

GEZE ISM Boxer

- DE Boxer Gleitschiene mit integrierter
Schließfolgeregelung
- GB Boxer guide rail with integrated
closing sequence control
- FR Boxer bras à coulisse avec régulation
intégrée de fermeture en cascade

- DE Montageanleitung
- GB Installation instructions
- FR Instruction de montage

153316-01

1 About this document

These instructions describe the installation and commissioning of the GEZE Boxer ISM guide rail.

In conjunction with:

- Geze Boxer size 2-4
- Geze Boxer size 3-6

ISM Boxer: Opening angle of doors approx. 120°.

Version small hinge distance (1130-1300 mm): Opening angle of doors: approx. 100°.

Version small fixed leaf (min. leaf width 420 mm plus space requirement of the locking system):

Opening angle of doors: moving leaf approx. 120° / fixed leaf approx. 100°.

1.1 Product description

This slide rail is approved for installation on double-leaf fire and smoke protection doors. The system contains an integrated closing sequence control. If the moving leaf is closed with the door leaves opened, the moving leaf remains in its waiting position until the fixed leaf is closed and releases the moving leaf via the closing sequence control.

If a double leaf smoke or fire protection door can be opened via the passive leaf, without opening the active leaf up to the minimal waiting position of the sequence control, a preferably adjustable carry bar such as the GEZE CBflex must be used to ensure the functionality of the door sequence control unit.

1.2 Related documents

Additional documents for the installation and connection of the system are supplied with every component.

Please follow these instructions.

For mounting of the door closer, refer to the Boxer mounting instructions.

2 Key to symbols

Warning

In these instructions, warnings are used to warn against material damage and injuries.

- ▶ Always read and observe these warnings.
- ▶ Follow all instructions marked with the warning symbol and the word WARNING.

Warning symbol	Warning	Meaning
	DANGER	Danger for people. Non-observance can result in death or serious injuries.
—	CAUTION	Information to prevent damage to property and to understand and optimise workflow.

Further symbols used in these instructions

Important information and technical notes are emphasised to illustrate the correct operation.

Symbol	Meaning
	means "Important note"
	means "Additional information"
▶	Symbol for a user action. Here you have to take an action. ▶ Observe the sequence if there are several action steps.

3 Product liability

According to the definition of manufacturer's liability for his products in the Product Liability Act, the information contained in this brochure are to be followed. Ignoring this information absolves the manufacturer from his liability.

4 Safety instructions

- Installation, commissioning and repairs must be performed by a specialist.
- Use only GEZE original parts for repair work.
- Unauthorised modifications of the system excludes GEZE from the liability for any resulting damage.
- When used in fire and smoke barriers, all local regulations should be observed.
- **Restrict the opening angle of the doors by a door stopper.**

5 Scope of delivery

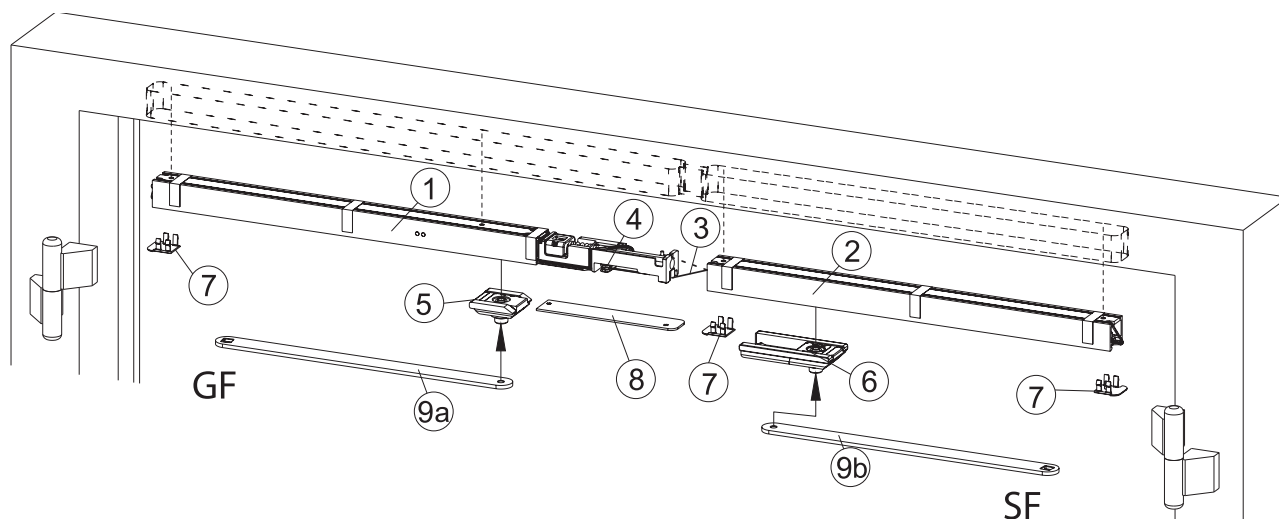


Fig.: 5.1.1

GF	Moving leaf	3	Wire cable for trigger	7	End caps
SF	Fixed leaf	4	Trigger	8	Cover panel
1	ISM Boxer GF guide rail	5	Sliding block GF	Screws and accessories bag (without illustration)	
2	ISM Boxer SF guide rail	6	Sliding block SF		

ISM Boxer standard

(see Chapter 6.1.1)

9a Sliding lever GF (L = 317 mm)

9b Sliding lever SF (L = 317 mm)

ISM Boxer small hinge distance

(see Chapter 6.1.2)

9a Sliding lever GF (L = 240 mm)

9b Sliding lever SF (L = 240 mm)

ISM Boxer small fixed leaf

(see Chapter 6.1.3)

9a Sliding lever GF (L = 317 mm)

9b Sliding lever SF (L = 240 mm)

6 Mounting and securing

► Prepare the door as shown in chapter 6.1.

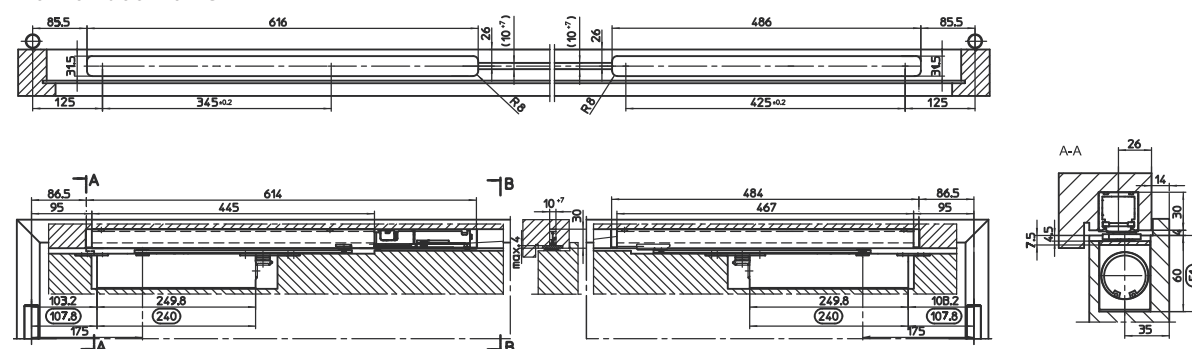
► Fit the Boxer and sliding lever and close the closing time valve.

On request, GEZE will provide installation drawings for most common door profiles.

6.1 Drilling template

6.1.1 ISM Boxer

Work on doorframe



Work on leaf GEZE Boxer size 3-6/size 2-4

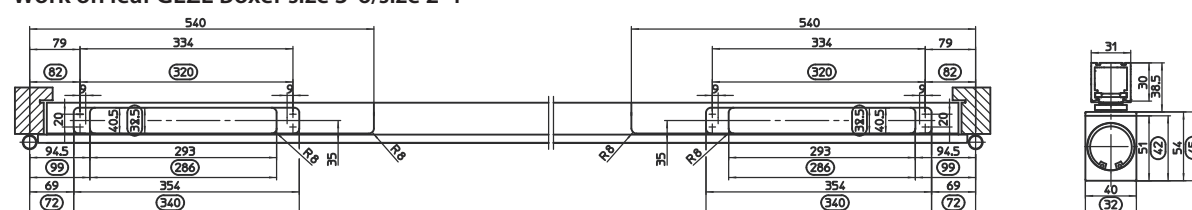
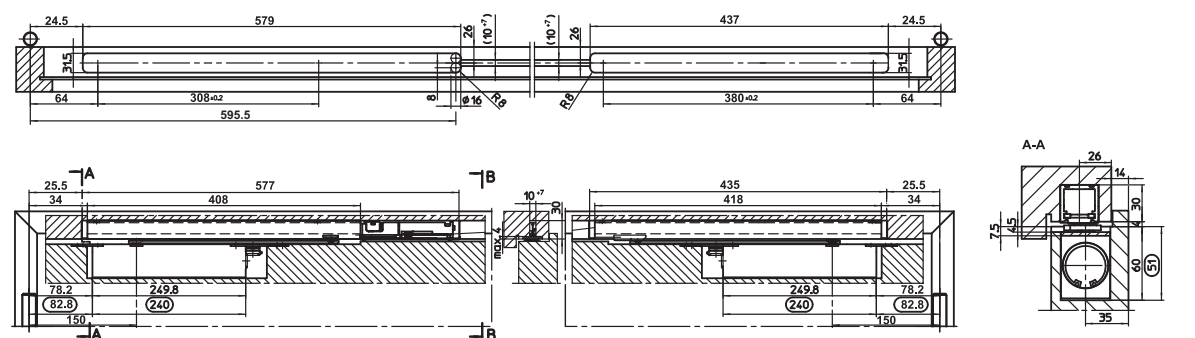
Work on frame and leaf for right leaf, mirror image Dimensions in ☐ for GEZE Boxer size 2-4

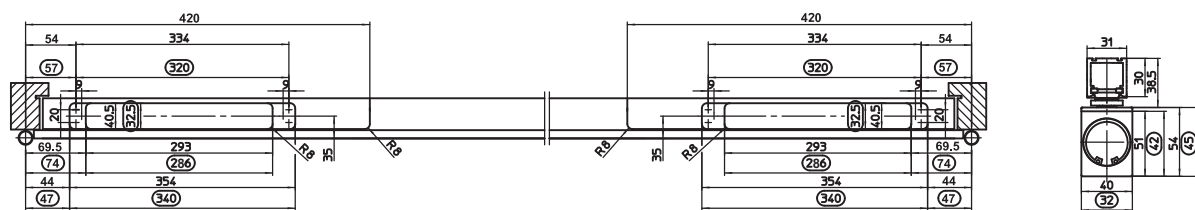
Fig.: 6.1.1.1

6.1.2 Version small hinge distance

Work on doorframe



Work on leaf GEZE Boxer size 3-6/size 2-4

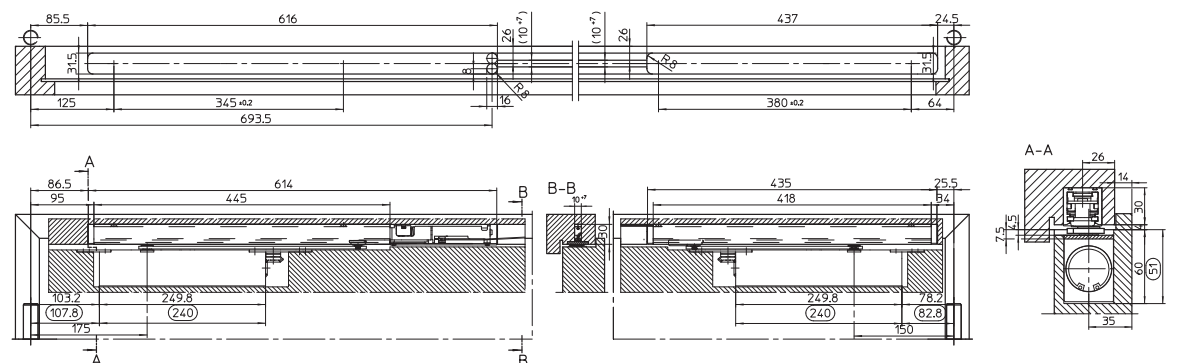


Work on frame and leaf for right leaf, mirror image Dimensions in ☐ for GEZE Boxer size 2-4

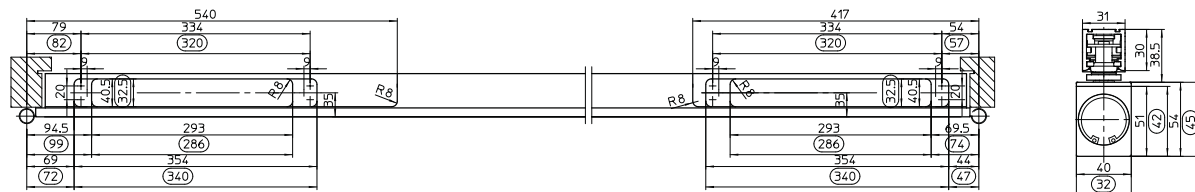
Fig.: 6.1.2.1

6.1.3 Version small fixed leaf

Work on doorframe



Work on leaf GEZE Boxer size 3-6/size 2-4



Work on frame and leaf for right leaf, mirror image Dimensions in ☐ for GEZE Boxer size 2-4

Fig.: 6.1.3.1

6.2 Mounting fixed leaf guide rail

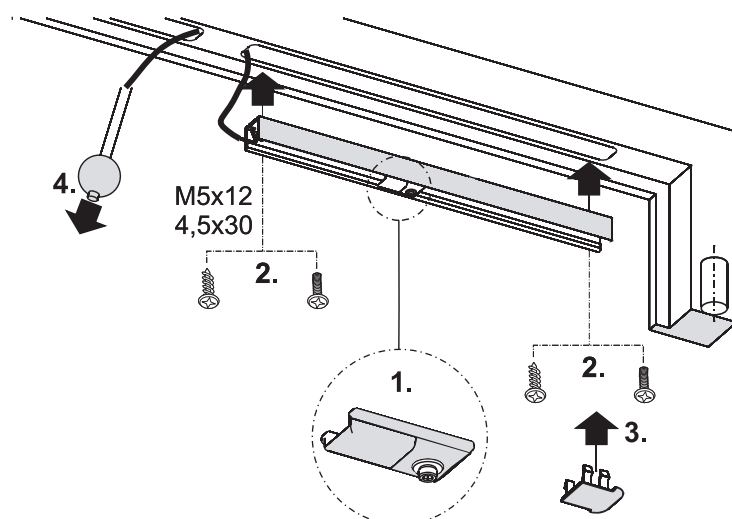


Fig.: 6.2.1

- ▶ Insert the sliding pad into the guide rail for the fixed leaf, making sure it faces the right way (1.).
 - ▶ Fasten guide rail for fixed leaf with 2 screws (2.) (tightening torque: 2 Nm).
 - ▶ Clip the end cap onto the guide rail (3.).
 - ▶ Thread the steel wire (ball to the moving) leaf through the chamber to the recess in the guide rail of the moving leaf (4.).
- All screwing torques are to be adjusted on site, if necessary.

6.3 Mounting moving leaf guide rail

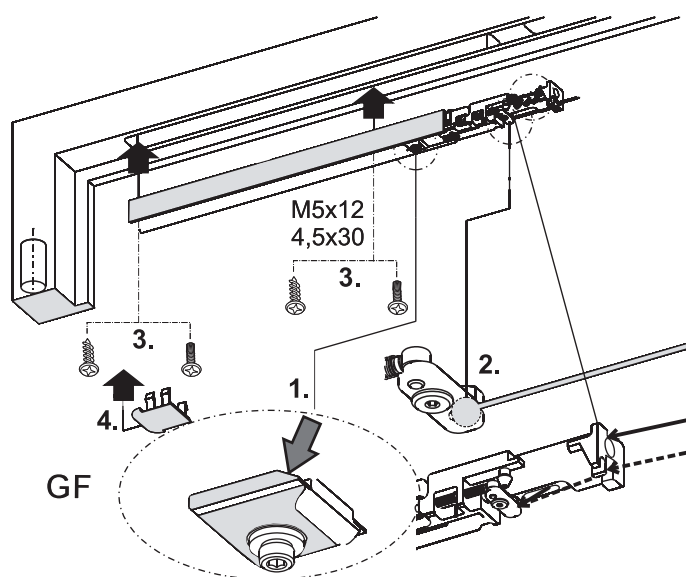


Fig.: 6.3.1

- ▶ Insert the sliding pad into the guide rail for the moving leaf, making sure it faces the right way (1.).
 - ▶ Attach the steel wire to the release lever (2.).
 - ▶ Fasten guide rail for moving leaf with 2 screws (3.) (tightening torque: 2 Nm).
 - ▶ Clip the end cap onto the guide rail (4.).
- All screwing torques are to be adjusted on site, if necessary.

6.4 Positioning the trigger unit

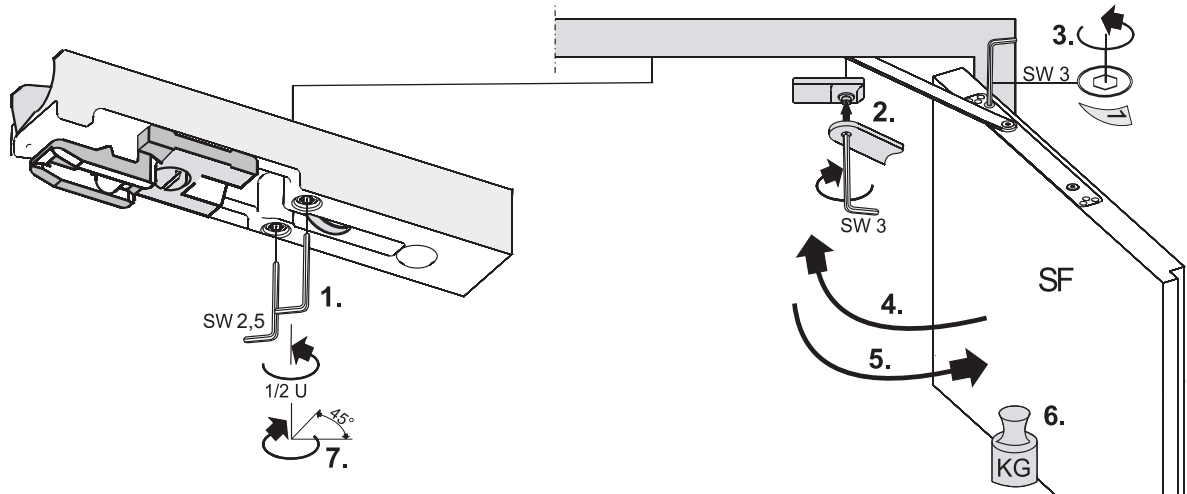


Fig.: 6.4.1

- ▶ Release the fixing screws of the release trigger by about 1/2 turn (1.).
- ▶ Connect the sliding lever with the sliding pad of the fixed leaf (2.) (tightening torque: 5 Nm).
- ▶ Open the closing time valve „1“ at the Boxer fixed leaf (3.).
- ▶ Close the fixed leaf (release trigger will be positioned) (4.).



CAUTION

When closing, make sure that the steel wire does not get wedged in the gap

- ▶ Re-open the fixed leaf (5.).
- ▶ Keep the fixed leaf open (6.).
- ▶ Insert the fixing screws of the release trigger and tighten (7.) (tightening torque: 0,4 Nm).

6.5 Connect the steel wire to the release trigger

- ▶ Thread the steel wire into the funnel and pull it out at the deflection pulley (1.).
- ▶ Engage the release slide (2.).
- ▶ Release the clamping screw (3.).
- ▶ Push the steel wire through the clamping device (4.).
- ▶ Tighten the steel wire (5.).
- ▶ Lightly tighten the clamping screw (6.).
- ▶ Cut back the steel wire to a length of about 50 mm (7.).
- ▶ Clip the end cap onto the guide rail of the secondary leaf (8.).

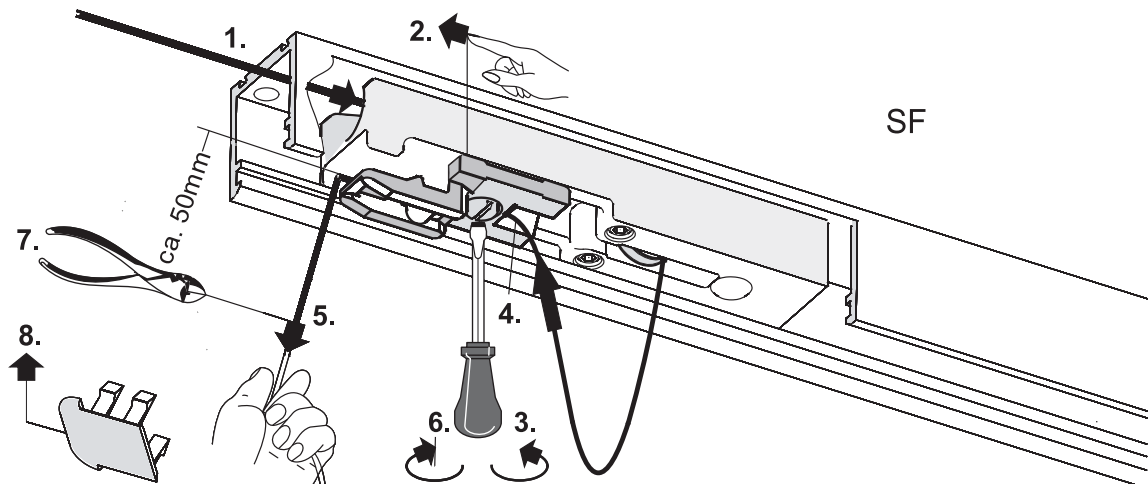


Fig.: 6.5.1

6.6 Adjust trigger and lock

- ! ▶ Ensure that the wire cable is not pinched.
When adjusted correctly, the disc and the notch must be aligned.

- ▶ Check that the release slide is still engaged. The gap between retaining disk and the mark should be 1–5 mm. (1.) (see figure A).
- ▶ Check that the release slide is still engaged. The gap between retaining disk and the mark should be 1–5 mm (2.) (see figure B).

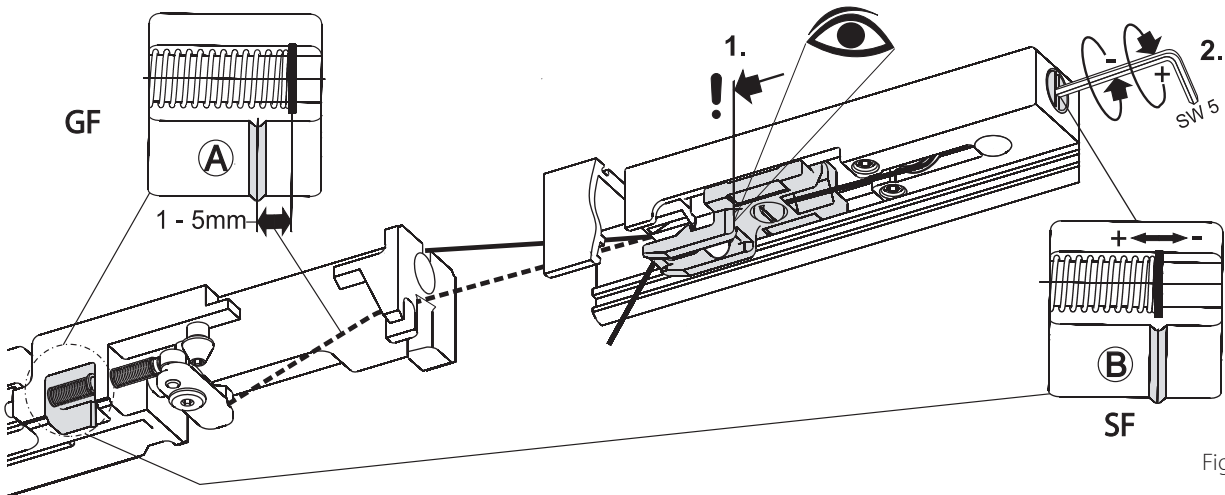


Fig.: 6.6.1

6.7 Positioning the function safeguard of the integrated closing sequence control

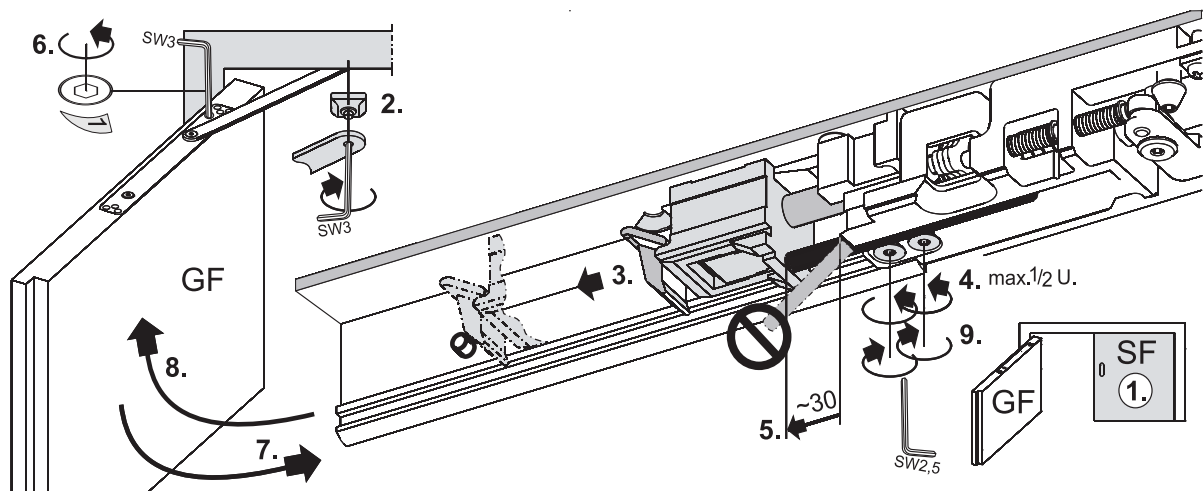


Fig.: 6.7.1

- ▶ Close the fixed leaf (1.).
- ▶ Connect the sliding lever with the sliding pad of the moving leaf. (2.) (tightening torque: 5 Nm).
- ▶ Pull out the driver (3.).
- ▶ Release the screws of the tamper-proofing device, max. 1/2 turn (4.).
- ▶ Pull out the stop bar (5.).
 - Distance edge of lock and stop bar approx. 30 mm.
- ▶ Open the closing time valve „1“ at the moving leaf (6.).
- ▶ Close the moving leaf (7.).
- ▶ **The stop bar for the tamper-proofing device has been positioned.**
- ▶ Open the moving leaf (8.).
- ▶ Tighten the screws of the tamper-proofing device (9.).

- ! **CAUTION**
Stop bar must not be pass under the driver.

6.8 Functional test - Closing sequence control

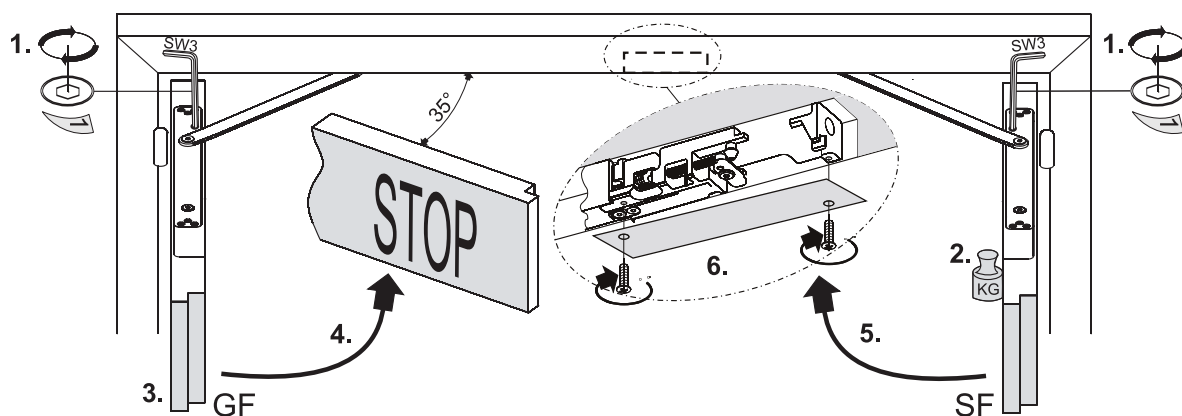


Fig.: 6.8.1

- ▶ Set the closing time for the secondary and the moving leaf (1.).
Recommended:
 - Closing time for moving leaf 5 seconds (from 90°).
 - Closing time for fixed leaf 5 seconds (from 90°).
- ▶ Open fixed leaf by 90° and hold fixed (2.).
- ▶ Open the moving leaf by 90° (3.).
- ▶ Let the moving leaf close (4.).
The door should stop at an opening angle of >35°.
- ▶ Now close the fixed leaf (5.). **The lock is released and the moving leaf closes.**
- ▶ Fit the cover panel (6.).

7 Maintenance, servicing, repairs

The installing company must alert the operator of the system to this part of the mounting instructions and hand it over to the operator together with the user information (instruction leaflet for door closer).

Regular servicing has to be carried out (see "GEZE user information for door closer"). It is to be carried out by a qualified specialist company.

Any repairs are to be carried out by GEZE or qualified personnel authorised by GEZE.