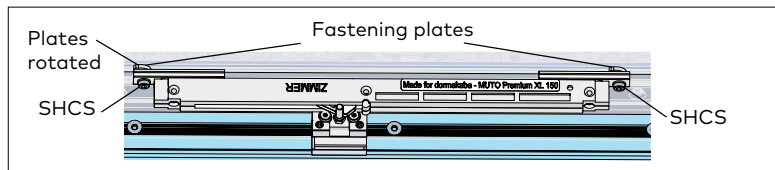
LH Dormotion -door open
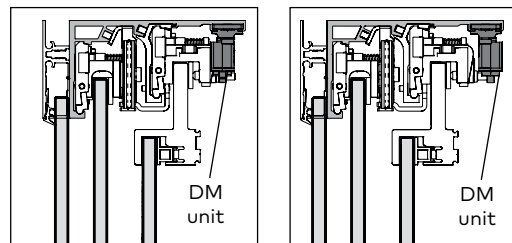
4.14.6 Rotate DM fastening plates.

- Using 4 mm hex key, loosen fastening plate hex screws.
- Rotate fastening plates until they are parallel to the DM unit (Fig. 36.10)
- Snug hex screws.

4.14.7 Move door to open position.

- For installation of LH DM unit, door must be in the open position against bumper.

Fig. 36.15 DM unit aligned in track

Incorrect orientation   Correct orientation

DM unit   DM unit

4.14.8 Align DM unit in track, engage DM hook in DM trigger.

- Align DM unit in track (Fig. 36.15).
- Slide DM unit over the DM trigger block until the DM hook engages the DM trigger (Fig. 36.12)

4.14.9 Use adjustment tool to set DM unit final position.

- Place adjustment tool flat against DM unit with fork between DM hook and DM end stop (Fig. 36.13).
- Slide DM unit over until hook and DM end stop are against the fork. This sets 5 mm gap (Fork gap).
- **Trigger height:** Adjust so trigger sets on top of adjustment tool (Para. 4.15).
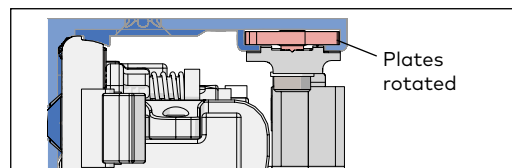
4.14.10 Secure the DM unit in position.

- NOTE: Insure door is fully open against bumper before performing this step.
- Using 4 mm hex key, tighten DM unit fastening plate socket head cap screws . Fastening plates must engage the track (Fig. 36.16).
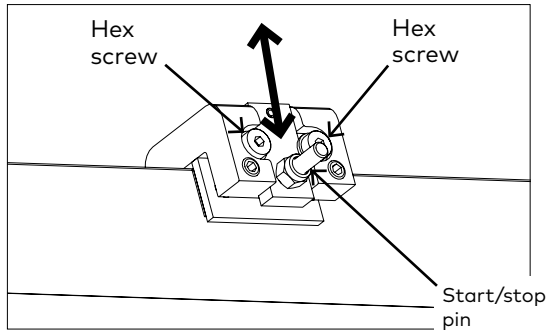
Torque	
Socket head cap screws	3 ft lbs [4 Nm]

Fig. 36.16 LH DM unit installed in track

Plates rotated

4.15 Adjust start/stop pin height (if necessary)
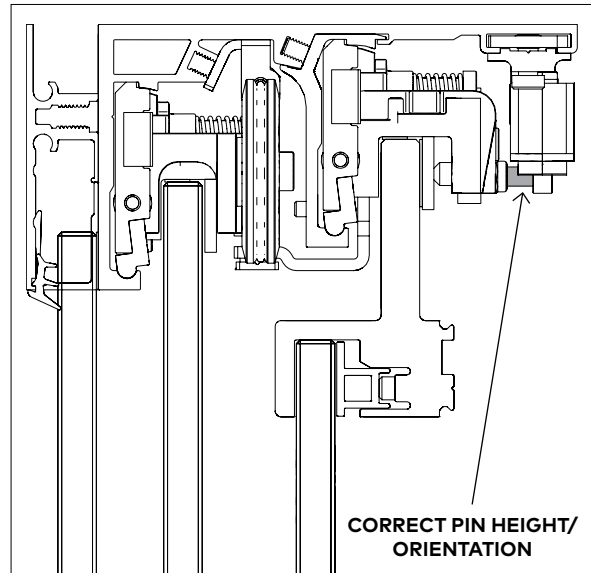
Fig 36

Hex screw

Hex screw

Start/stop pin

4.15.1 **Adjust HEIGHT of start/stop pin, if necessary**:
- Loosen hex screws.
- Slide pin and plate up or down.

Hex key size	
Hex screws	3 mm

CORRECT PIN HEIGHT/ ORIENTATION

4.16   QMP track cover and end caps
Fig 37
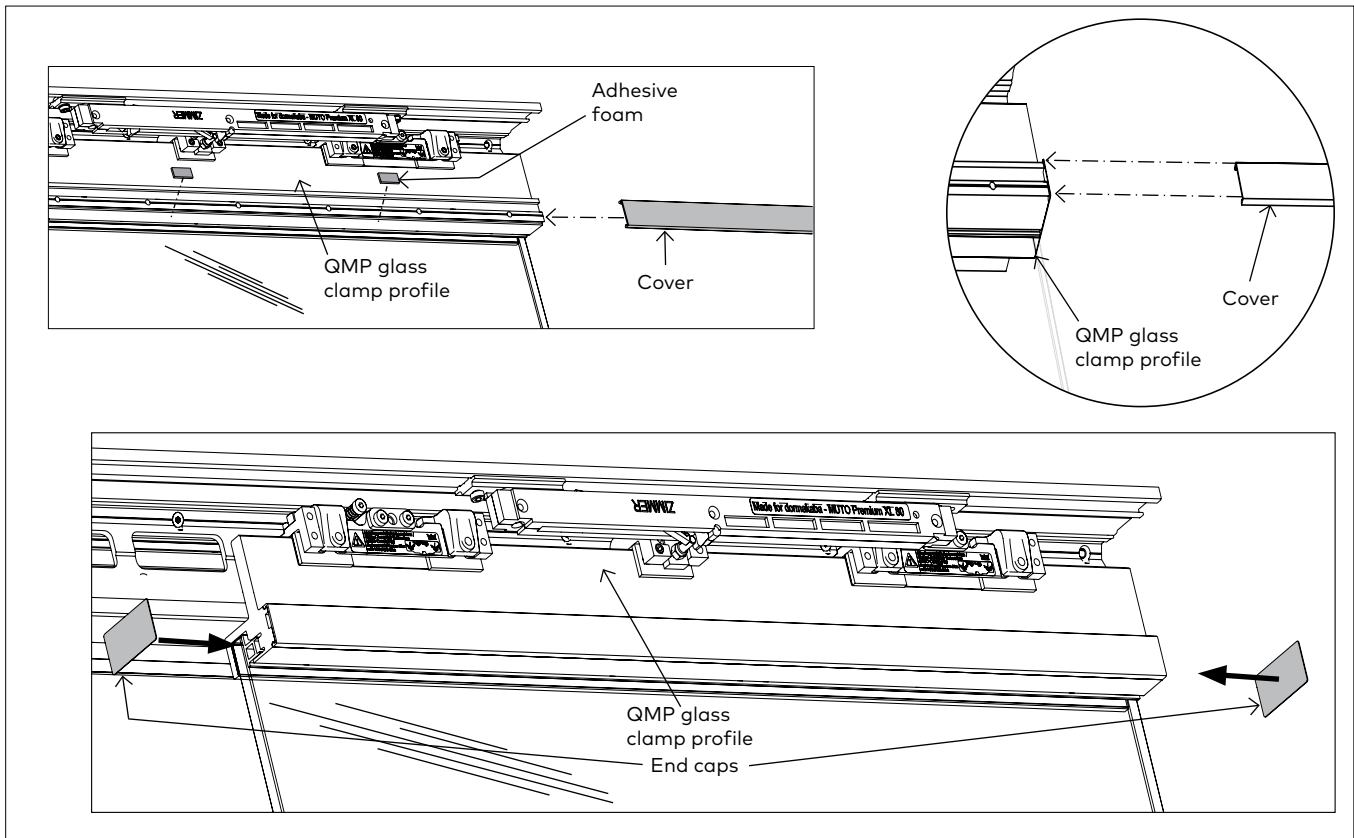
4.16.1   Add adhesive foam pieces to QMP glass clamp
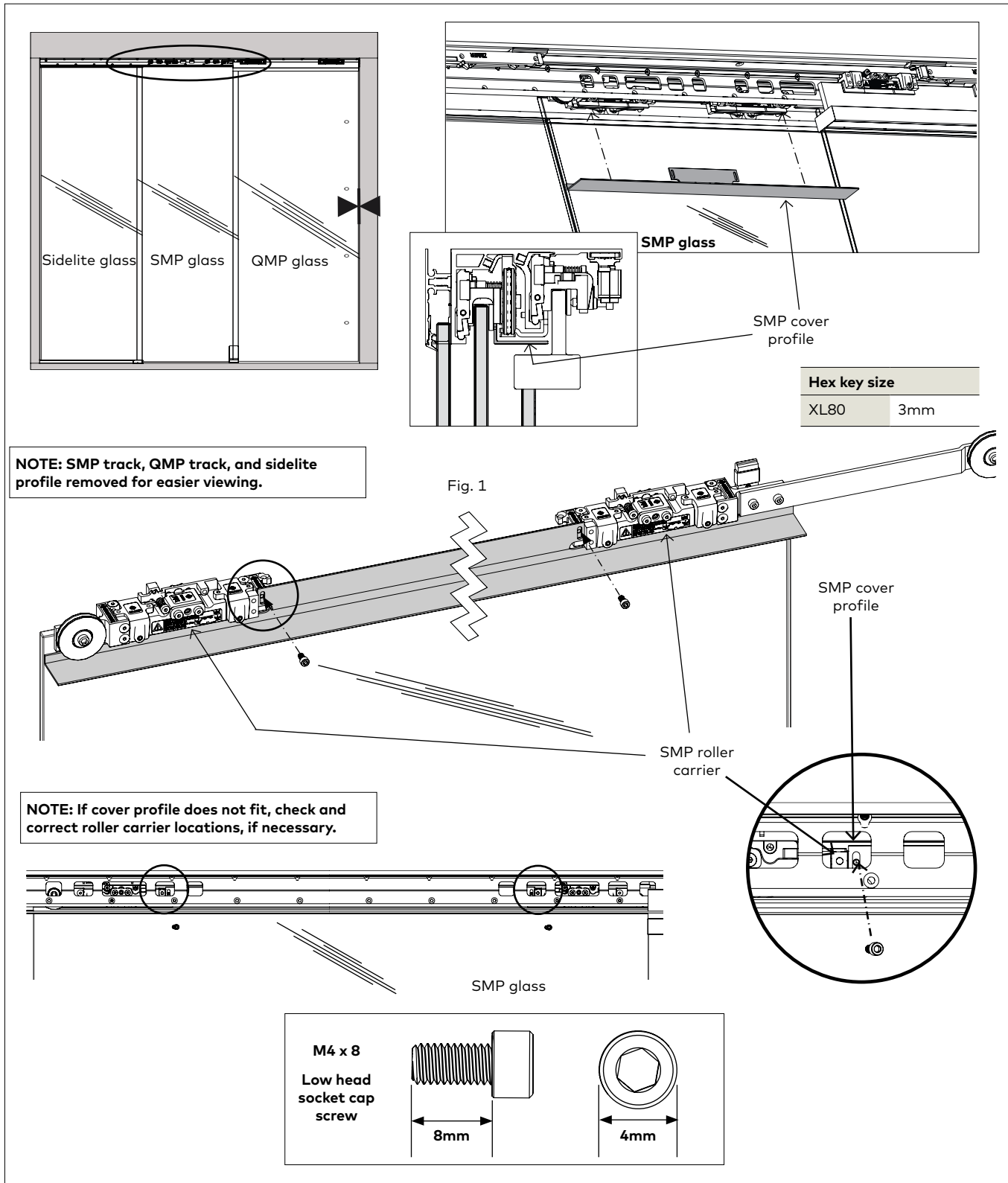   profile, spaced accordingly.
4.16.2   Peel off adhesive.

4.16.1   Slide cover over outside of profile.
4.16.2   Peel adhesive off end caps and press onto ends
        of profile.

4.17 SMP cover profile

Fig 38

Sidelite glass | SMP glass | QMP glass

SMP glass

SMP cover profile

Hex key size	
XL80	3mm

NOTE: SMP track, QMP track, and sidelite profile removed for easier viewing.

Fig. 1

SMP cover profile

SMP roller carrier

NOTE: If cover profile does not fit, check and correct roller carrier locations, if necessary.

SMP glass

M4 x 8

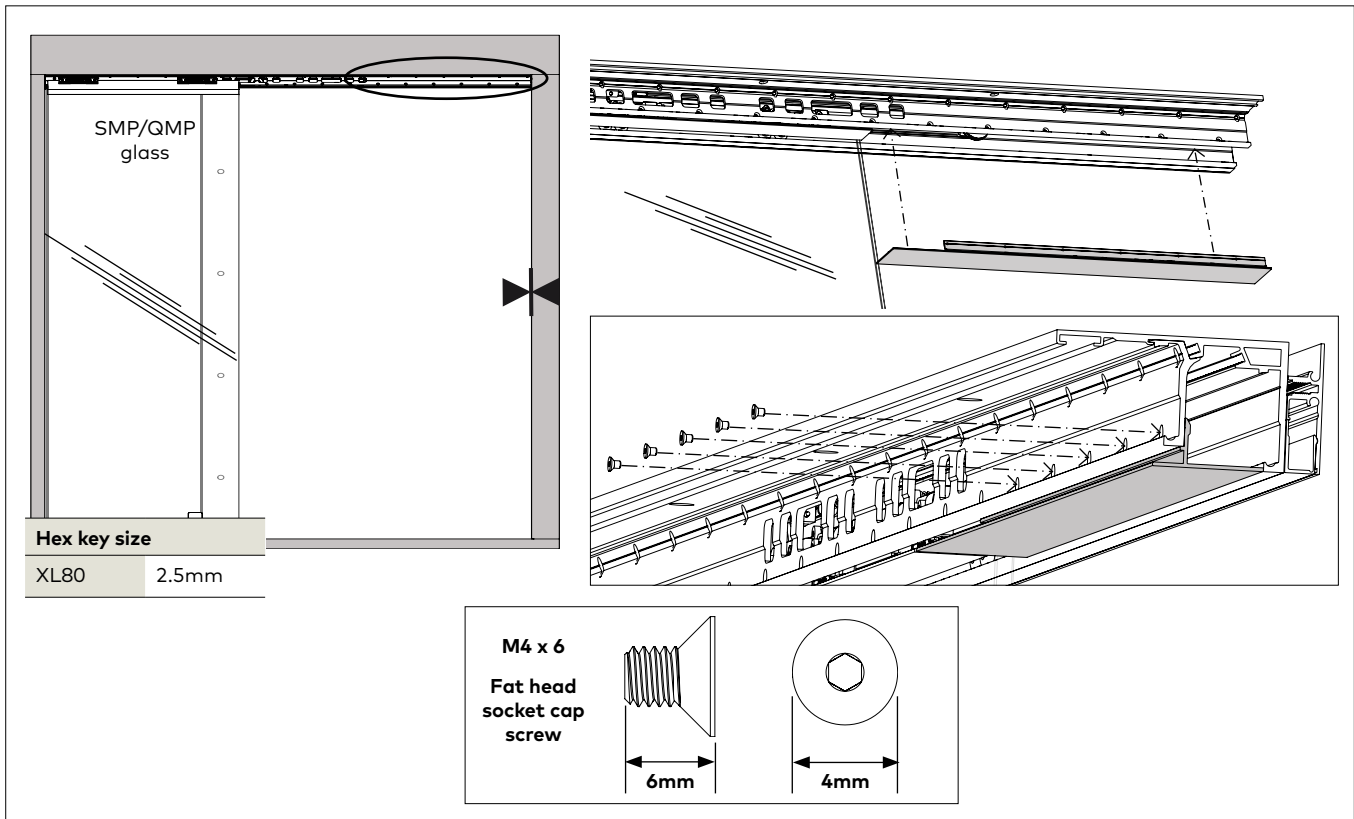**Low head socket cap screw**

8mm

4mm

4.17.1 Slide doors fully **CLOSED**.

4.17.2 Slide SMP cover profile up and between the SMP roller carriers as shown in Fig. 1 above.

4.17.3 Secure with included fasteners.

4.18 Cover profile for passage

Fig 39

Hex key size	
XL80	2.5mm

M4 x 6

**Fat head
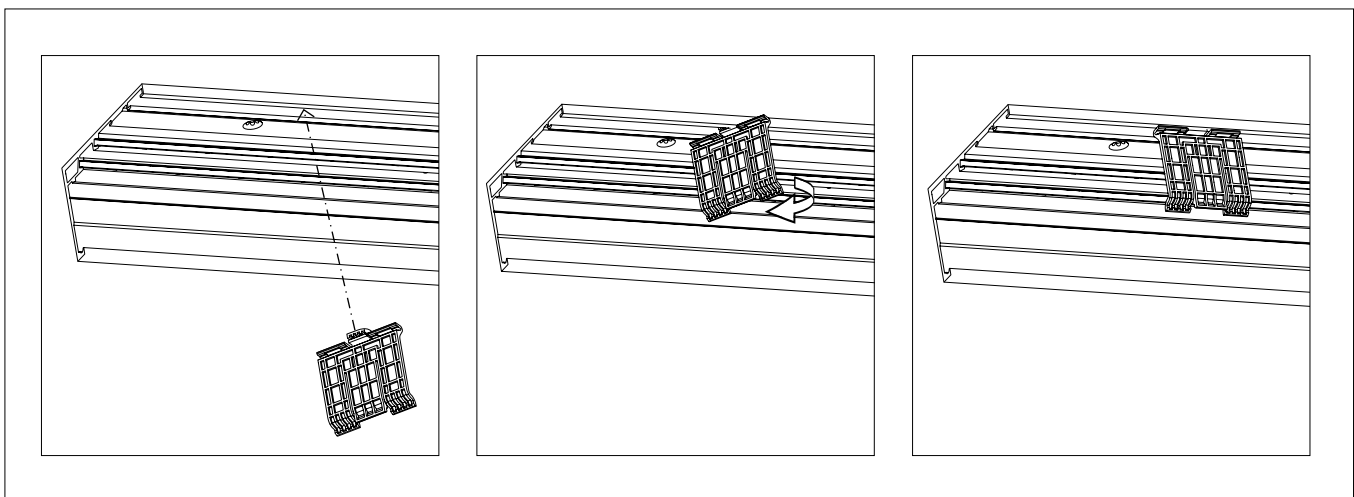socket cap
screw**

6mm   4mm

4.18.1 Slide both doors all the way **OPEN**.

4.18.2 Slide cover profile for passage up behind QMP track.

4.18.3 Secure cover profile for passage with all included fasteners at 2 ft lbs [2.5Nm].
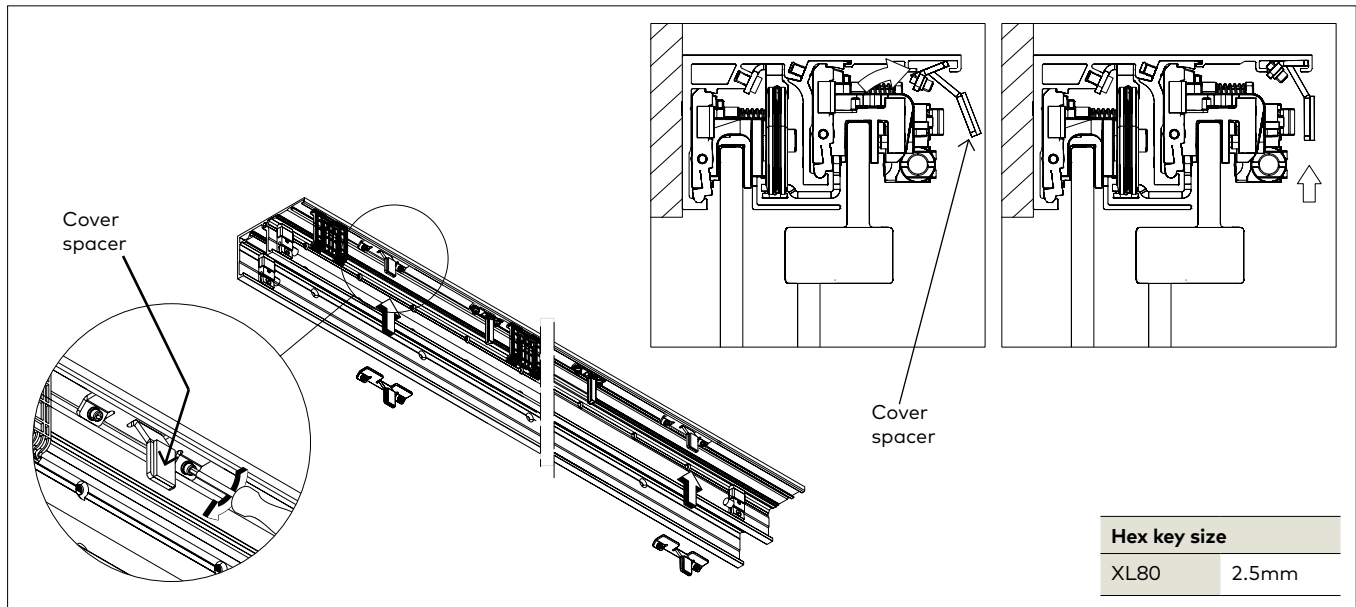
4.19 Cover clips

Fig 40

4.19.1 Insert cover clips into track (one clip per foot).

4.19.2 Insert perpendicular to track, and turn **CLOCKWISE** to snap into place.
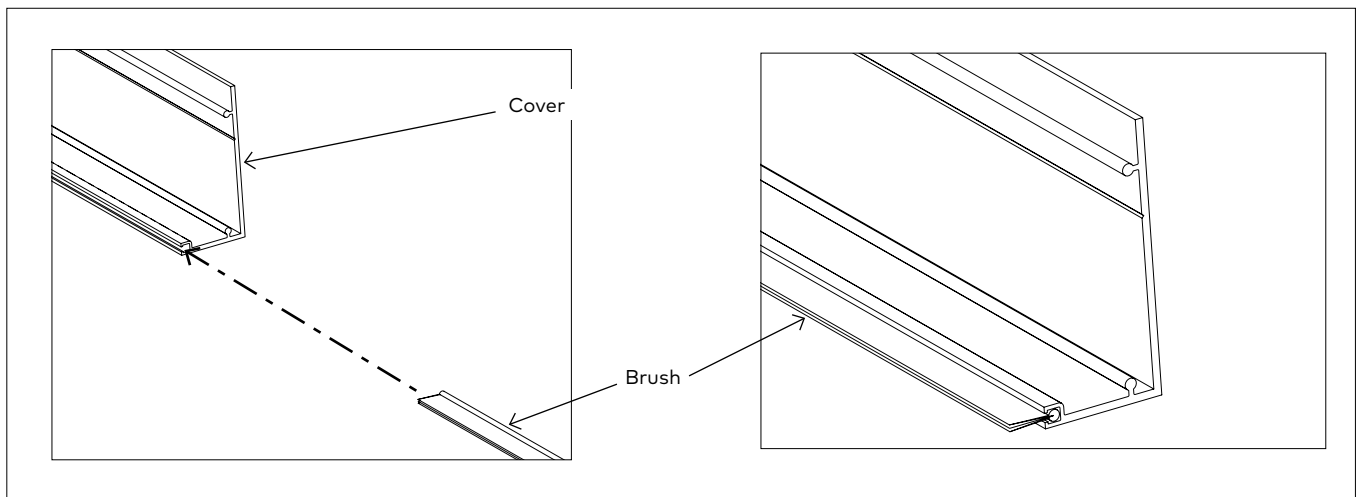
4.20   Cover spacers

Fig 41

Hex key size	
XL80	2.5mm

4.20.1   Tip cover spacers into outter most edge of track.

4.20.2   Place one at each end of track as shown.
4.20.3   Tighten at at hand tighten.

4.21   Install brush profile
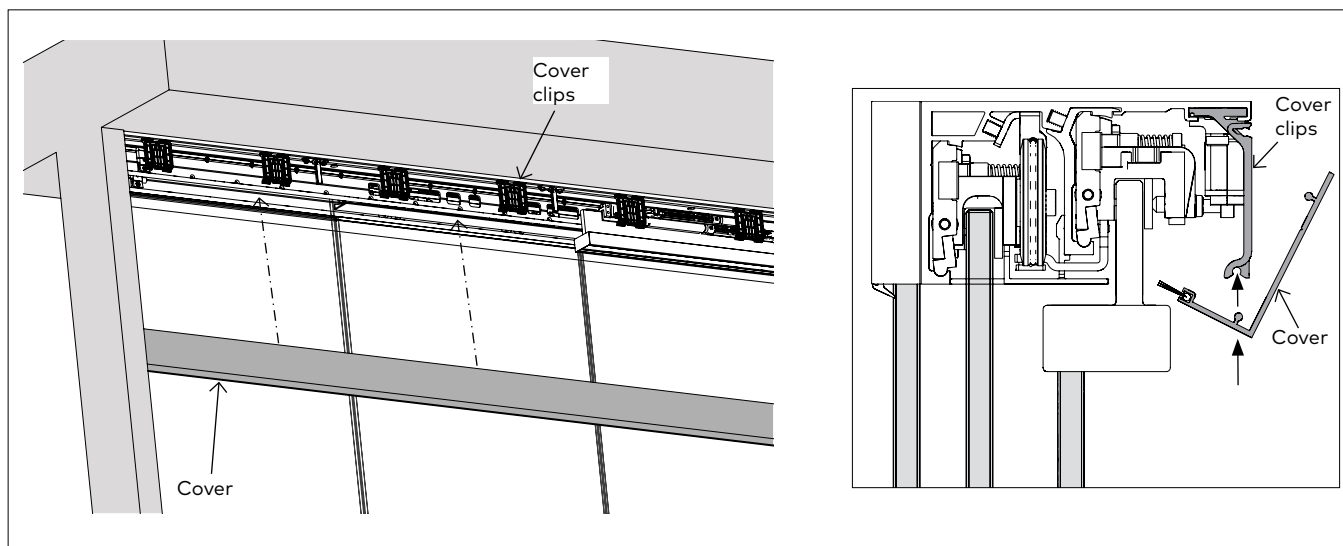
Fig 42

4.21.1   Match brush to cover length.

4.21.2   Slide brush into cover.

4.22   Secure system cover

4.22.1   Secure cover to clips and snap into place.
**NOTE: Roll cover from the bottom upwards. Ensure the
bottom of the cover is supported by the groove in the
cover clip.**

4.22.2   Snap end caps onto track.

Scan for product details and downloads.
Call 800-523-8483 or visit
glasstechserv.us@dormakaba.com
for assistance or warranty information

dormakaba USA, Inc.
1 Dorma Drive, Drawer AC
Reamstown, PA 17567