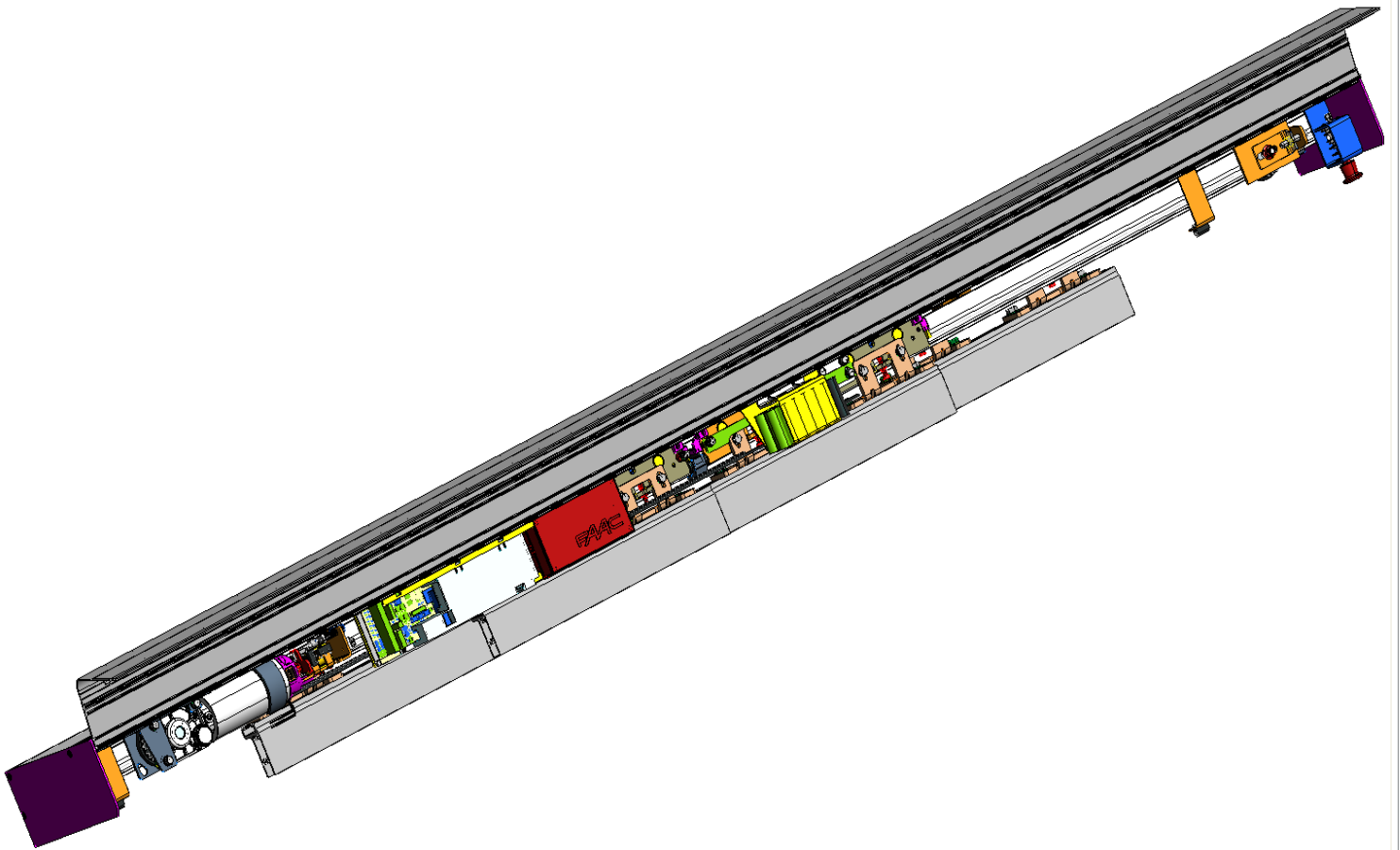


A140 AIR-T



EN16005

FAAC

EC DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINE

The undersigned, representing the following manufacturer :

Manufacturer : FAAC S.p.A.

Address : Via Calari ,10 - 40069 Zola Predosa BOLOGNA - ITALIA

herewith declares that to the partly completed machinery :

Description : Linear sliding door to 1 or 2 leaf

Model : A140 AIR - T

the essential requirements of the following EC directive (including all applicable amendments)

- 2006/42/EC Machinery Directive

have been applied and fulfilled, and that the relevant technical documentation is compiled in accordance with part B of Annex VII of the above mentioned Machinery Directive.

The above identified partly completed machinery is also in compliance with the all the relevant provisions of the following EC directive (including all applicable amendments)

- 2004/108/EC EMC Directive

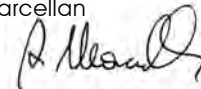
The following harmonized standards have been applied:

- EN 16005:2012
- EN 61000-6-2:2005
- EN 61000-6-3:2007

The above identified partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the above mentioned Machinery Directive 2006/42/EC.

Bologna, 23-07-2013

Managing Director
A. Marcellan



AUTOMATIC DOOR A140 AIR-T

ENGLISH

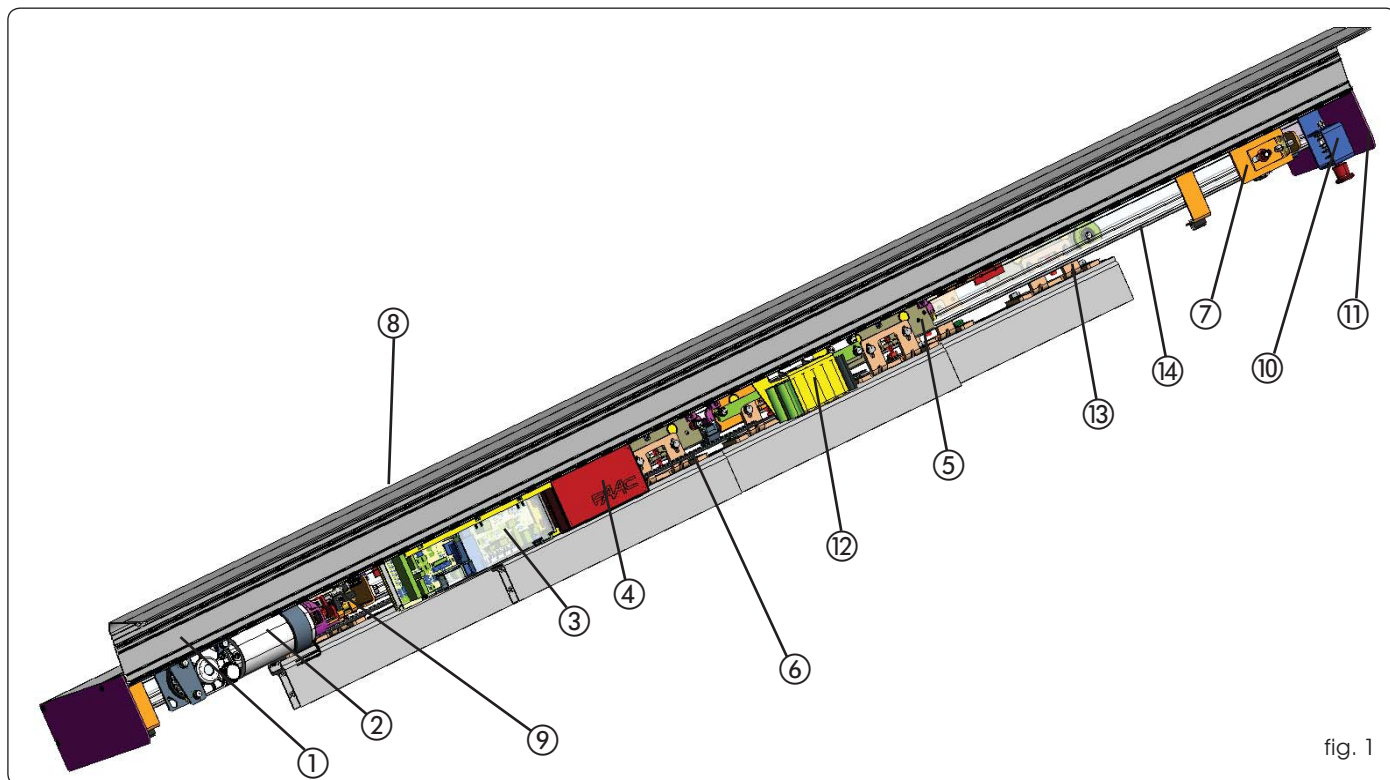


fig. 1

1 DESCRIPTION

The FAAC series A140 AIR-T systems automatically activate, manage and control the operation of single-leaf or two-leaf telescopic sliding doors.

The FAAC series A140 AIR automated systems are supplied completely assembled, wired and tested in the configuration requested by the customer, using the appropriate order form, or in kits to be assembled by the installation technician.

An automation cross beam (fig. 1) consists of the following parts:

Support profile (fig. 1 ref. ①)

This is the profile used when the cross beam can be completely secured to a load bearing structure.

Telescopic profile (fig. 1 ref. ⑭)

This profile is used to assemble the internal carriages

Motor unit (fig. 1 ref. ②)

The 24V= motor has an encoder and a leaf locking system (accessory).

The Electronics Module includes:

Control unit (fig. 1 ref. ③)

When powered, the control unit with microprocessor, initialises the door's operational parameters.

Power feed unit (fig. 1 ref. ④)

The power feed unit, directly connected to the control unit, supplies the voltage values required to correctly power the automated system.

Internal and external carriages supporting the leaf (fig. 1 ref.

⑤ ⑬)

The carriages have two wheels with ball bearings, one counter thrust wheel in the top part, and a screw based system for adjusting the height of the leaves.

Drive belt (fig. 1 ref. ⑥)

Transmission pulley unit (fig. 1 ref. ⑦)

1.1 ACCESSORIES SUPPLIED WITH THE CROSS BEAM

These parts are assembled on the cross beam.

Closing housings (fig. 1 ref. ⑧)

This is the aluminium profile enabling closure of the automated system. The side panels (fig. 1 ref. ⑪) completely close the system.

Motor lock unit (fig. 1 ref. ⑨)

The motor lock unit guarantees mechanical locking of the door while the leaves are closed. The motor lock unit can be used for single and double leaves.

The motor lock unit is supplied with the internal release device (Fig. 1 ref. ⑩) used for emergency opening if needed. It is also designed for installation of the external release (optional) if required. The motor lock unit acts directly on the motor, locking it mechanically.

Supervision of motor lock

It controls if the motor lock unit is operating correctly and verifies if the door is actually closed. If necessary, the system is designed for remotely activating an indicator light or buzzer/siren.

Emergency battery (fig. 1 ref. ⑫)

In the event of a mains power cut, the battery kit enables the automated system to operate until its charge is exhausted. The battery condition test is performed continuously by the control unit.

1.2 DOOR FRAME ACCESSORIES

To facilitate the door profile to adapt to the carriages and to enable correct finish of the installation, FAAC offers the following series of articles:

Pair of sliding blocks (fig. 26-27 ref. ①)

Supplied as a pair, they can be secured on a wall (or on the fixed leaf) or directly on the floor.

Lower guide profile (fig. 26-27 ref. ②)

For adapting the lower profile of the leaf to the above sliding blocks.

Brush for lower guide profile (fig. 26-27 ref. ③)

Completes the on-floor guide system.

Leaf fitting profile (fig.15)

Adapts the leaf's top profile to the carriage fittings.

Pair of lower sliding blocks for glass panel leaf

They enable the glass leaves to slide

2 ELECTRICAL PREPARATIONS

Route the electrical cables for connecting the accessories and electrical power supply as shown in Fig. 2.

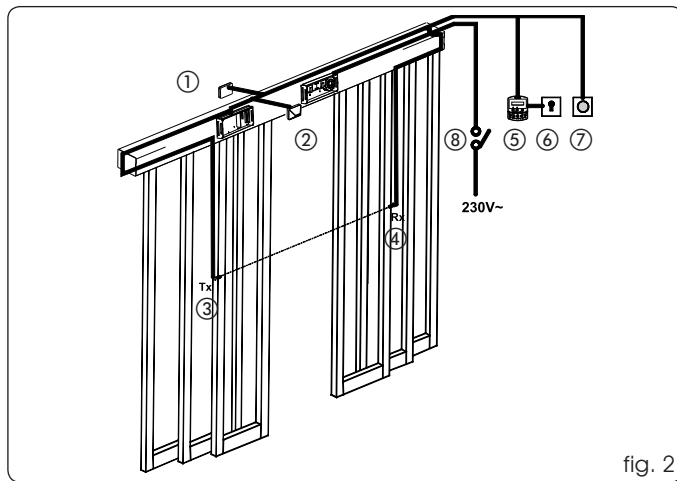


fig. 2

N°	DESCRIPTION	CABLES
①	External radar	4x0.25mm ²
②	Internal radar	4x0.25mm ²
③	Photocell transmitter	2x0.25mm ²
④	Photocell receiver	3x0.25mm ²
⑤	SD-Keeper / SDK-Light	2x0.5mm ² max 50 m
⑥	Key operated switch for locking SD-Keeper / SDK-Light (future accessory)	2x0.5mm ²
⑦	Control push-buttons Emerg/Key/Reset	2x0.5mm ²
⑧	Power supply 115/230V~	2x1.5mm ² + earth

3 TECHNICAL SPECIFICATIONS

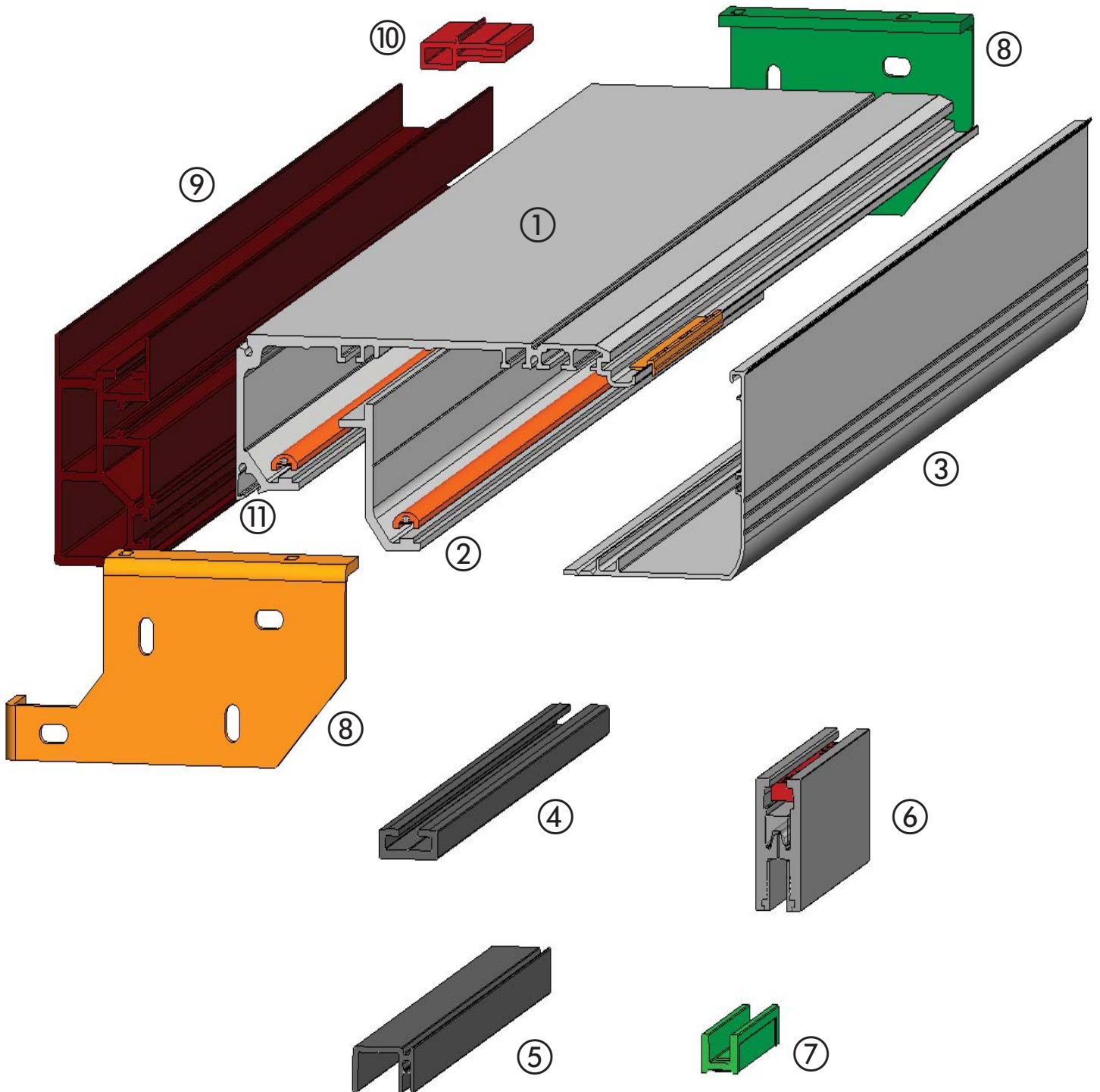
MODEL	A140 AIR-T2	A140 AIR-T4
No. of leaves	2	4
Max leaf weight	110+110 Kg	60+60+60+60 Kg
Transit space (VP)	1100 ÷ 3000 mm	1400 ÷ 4000 mm
Max thickness of framed leaf	65 mm	
Use frequency	100 %	
Protection class	IP 23 (for indoor use)	
Operating ambient temperature	-20°C ÷ +55°C	
Power supply	115V/230 V~ 50/60 Hz	
Max absorbed power	100 W	
Beam length	Vp x 1,5 +100 mm	
Drive unit	24 Vdc with encoder	
Opening speed adjustment (load free)	5 ÷ 70 cm/sec.	10 ÷ 140 cm/sec.
Closing speed adjustment (load free)	5 ÷ 70 cm/sec.	10 ÷ 140 cm/sec.
Partial opening adjustment	10% ÷ 90% of total opening	
Pause time adjustment	0 ÷ 30 sec.	
Night pause time adjustment	0 ÷ 240 sec.	
Static force adjustment	automatic	
Anti-crushing device active	at opening/closing	
Failsafe on photocells	Yes (can be activated by programming)	

4 CROSS BEAM CONFIGURATION

To suitably position the cross beam components, refer to the dimensions in figures 4, 5, and 7.

TELESCOPIC PROFILE KEY

ENGLISH



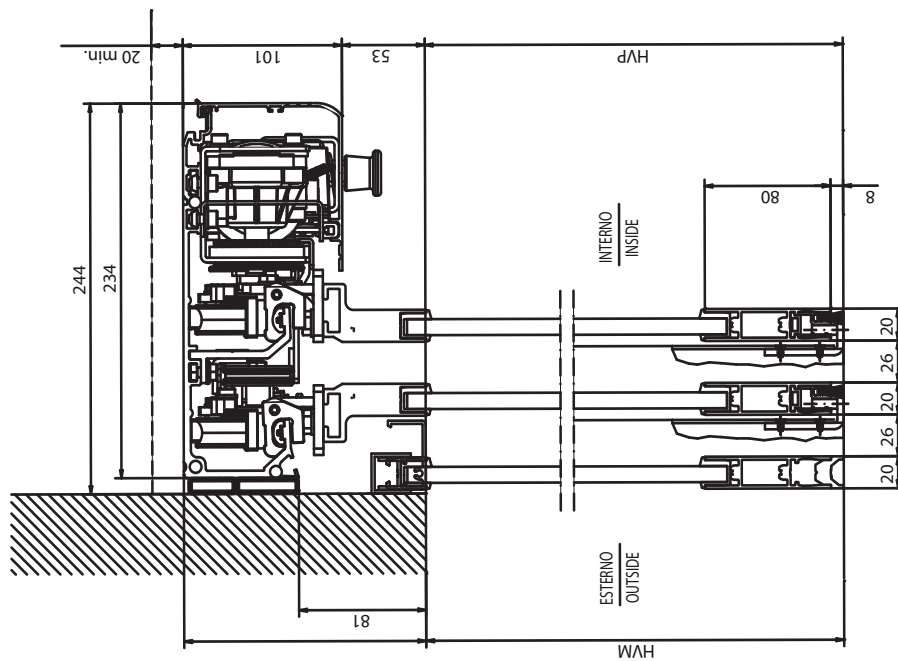
- ① SUPPORT PROFILE
- ② TELESCOPIC PROFILE
- ③ HOUSING PROFILE
- ④ LEAF FITTING PROFILE
- ⑤ LOWER GUIDE PROFILE
- ⑥ GRIPPER FOR GLASS LEAF
- ⑦ LOWER SLIDING BLOCK FOR GLASS LEAF

- ⑧ FREE-STANDING PLATE
- ⑨ FREE-STANDING PROFILE
- ⑩ TRANSOM PROFILE
- ⑪ CABLE ROUTING COMPARTMENT

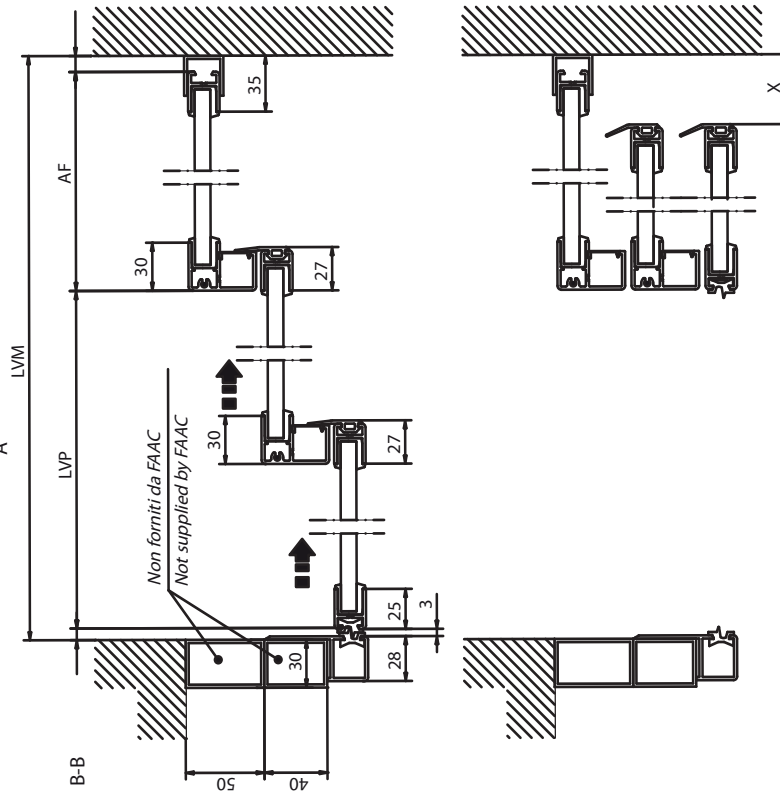
fig. 3

FAAC A140 AIRT

Sezione A-A



Sezione B-B



LVM = larghezza vano muro
wall width
min 1750 / max 4600 mm.*
LVM = $3LVP/2 + 33,5 + X$

HVM = altezza vano muro
wall height
max 2500 mm.*

LVP = larghezza vano passaggio
free passage width
min 1100 / max 3000 mm.**
LVP = $2(LVM - 33,5 - X)/3$

HVP = altezza vano passaggio
free passage height
HVP = HVM

X = distanza di sicurezza
distance to avoid finger trap
min 60 mm.

LC = lunghezza carter
carter length

* per LVM > 4600 o HVM > 2500 mm.
contattare FAAC
with LVM > 4600 or HVM > 2500 mm.
contact FAAC

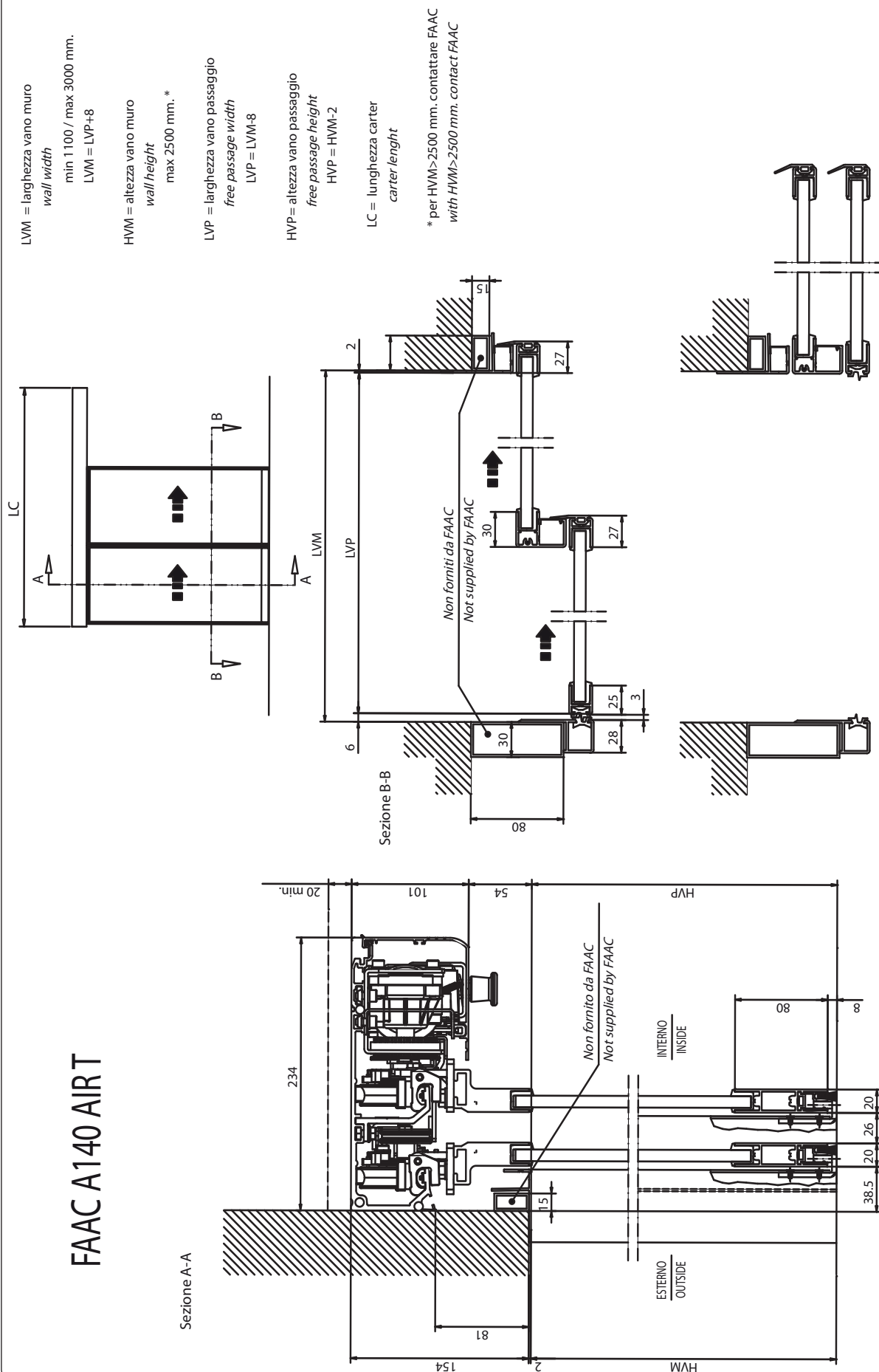
** consigliata
suggested

OGGETTO: TK20		DIS. N°: 05
CODICE KIT PROFILI:		C
		B
		A
		REV.
		DATA



Via Benini 1, Zola Predosa, Bologna, Italy
Tel: 051-6172411 Fax: 051-758518
FAAC S.p.A. si riserva il diritto di apportare modifiche al presente disegno senza alcun preavviso.

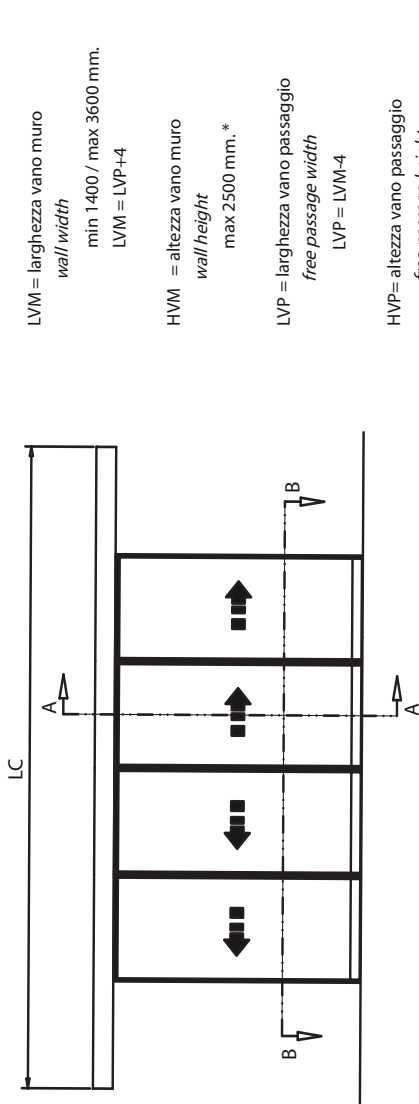
FAAC A140 AIRT



OGGETTO : TK20		DIS. N° : 06
CODICE KIT PROFILI :		C
		B
		A
		REV.
		DATA

FAAC
Via Benini 1, Zola Predosa, Bologna, Italy
Tel: 051-6172411 Fax: 051-758518
FAAC S.p.A. si riserva il diritto di apportare modifiche al presente disegno senza alcun preavviso.

FAAC A140 AIR T



LVM = larghezza vano muro
wall width
min 1400 / max 3600 mm.
LVM = LVP+4

HVM = altezza vano muro
wall height
max 2500 mm.*

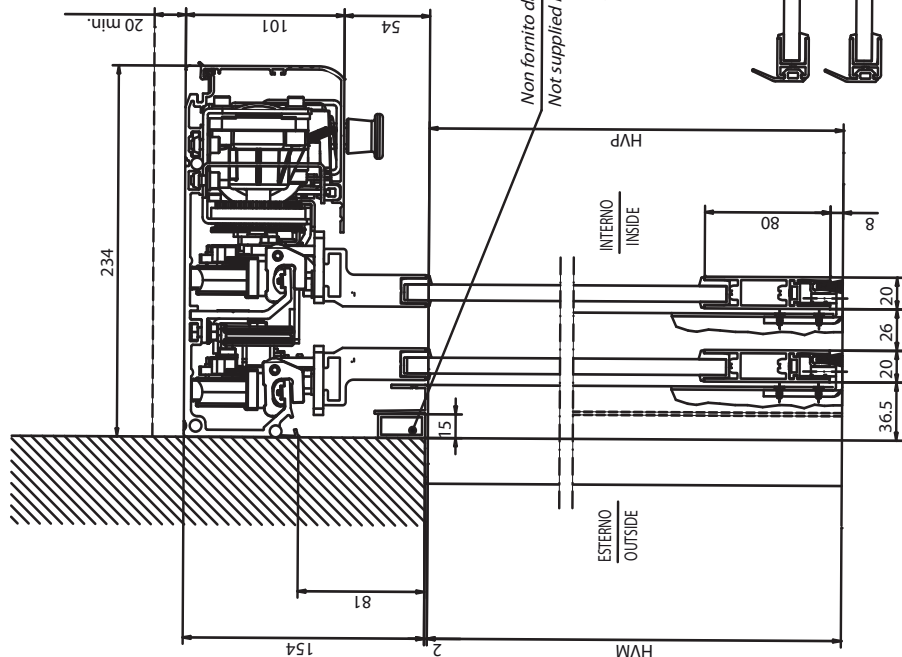
LVP = larghezza vano passaggio
free passage width
LVP = LVM-4

HVP = altezza vano passaggio
free passage height
HVP = HVM-2

LC = lunghezza carter
carter length

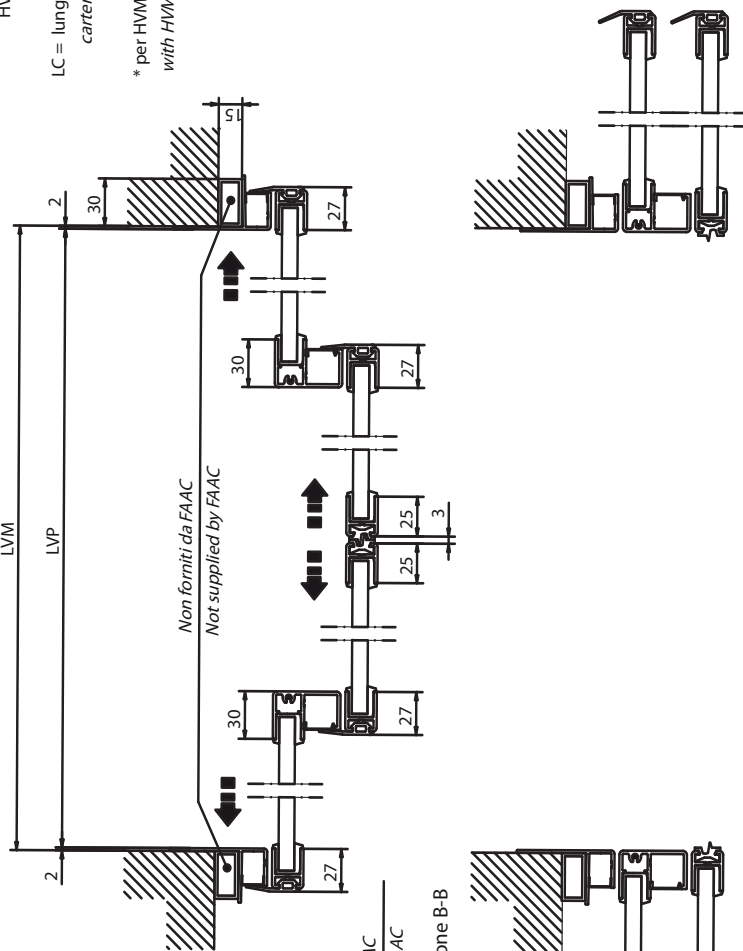
* per HVM > 2500 mm. contattare FAAC
with HVM > 2500 mm. contact FAAC

Sezione A-A



Non fornito da FAAC
Not supplied by FAAC

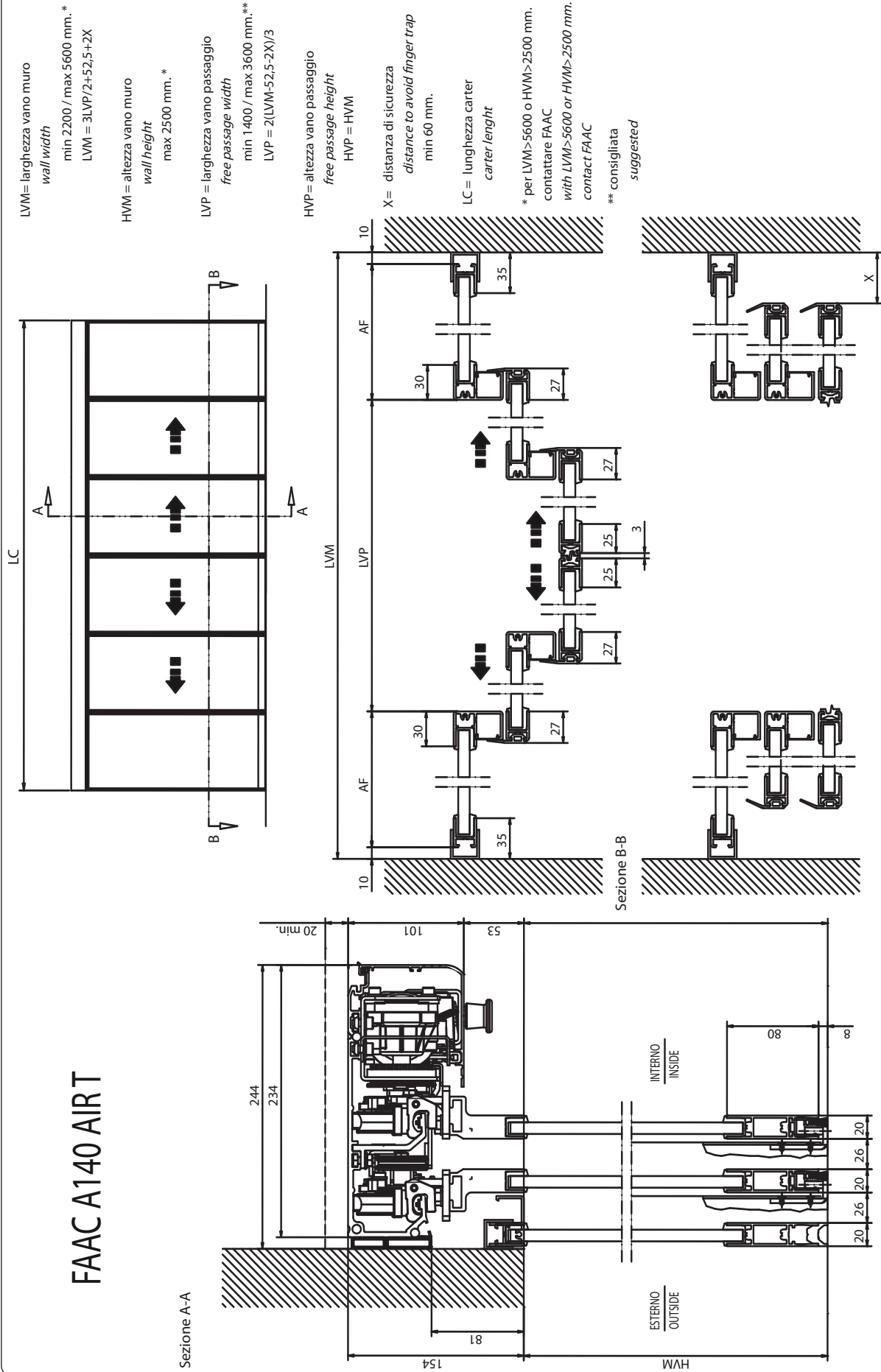
Sezione B-B



Non forniti da FAAC
Not supplied by FAAC

OGGETTO: TK20		DIS. N°: 07	
		C	REV.
 Via Benini 1, Zola Predosa, Bologna, Italy Tel: 051-6172411 Fax: 051-758518 FAAC S.p.A. si riserva il diritto di apportare modifiche al presente disegno senza alcun preavviso.		CODICE KIT PROFILI:	
		DATA	

FAAC A140 AIRT



DIS. N°: 08	
C	
B	
A	
REV.	DATA

OGGETTO: TK20

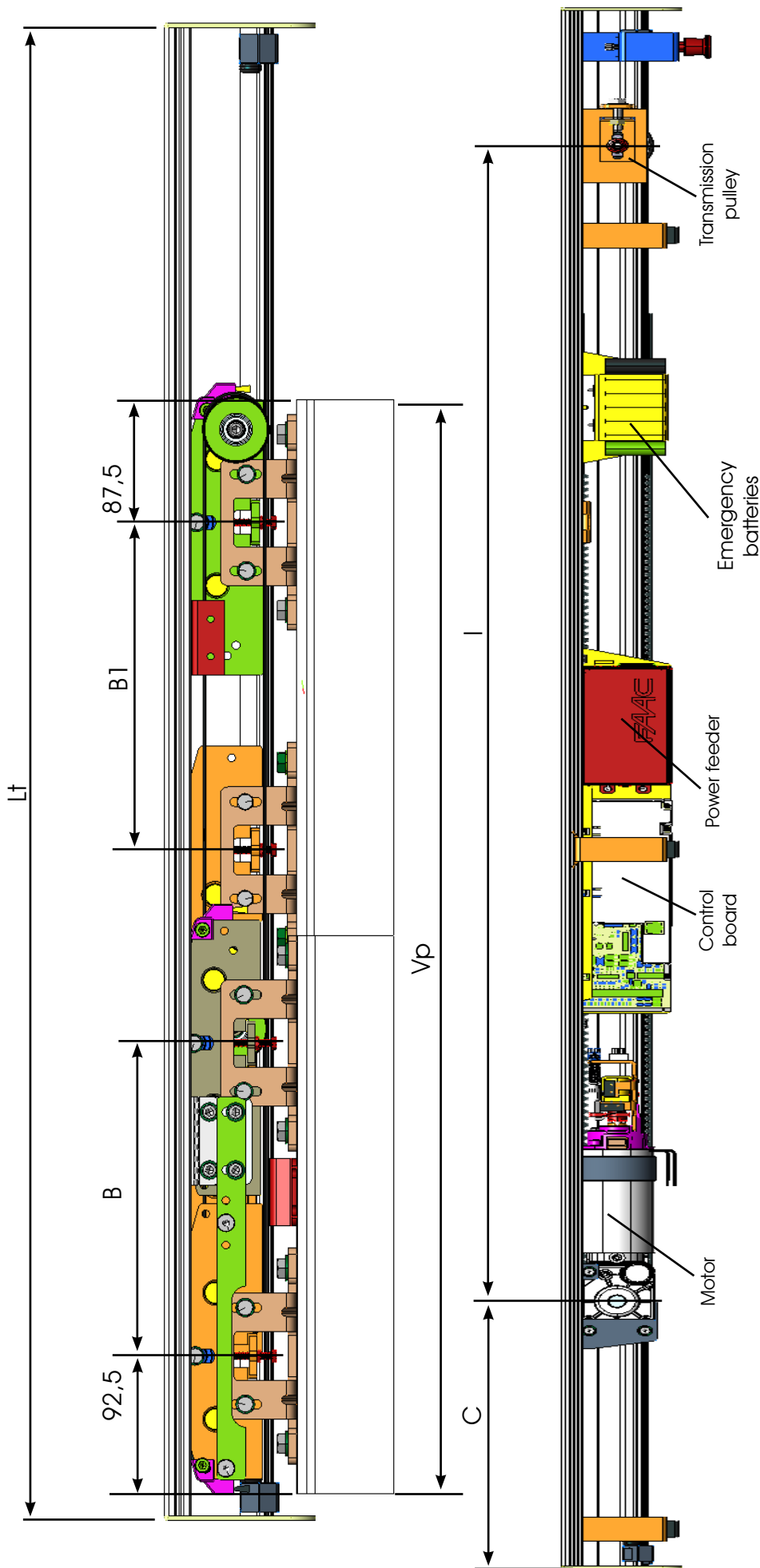
CODICE KIT PROFILI:

FAAC

Via Benini 1, Zola Predosa, Bologna, Italy
Tel.: 051-6172411 Fax: 051-758518

FAAC S.p.A. si riserva il diritto di apportare modifiche al presente disegno senza alcun preavviso.

A140 AIR Telescopic Single-Leaf, RH Opening



Lt = Vp X 1,5 + 100

- B = Securing distance of internal carriages on sliding leaf
- B1 = Securing distance of the external carriages on sliding leaf
- C = Motor position dimension
- D = Length of transmission belt
- I = Motor / transmission unit between centres distance
- LC = length steel Cable
- Lt = Length of cross beam
- Vp = Free passage width
- 100 = mm overlap between leaves

Vp	Lt	C	I	D	B	LC*	B1
1100	1750	170	1280	2740	380	1750	435
1200	1900	170	1380	2940	430	1850	485
1300	2050	170	1480	3140	480	1950	535
1400	2200	170	1580	3340	530	2050	585
1500	2350	170	1680	3540	580	2150	635
1600	2500	170	1780	3740	630	2250	685
1700	2650	170	1880	3940	680	2350	735

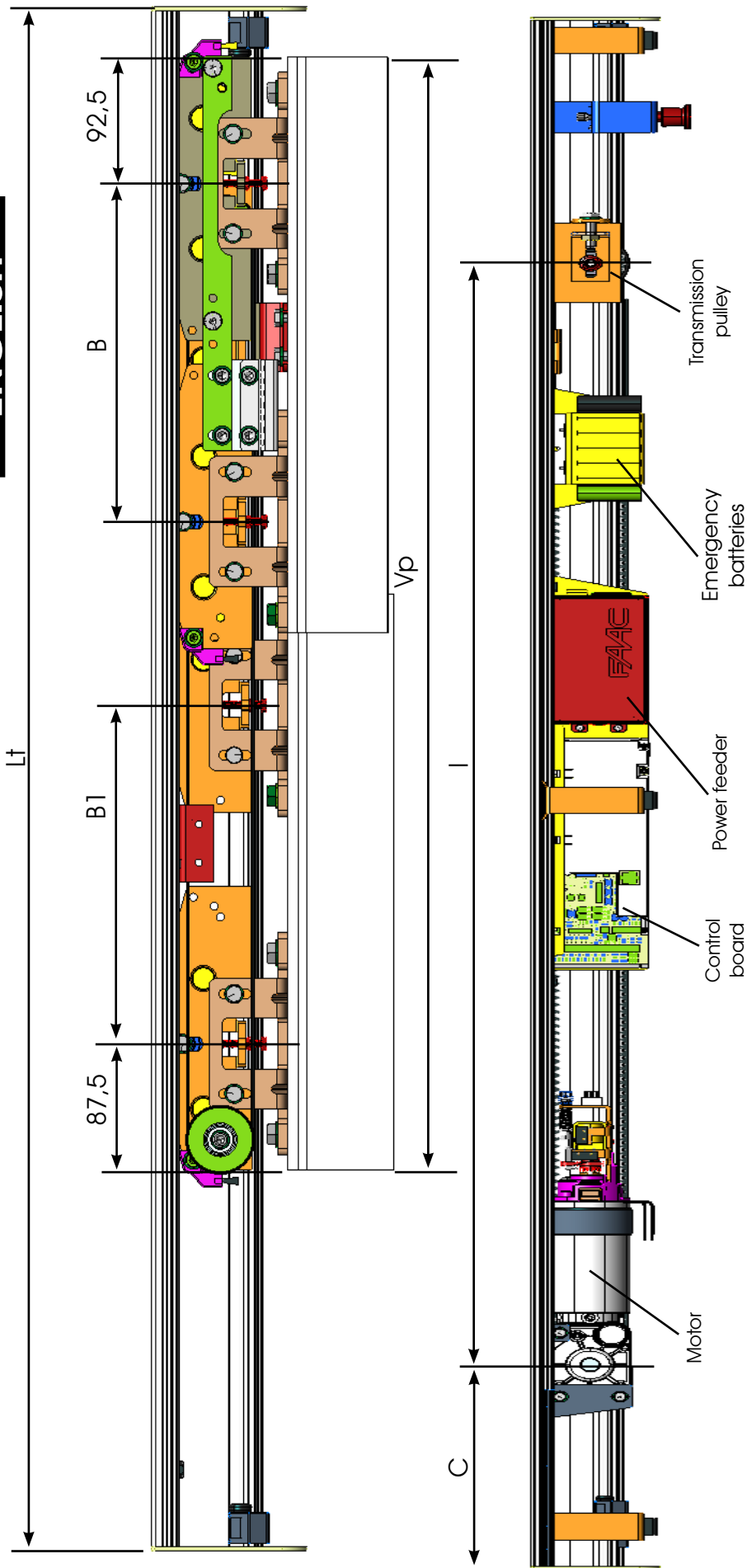
Vp	Lt	C	I	D	B	LC*	B1
1800	2800	170	1980	4140	730	2450	785
1900	2950	170	2080	4340	780	2550	835
2000	3100	170	2180	4540	830	2650	885
2200	3400	170	2380	4940	930	2850	985
2400	3700	170	2580	5340	1030	3050	1085
2600	4000	170	2780	5740	1130	3250	1185
2800	4300	170	2980	6140	1230	3450	1285
3000	4600	170	3180	6540	1330	3650	1385

⚠ Attention: Bear in mind that the length of the steel cable in the table is indicative and subject to change.

fig. 4

A140 AIR Telescopic Single-Leaf, LH Opening

ENGLISH



Lt = Vp X 1,5 + 100

- B = Securing distance of internal carriages on sliding leaf
- B1 = Securing distance of the external carriages on sliding leaf
- C = Motor position dimension
- D = Length of transmission belt
- I = Motor / transmission unit between centres distance
- LC = length steel Cable
- Lt = Length of cross beam
- Vp = Free passage width
- 100 = mm overlap between leaves

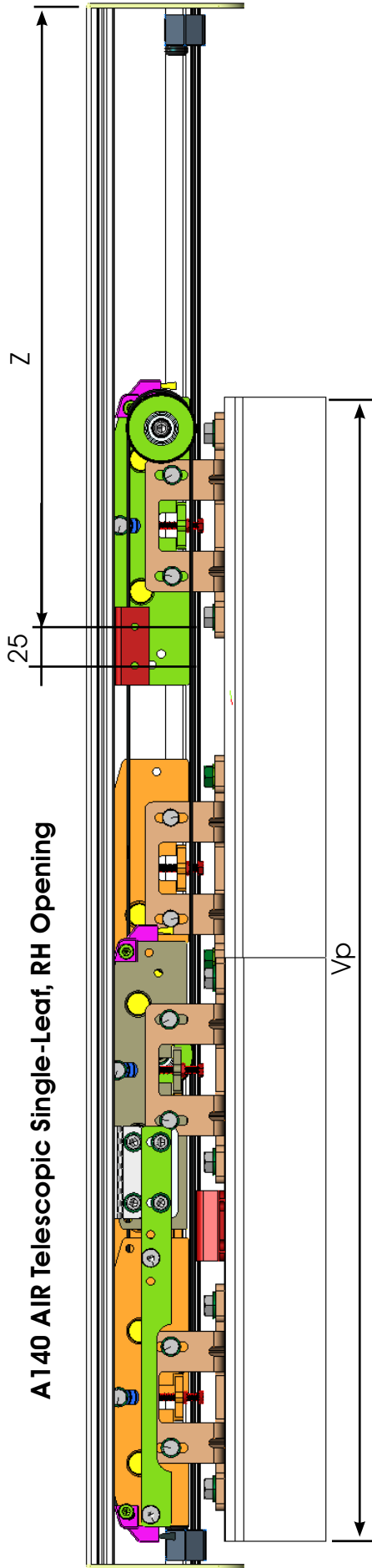
Vp	Lt	C	I	D	B	LC*	B1
1100	1750	340	1280	2740	380	1750	435
1200	1900	380	1380	2940	430	1890	485
1300	2050	420	1480	3140	480	1990	535
1400	2200	460	1580	3340	530	2090	585
1500	2350	500	1680	3540	580	2190	635
1600	2500	540	1780	3740	630	2290	685
1700	2650	580	1880	3940	680	2390	735

Vp	Lt	C	I	D	B	LC*	B1
1800	2800	620	1980	4140	730	2490	785
1900	2950	660	2080	4340	780	2590	835
2000	3100	700	2180	4540	830	2690	885
2200	3400	740	2380	4940	930	2890	985
2400	3700	780	2580	5340	1030	3090	1085
2600	4000	820	2780	5740	1130	3290	1185
2800	4300	860	2980	6140	1230	3490	1285
3000	4600	900	3180	6540	1330	3690	1385

⚠ Attention: Bear in mind that the length of the steel cable in the table is indicative and subject to change.

Telescopic profile drilling template

A140 AIR Telescopic Single-Leaf, RH and LH Opening



A140 AIR Telescopic Single-Leaf, LH Opening

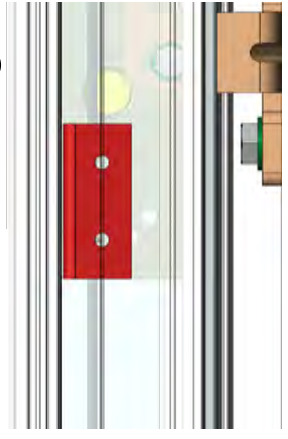
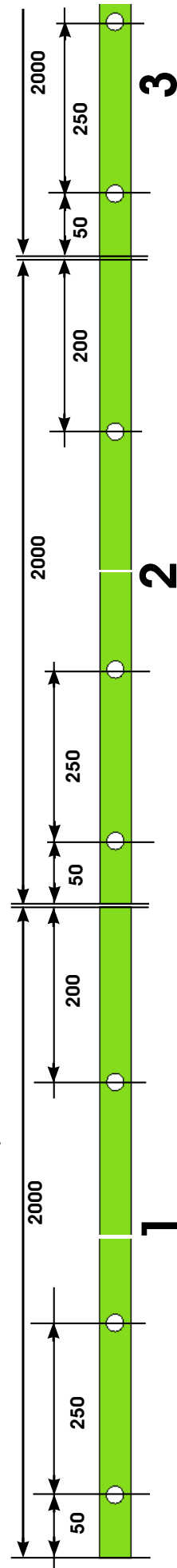
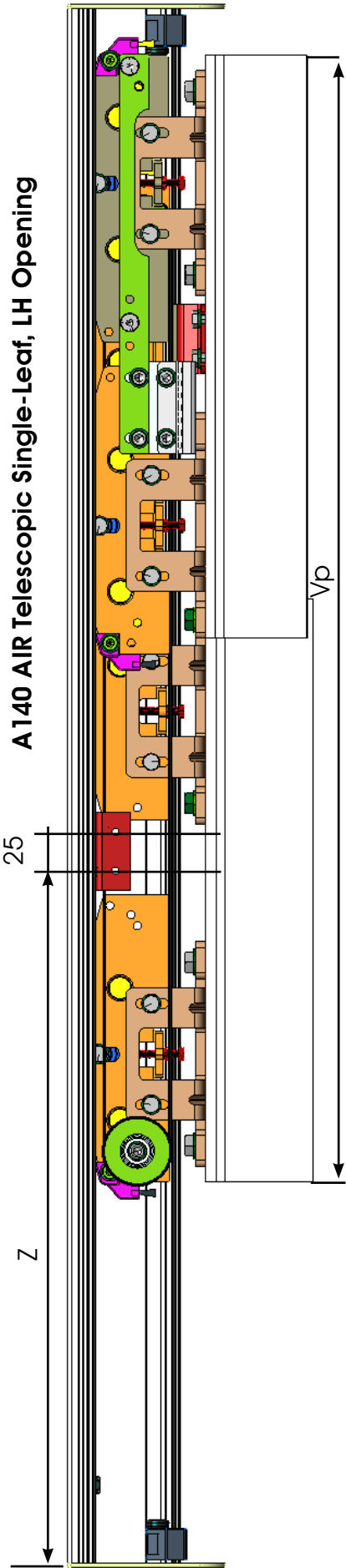
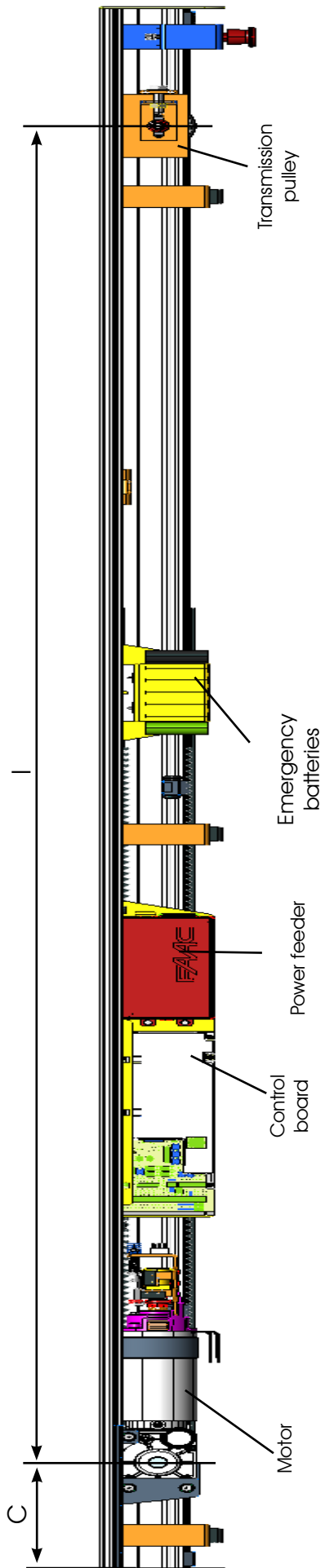
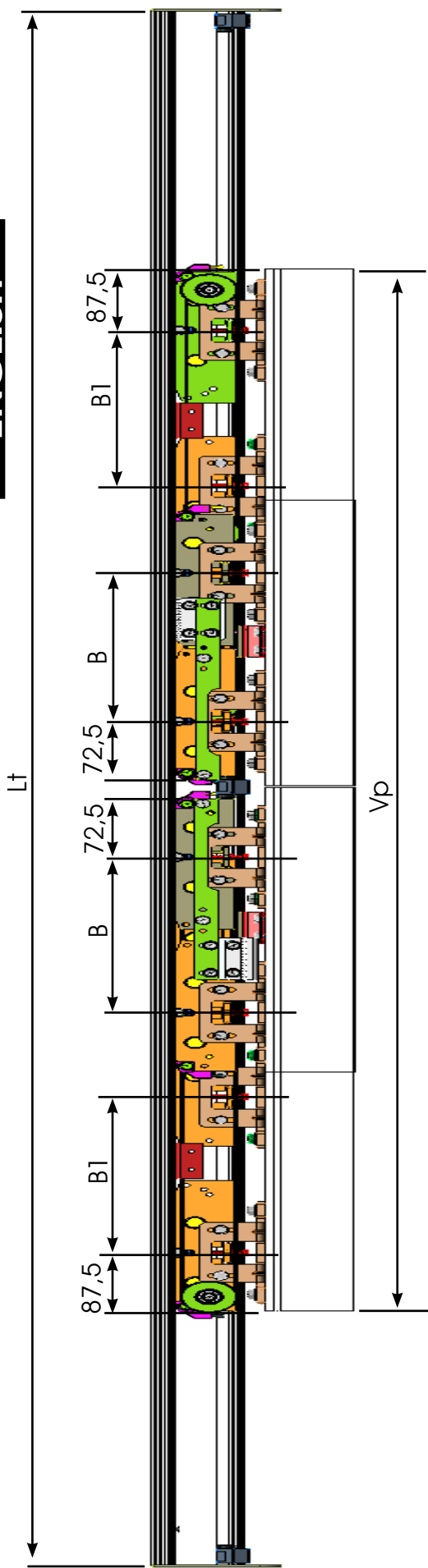


TABLE A

Vp	Lt	Z	Vp	Lt	Z	Vp	Lt	Z
1100	1750	750	1500	2350	950	1900	2950	1150
1200	1900	800	1600	2500	1000	2000	3100	1200
1300	2050	850	1700	2650	1050	2200	3400	1300
1400	2200	900	1800	2800	1100	2400	3700	1400

fig.6



Lt = Vp X 1,5 + 100

- B = Securing distance of internal carriages on sliding leaf
- B1 = Securing distance of the external carriages on sliding leaf
- C = Motor position dimension
- D = Length of transmission belt
- I = Motor / transmission unit between centres distance
- LC = length steel Cable
- Lt = Length of cross beam
- Vp = Free passage width
- 100 = mm overlap between leaves

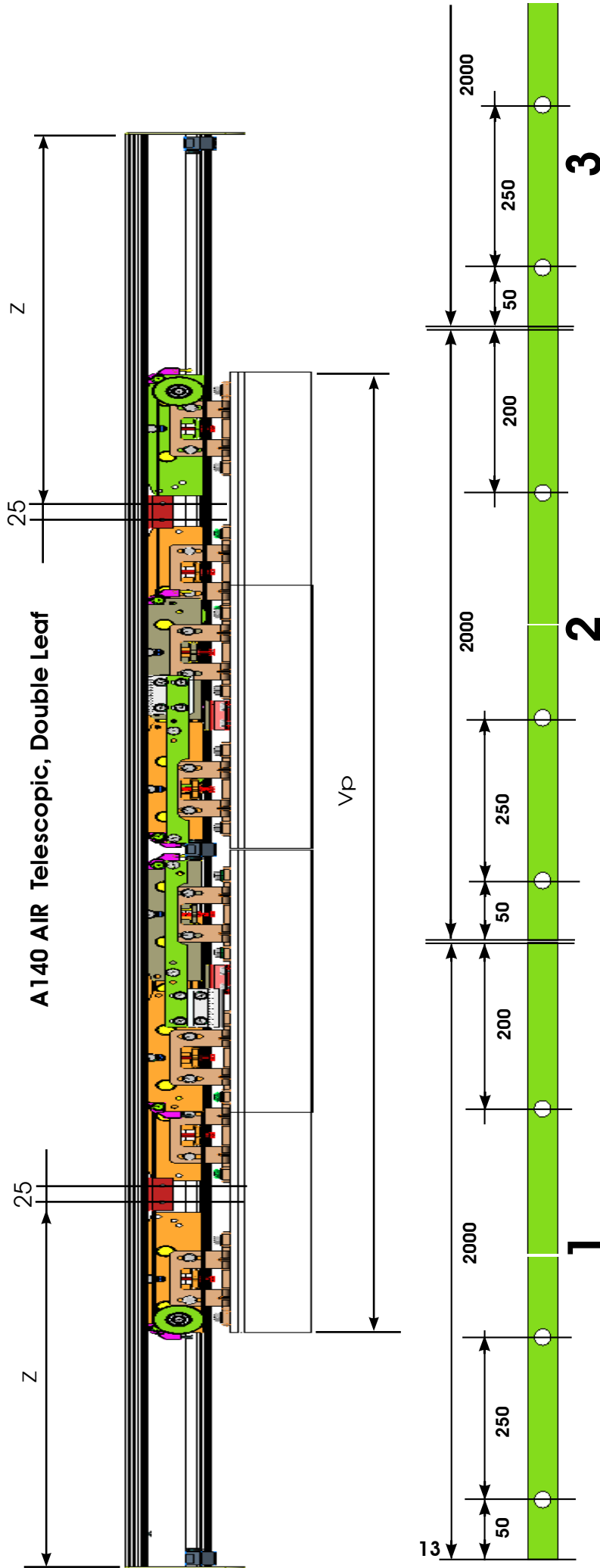
Vp	Lt	C	I	D	B	LC	B1
2600	4000	370	3450	7080	505	*	520
2800	4300	410	3700	7580	555	*	570
3000	4600	450	3950	8080	605	*	620
3200	4900	490	4200	8580	655	*	670
3400	5200	530	4450	9080	705	*	720
3600	5500	570	4700	9650	755	*	770
3800	5800	610	4950	10080	805	*	820
4000	6100	650	5200	10580	855	*	870

Vp	Lt	C	I	D	B	LC	B1
1400	2200	130	1950	4080	205	*	220
1500	2350	150	2075	4330	230	*	245
1600	2500	170	2200	4580	255	*	270
1700	2650	190	2325	4830	280	*	295
1800	2800	210	2450	5080	305	*	320
1900	2950	230	2575	5330	330	*	345
2000	3100	250	2700	5580	355	*	370
2200	3400	290	2950	6080	405	*	420
2400	3700	330	3200	6580	455	*	470

⚠ Attention: Bear in mind that the length of the steel cable in the table is indicative and subject to change.

fig. 7

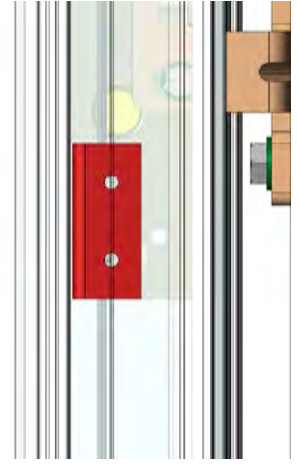
A140 AIR Telescopic, Double Leaf
Telescopic profile drilling template
Cutting the telescopic profile securing bar



Vp	Lt	Z
2600	4000	825
2800	4300	875
3000	4600	925
3200	4900	975
3400	5200	1025
3600	5500	1075
3800	5800	1125
4000	6100	1175

Vp	Lt	Z
1400	2200	525
1500	2350	550
1600	2500	575
1700	2650	600
1800	2800	625
1900	2950	650
2000	3100	675
2200	3400	725
2400	3700	775

TABLE B



A. ASSEMBLY OF IN-KIT AUTOMATED SYSTEMS

This section describes the assembly of the in-kit automated systems. After you have prepared the necessary profiles, we advise you to assemble and install at the same time.

 **Automation free-standing refer to Chapter 21**

1A PREPARING THE SUPPORT PROFILE

Support profiles are available in two sizes:

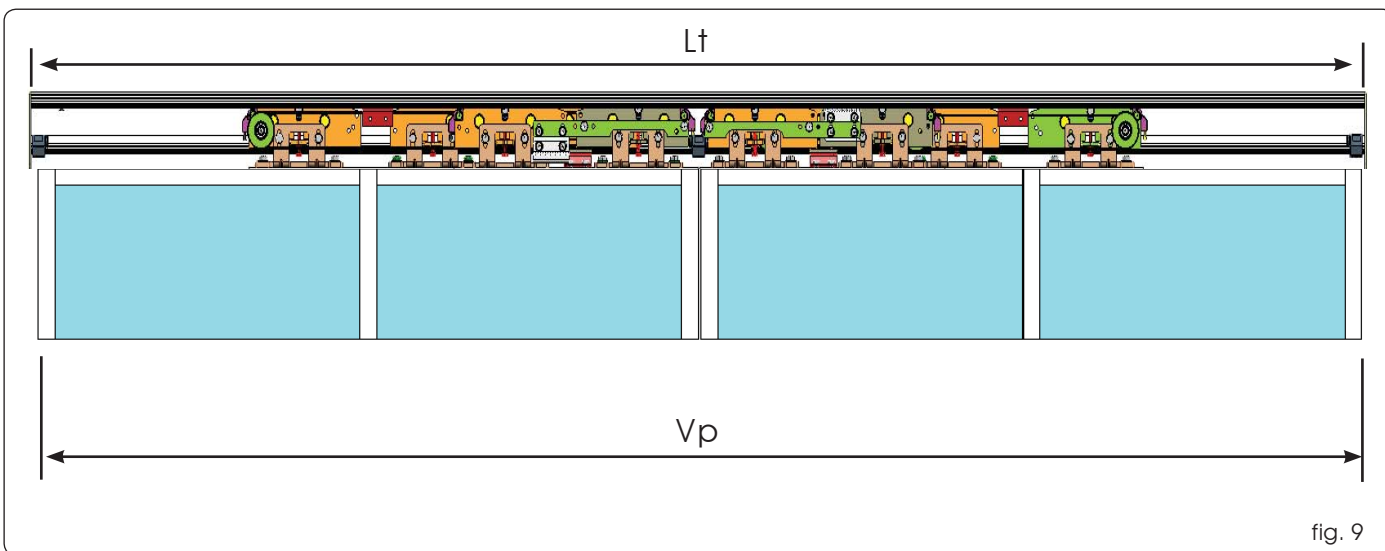
6100 mm.

Cut the support profile to measure using the following formula:

$$L_t = V_p \times 1,5 + 100$$

Where:


- **L_t** is the length of the support profile
- **V_p** is the transit space
- **100** are the overlap millimeters between the leaves .



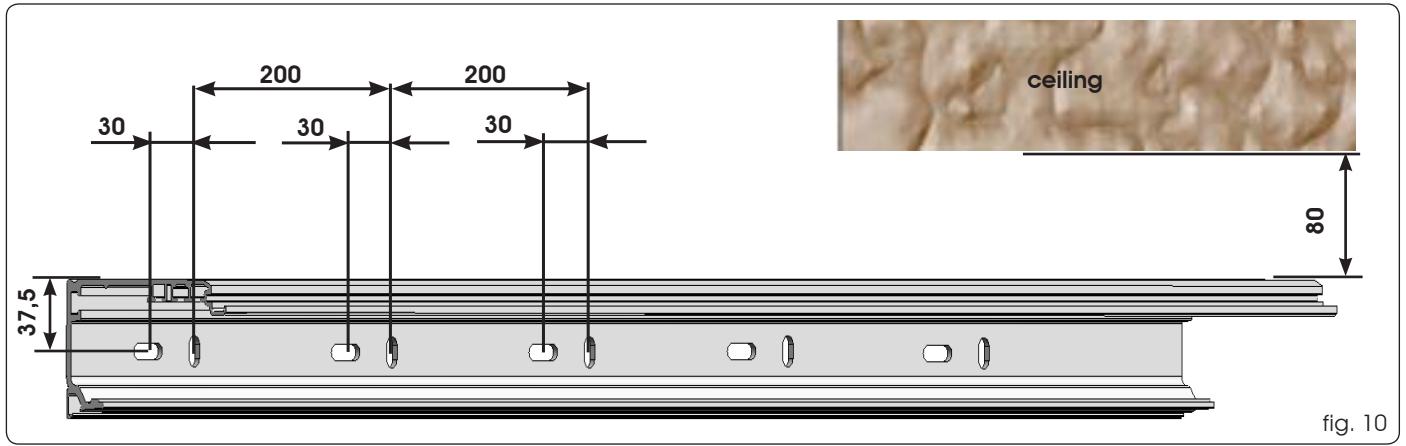
1.1A SUPPORT PROFILE - SECURING ON WALL

Define the exact height position of the support profile, considering the dimensions

 **The cross beam must be fastened parallel to the floor**

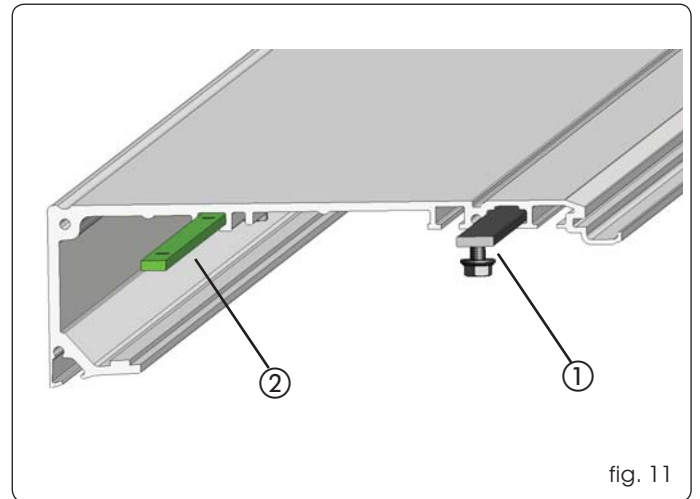
 **The distance between the top of the support profile and the ceiling must be 80mm. Rif.Fig.10**

Initially fix the support profile on a vertical slot at one end, and on a horizontal slot at the other end (using M8 screws and appropriate expansion plugs which are not supplied) and level parallel to the floor. Fasten centrally, lifting the support profile with force to align the three securing points. Carry out the remaining fastenings.fig.10.



1.2A INSTALLING THE ELECTRONIC MODULE BAR AND THE TELESCOPIC PROFILE BAR

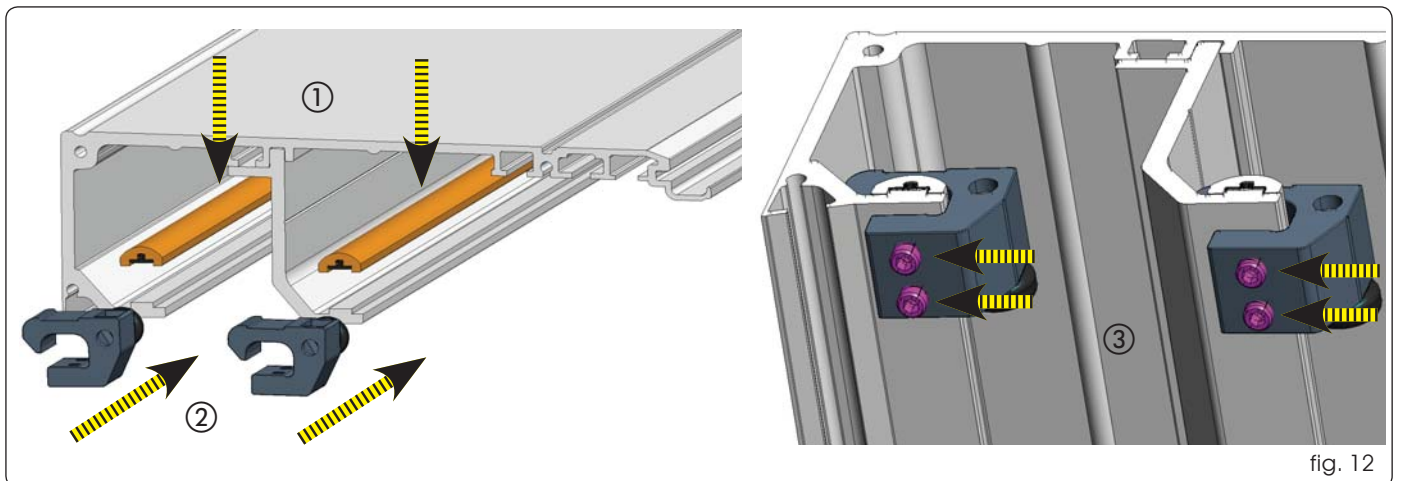
Warning: the bar with tie rods and the bar for telescopic profile must always be installed before installing the head profile. Insert the bar sideways with the tied rods for installing the electronic module on the support profile fig.11-① and the bar for securing the telescopic profile fig.11-②. When cutting the bar for the telescopic profile, refer to fig.6 , fig.8 and section 2A1 pg.18. If the rod electronic module was not fitted, you can fit the small plates with the relevant screws instead of it



1.3A ASSEMBLING THE SLIDING GUIDE

Important : The central and side mechanical stops must be fitted sideways, after the sliding guide, as first element of the A140 AIR-T door.

The mechanical stops are 4 for single leaf and 8 for double leaf. Insert the sliding guide on the profile fig 12-① and insert sideways the mechanical stop fig 12-②. Then secure it with the 2 Allen screws fig.12 ③ and fig.13-③.



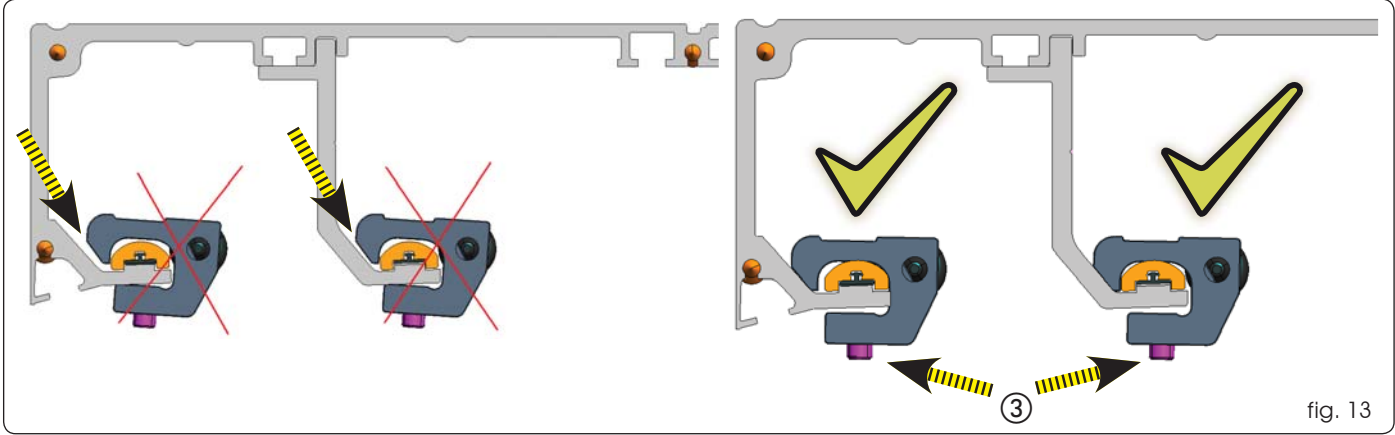


fig. 13

Important : place the side and central mechanical stops correctly, abutting with the profile, before blocking them (fig.13 ③).

To lock the 2 Allen screws of the side and central mechanical stops, use an Allen key M5(fig.14 and fig.15).

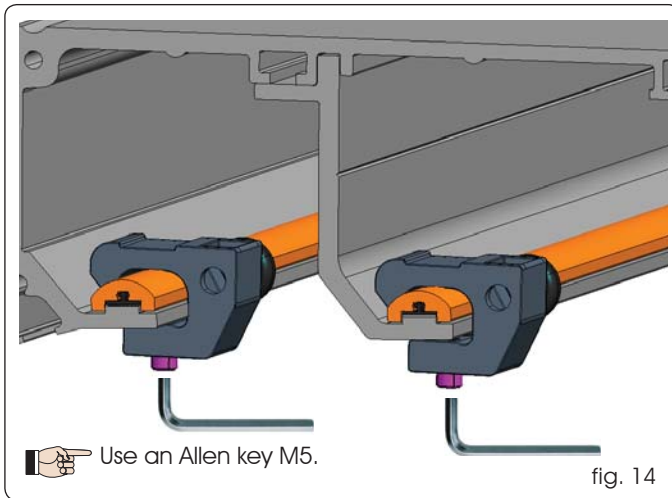


fig. 14

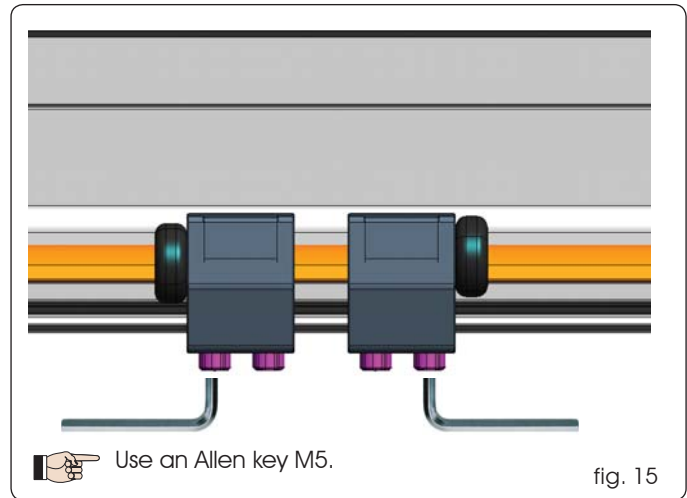


fig. 15

2A PREPARING THE LEAVES

Prepare the leaves as described below.

1. Secure to the leaf, the leaf fitting profile cut to the same length, and secure it with adequate screws on the upper part (fig. 16).
2. Cut the lower guide profile to the same length as the leaf and secure with adequate screws on the lower part.
3. If specified, insert the brush in the seat of the sliding profile Fig. 17 ref. ①.

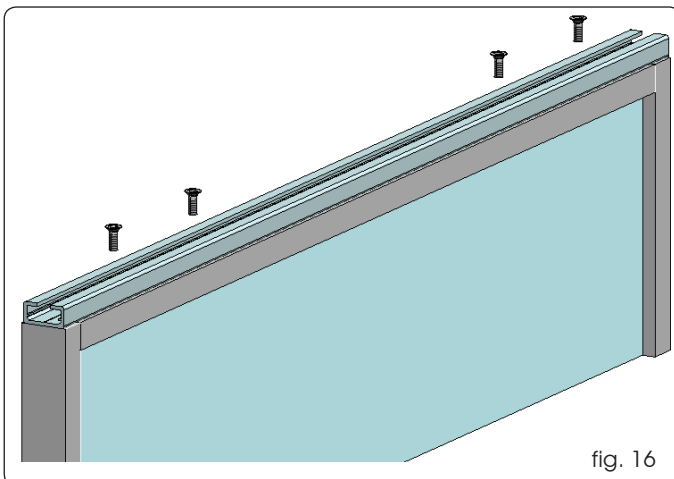


fig. 16

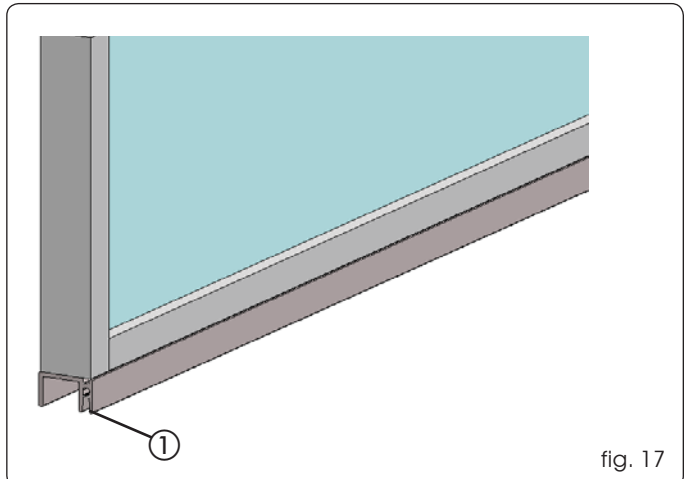


fig. 17

2A -1 PREPARING THE EXTERNAL CARRIAGES

Assemble the wheels for the steel cable on the external carriages .
The wheel in fig.18 ref. ① is fixed using the screw on the threaded hole of the carriage. The second wheel is fixed on the other long carriage using the screw and the nut on the slot fig.18 ref. ②.

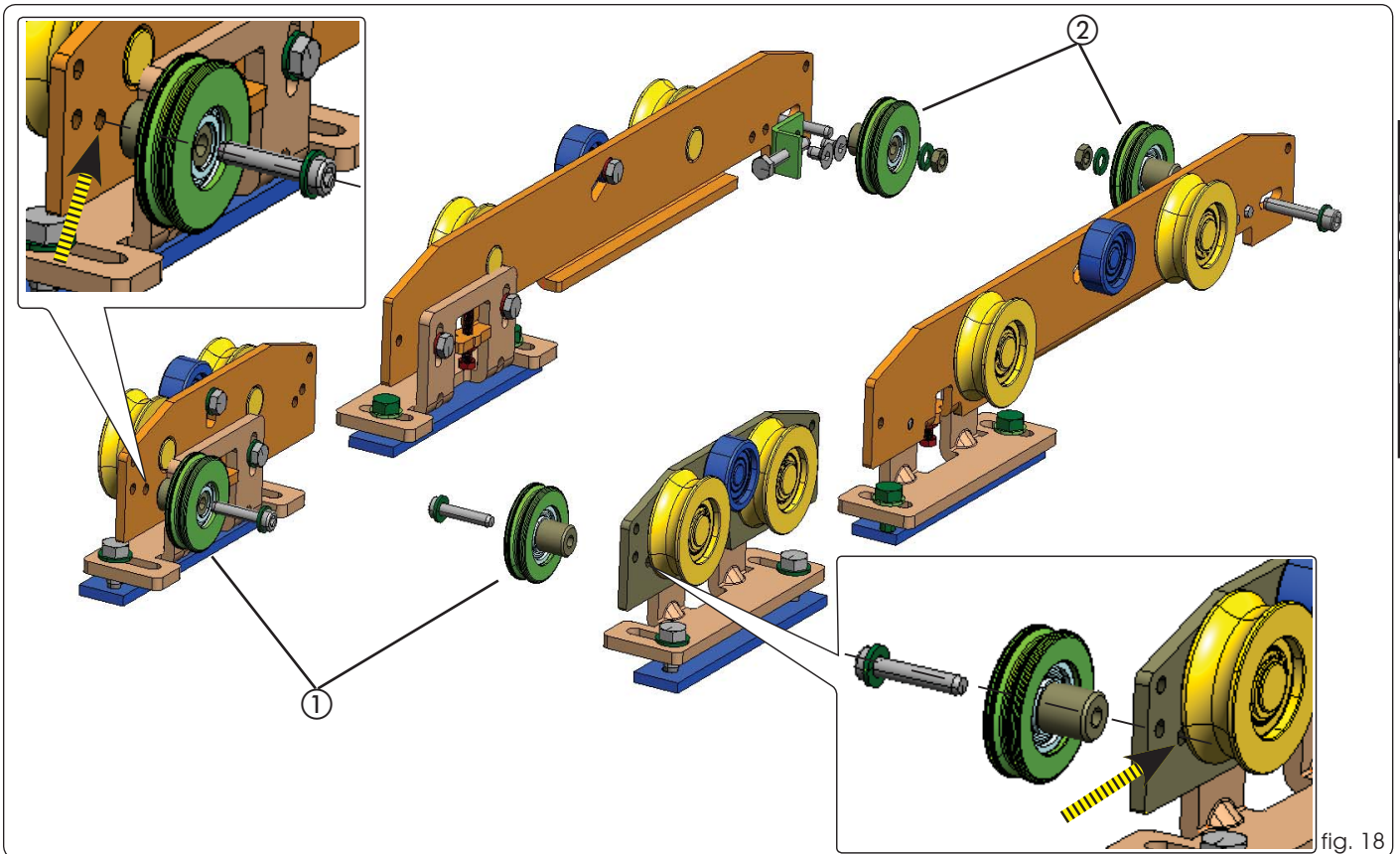


fig. 18

After having installed the steel cable on the 2 wheels fig.19 Ref.①, the 2 sections of the steel cable must be positioned under the plates, as shown in fig.19 ref.②, and secured using the 4 provided screws. Use lugs to close the 2 ends of the steel cable. The plates must be placed on top of the carriage unit, as shown in fig.19 Ref.②. You can adjust the tension using the slot and later lock the position using the screw that rests on the wheel shaft fig.19 ref.③ .

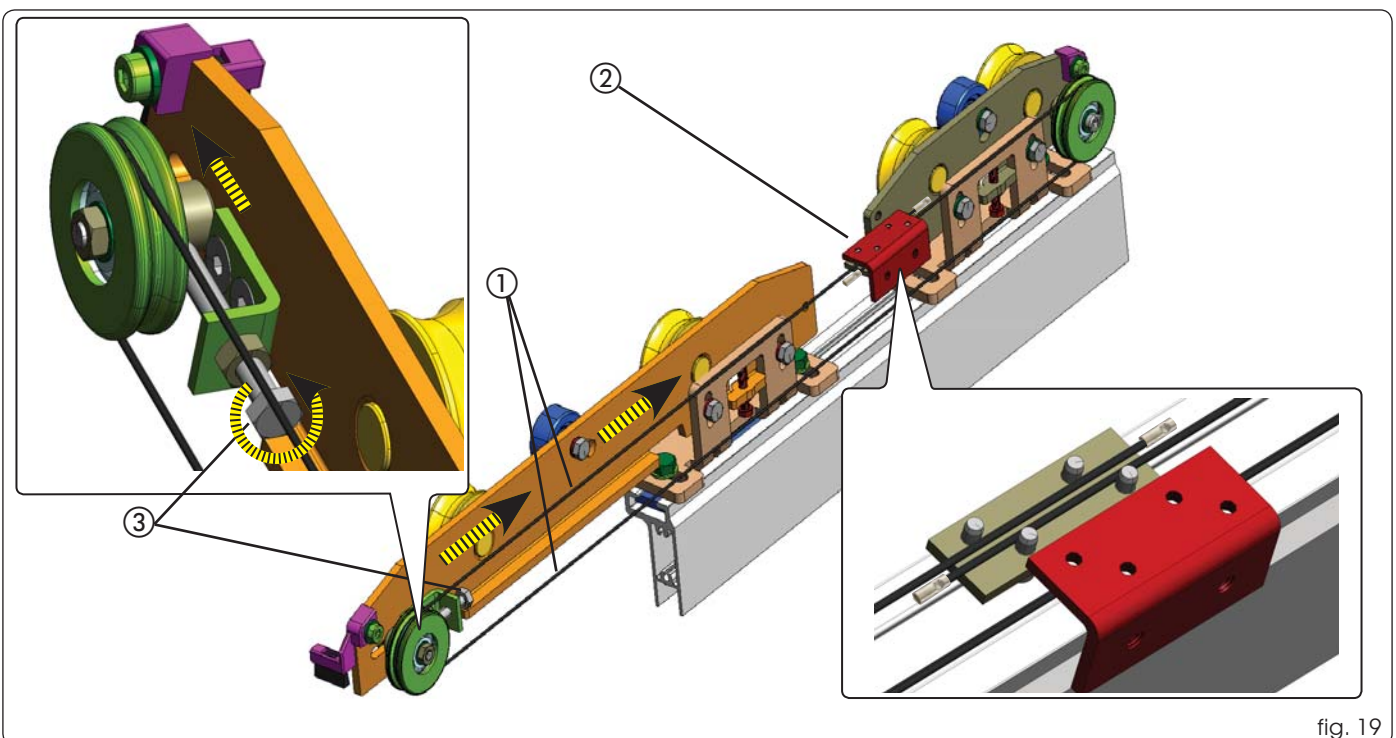


fig. 19

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next fit the external carriage unit fig.20 Ref. ① laterally.

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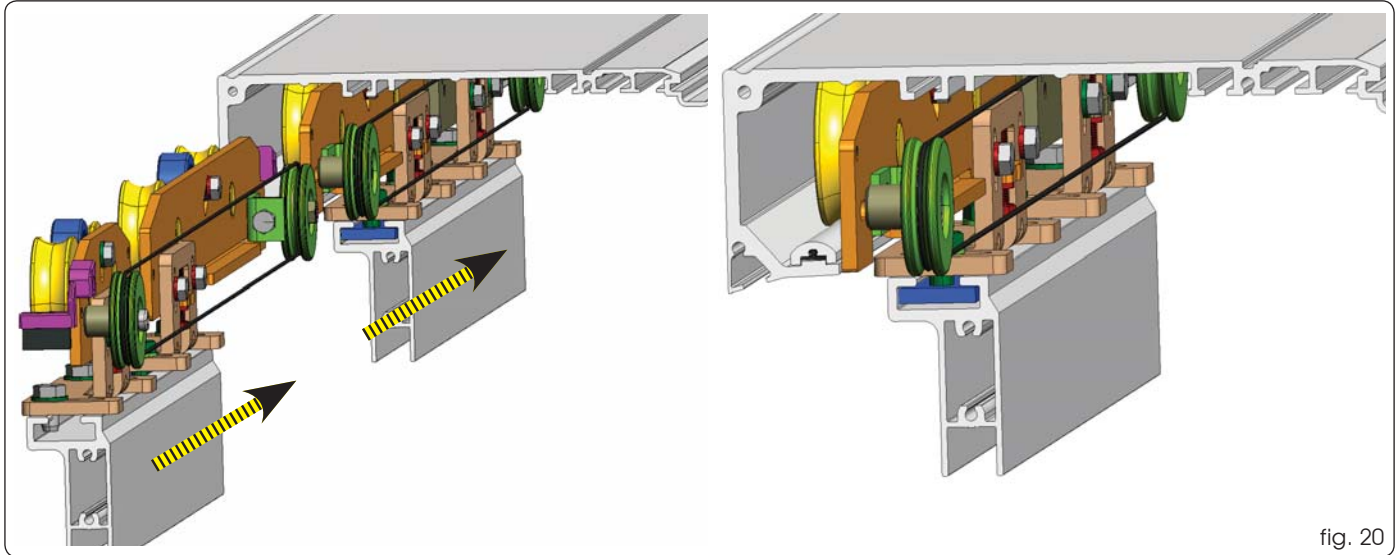


fig. 20

3 bars measuring 2 metres each will be provided, and will be aligned and cut to measure according to the head profile length LT. Refer to the tables in fig.6 and fig.8 for cutting the bar to measure.

Insert the 3 bars in the profile from the 200 mm side fig.21 Ref. ① The terminal will be 50 mm fig.21 Ref. ② Then position the bars correctly, place the telescopic profile up against the main profile and secure it using the hex head screws with washers fig.21 Ref. ③

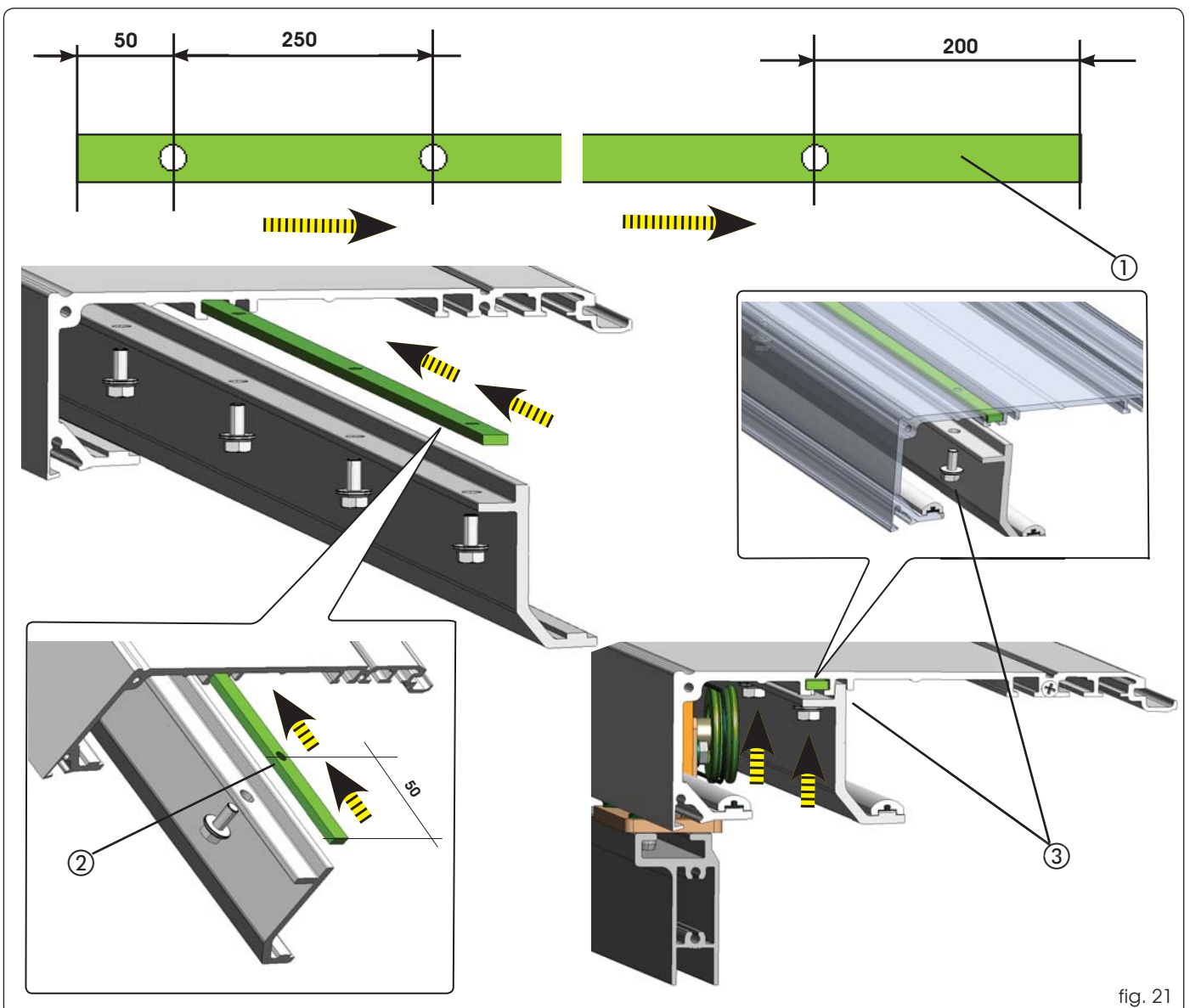


fig. 21

Refer to tables A or B for each right or left leaf to drill the 5 mm diameter holes on the outside of the telescopic profile, as shown in fig. fig.22 Ref. ④ d to secure the plate(s) of the steel cable.

Use the line on the telescopic profile fig.22 Ref. ② band corresponding template to keep the 2 plate holes aligned.

Open the external leaves completely until they come in contact with the external mechanical stops fig.22 Ref. ① .

Use the reference line on the telescopic profile fig.22 Ref. ② Then secure the plates using the provided screws fig.22 Ref. ③ .

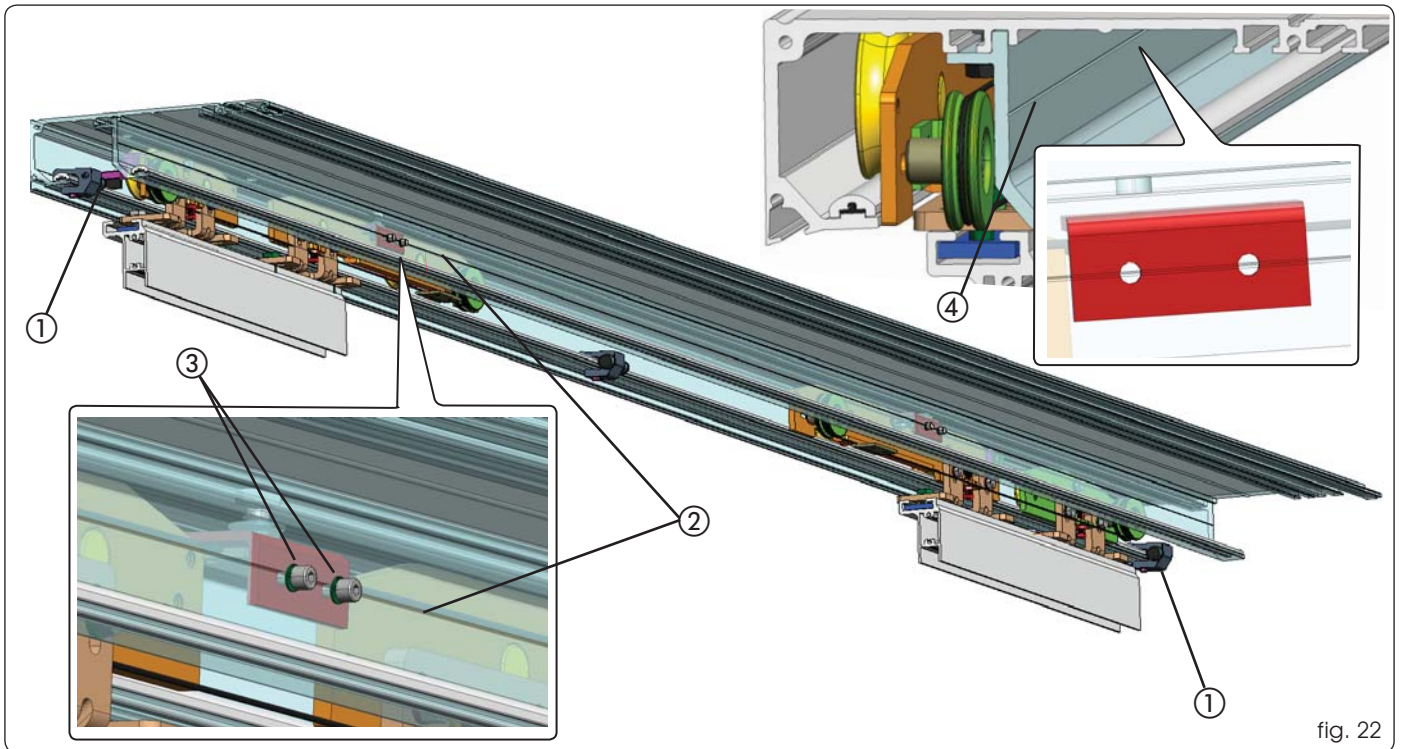


fig. 22

2A - 2 PREPARING THE INTERNAL CARRIAGES

Assemble the internal carriages .

Assemble the supports and the bracket fig.23 Ref. ① ②.

Fit the belt coupling unit fig.23 Ref. ③.

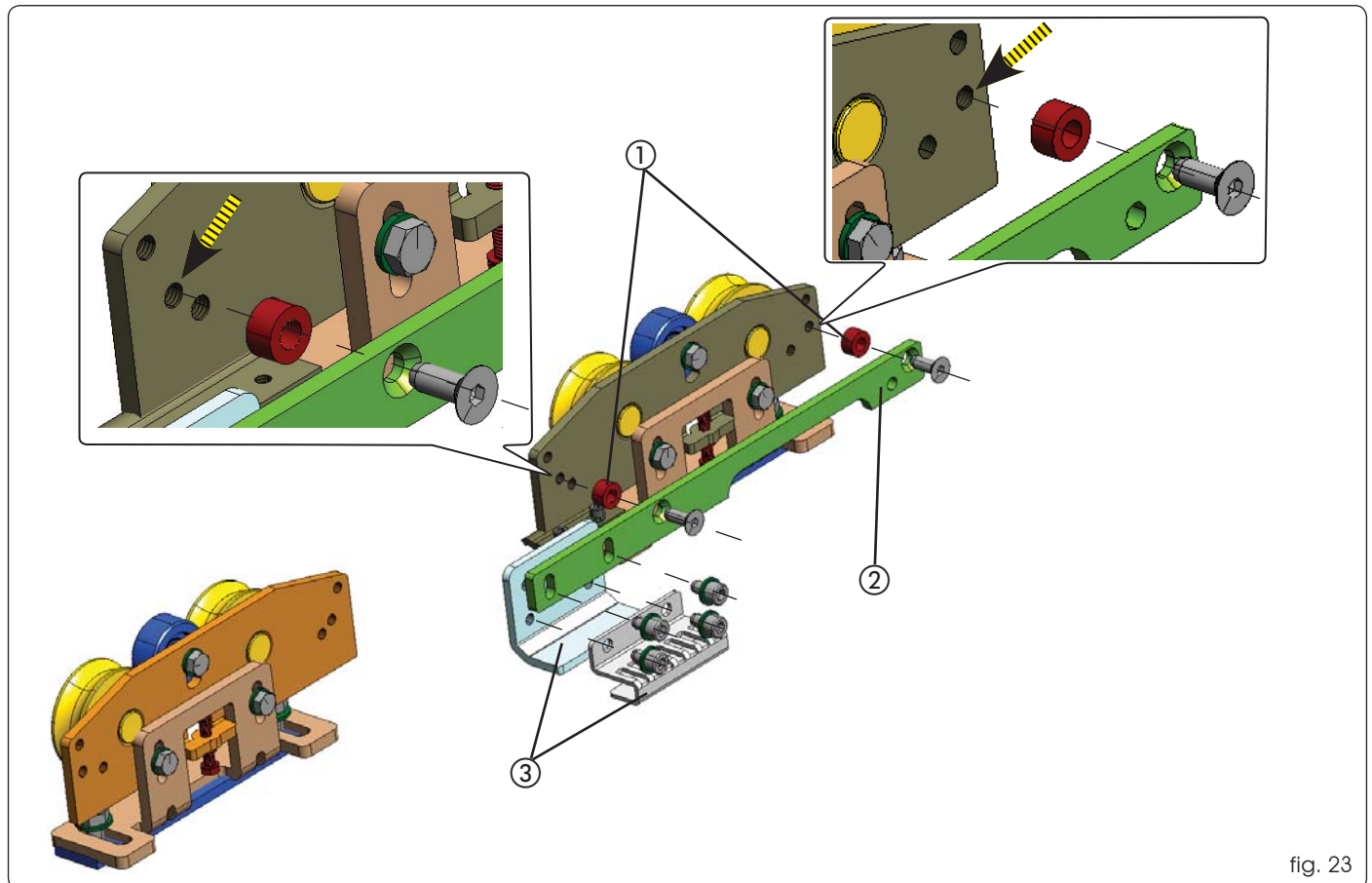


fig. 23

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Assemble the carriages on the leaf support fig.24 Ref. ①②.

Fit the bracket to secure the steel cable of the external carriages fig.24 Ref.③

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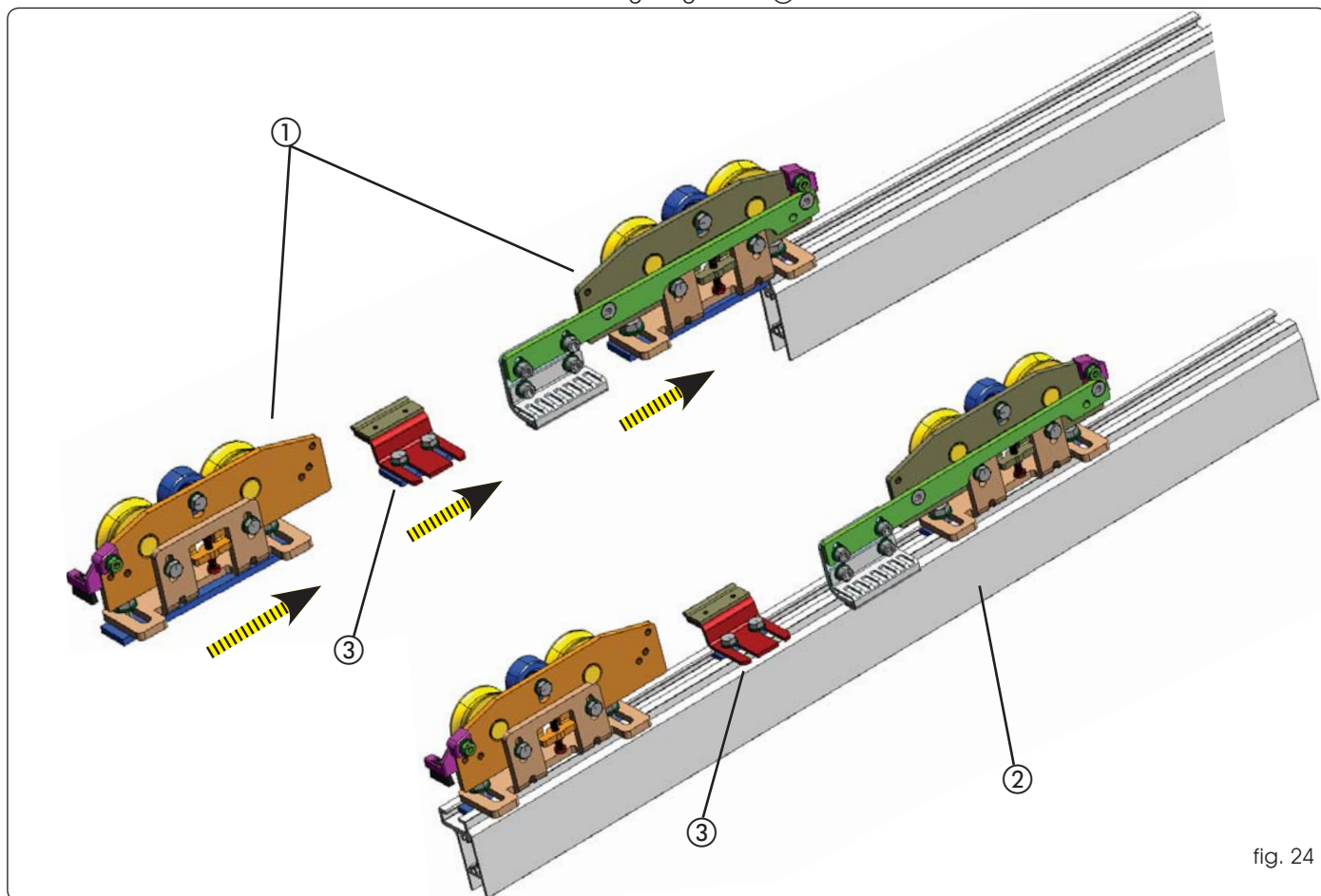


fig. 24

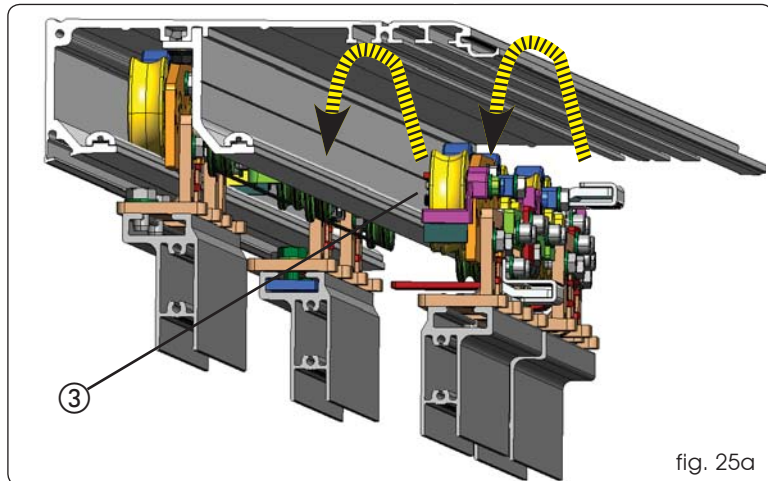


fig. 25a

Fit the carriage/leaf assembled unit on the profile fig.25a-b Ref. ③④ .

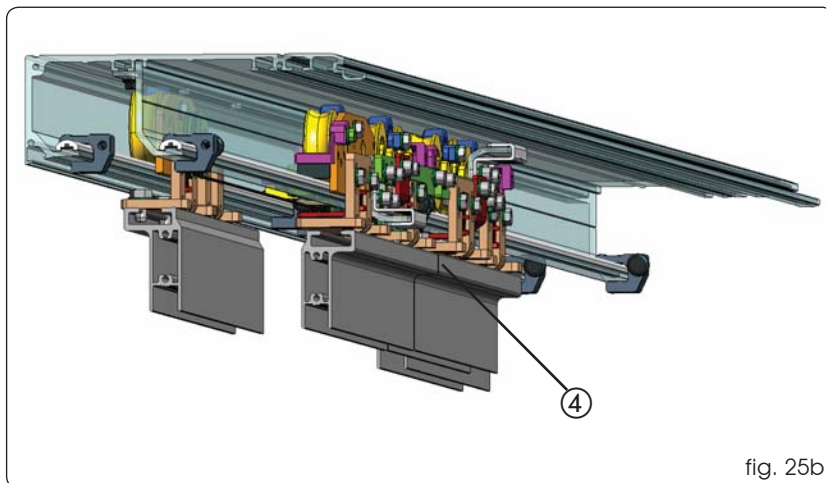


fig. 25b

Take the inner leaves of the A140 AIR door to closed position fig.26 Ref. ① .
Make sure that between the external and internal leaves there is a 25 mm overlap fig.26 Ref. ① .
In this condition use the brackets to lock the steel cable of the external carriages fig.26 Ref. ② .
Secure the cable under the brackets using the supplied screws fig.26 Ref. ③ .

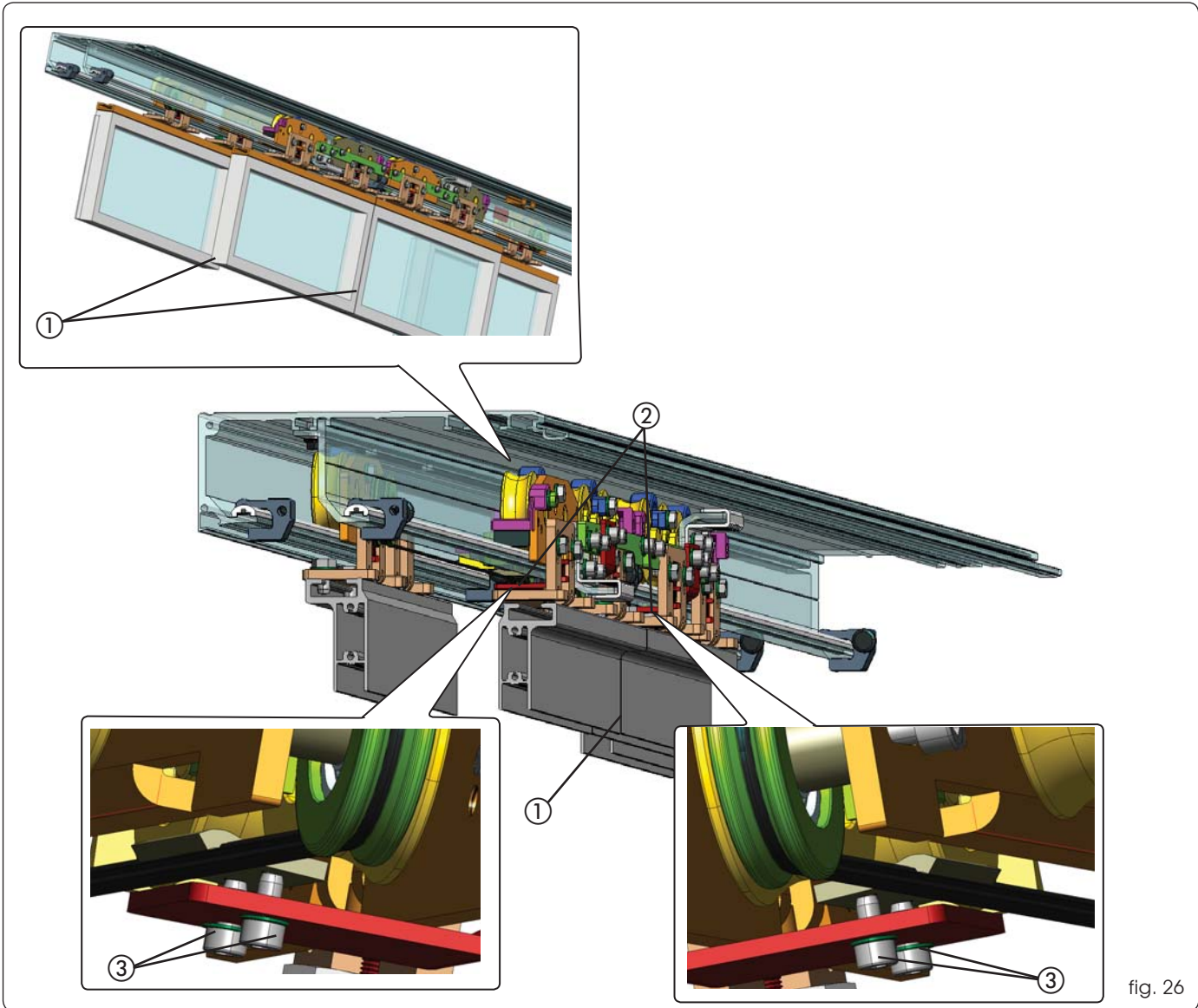


fig. 26

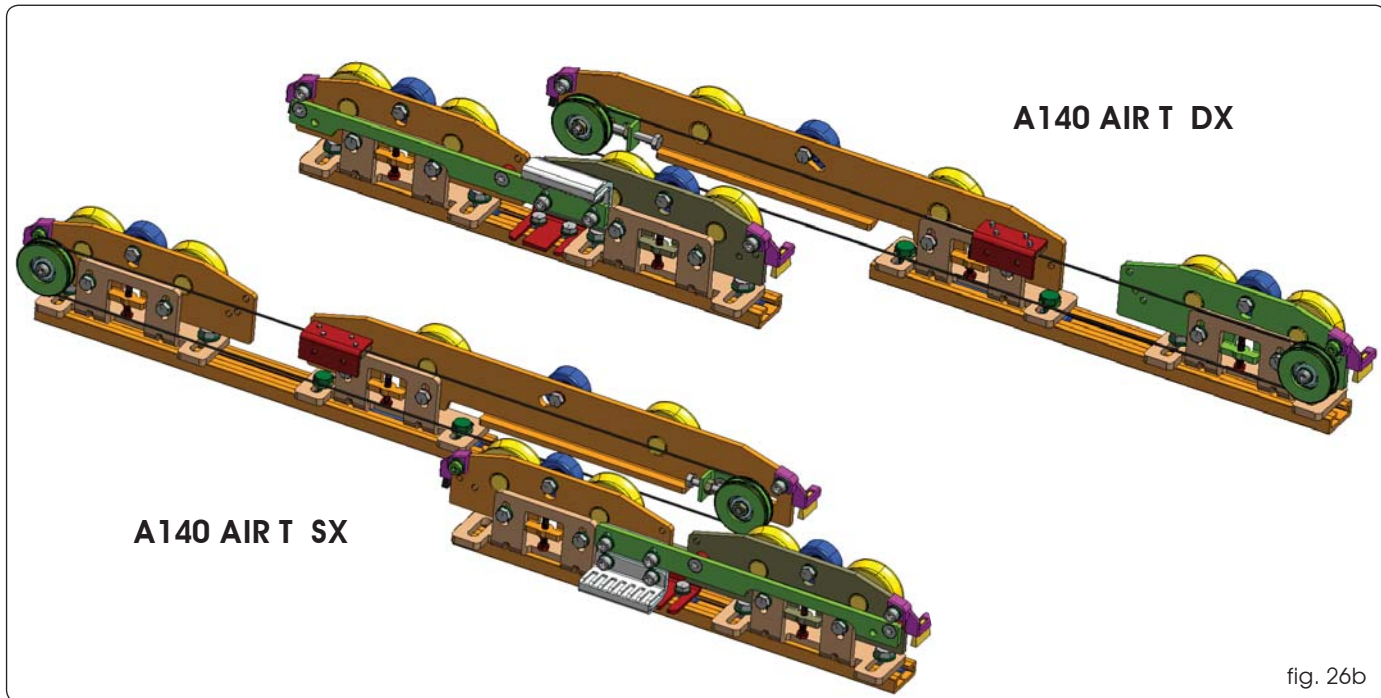


fig. 26b

3A INSTALLING THE LOWER SLIDING BLOCKS

The lower sliding blocks are designed for securing to a wall (or fixed leaf) or to the floor.

Assemble the sliding blocks, referring to the dimensions in figures 27-28 and 29.

On-wall securing (or on fixed leaf):

- Secure the sliding blocks as shown in Fig. 27-28 ref. ①, using adequate screws.

Securing on the floor

- Directly secure the sliding block to the floor, as shown in Fig. 27-28 ref. ②, using adequate expansion plugs and screws.

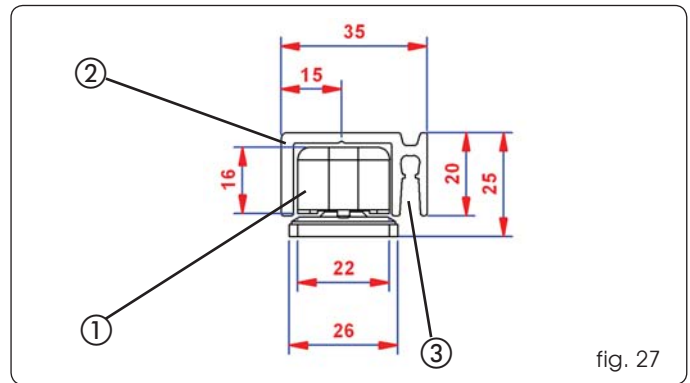


fig. 27

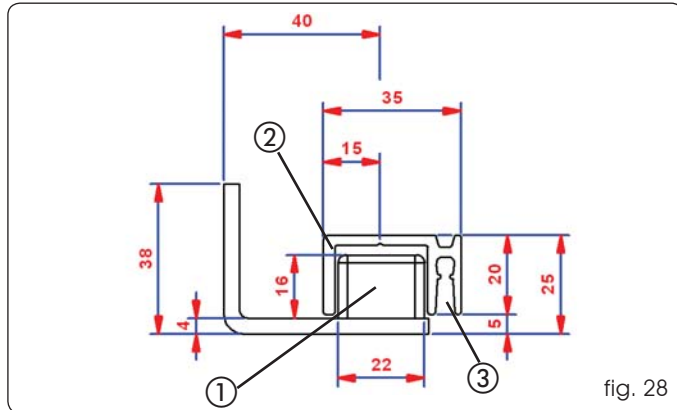


fig. 28

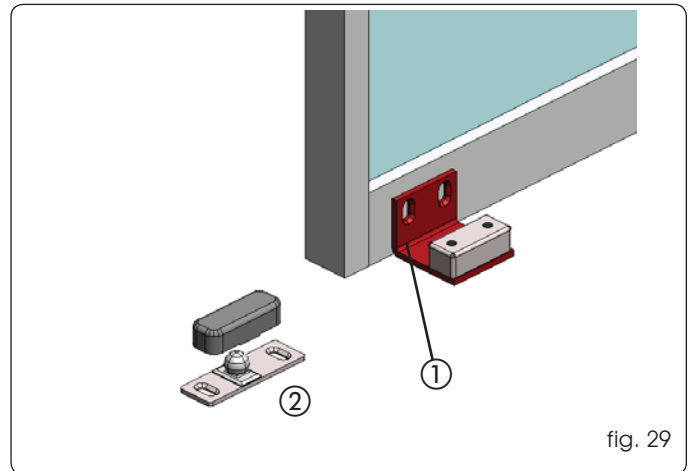


fig. 29

4A ADJUSTING THE LEAVES

When you have prepared the leaves, install them on the support profile.

The carriages have two sliding wheels (Fig.30 ref. ①) and a counter-thrust wheel (Fig.30 ref. ②)

Two slots are provided on the base of the carriages. These slots enable leaf depth adjustment (Fig.30 ref. ③)

4.1A LEAF HEIGHT ADJUSTMENT

The carriages allow leaf height adjustment of ± 7.5 mm. Adjustment procedure:

- Slightly loosen the two screws M6 - fig.31 ref.④.
- Turn the screw (fig.31 ref.5 clockwise to raise the leaves or anti-clockwise to lower them.
- Tighten the two screws M6 you had loosened

4.2A LEAF DEPTH ADJUSTMENT

To adjust the depth of the leaves, loosen the 2 bolts as shown in Fig.32 ref. ③.

Move the leaf on the carriage slot as you require and tighten the 2 bolts.

Make sure that the leaves are parallel with respect to the support profile.

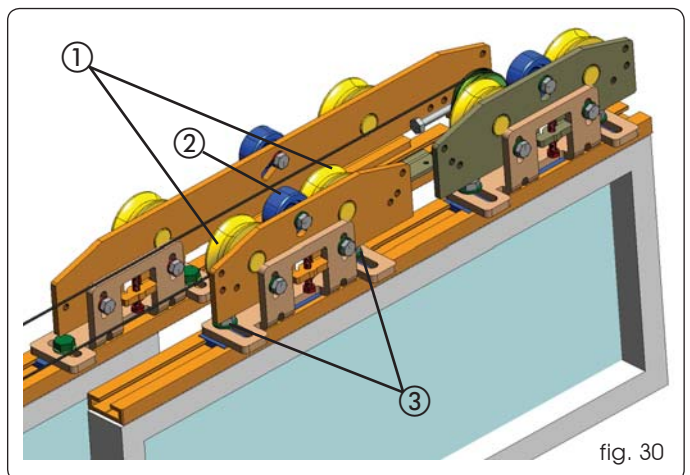


fig. 30

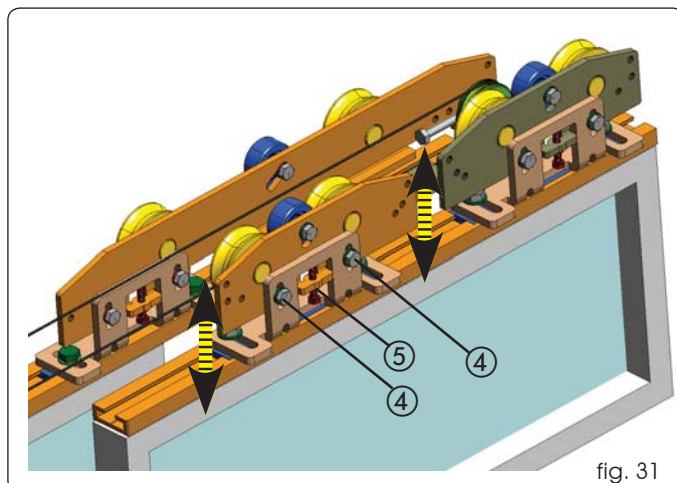


fig. 31

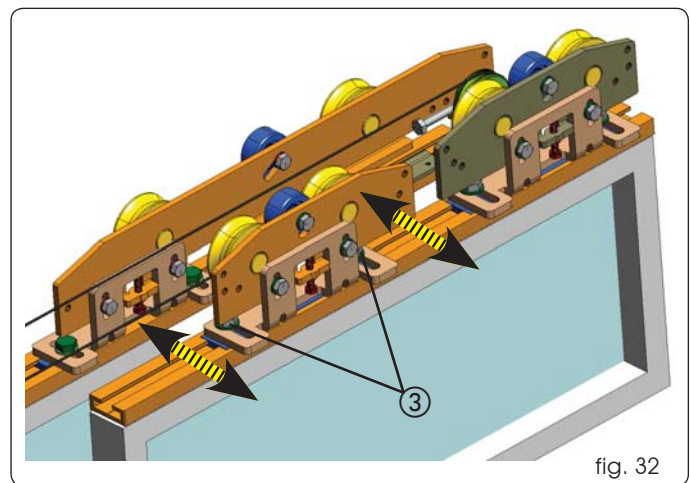



fig. 32

4.3A ADJUSTING THE COUNTER-THRUST WHEEL

The carriages have a counter-thrust wheel which prevents them from coming out of their seat.

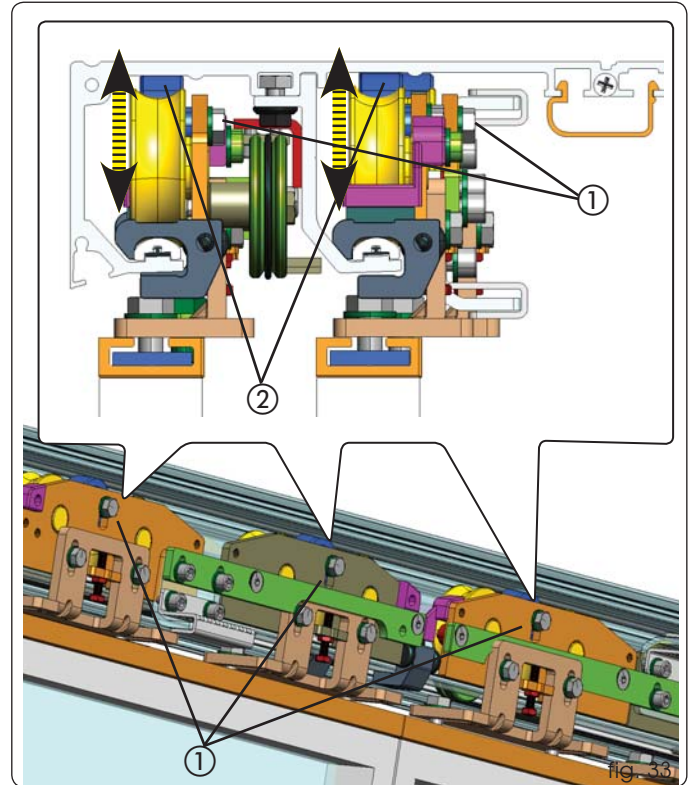
 **The wheel must be adjusted so that it does not press on the support profile, to thus avoid increased friction.**

Counter-thrust wheel adjustment procedure:

- Loosen the screw M6 (Fig.33 ref.1).
- Adjust the height of the wheel support, making it come as close as possible to the main profile without touching it (Fig.33 ref.2).
- When you have adjusted the wheel's height, tighten the screw M6 (Fig. 33 ref. ①).

If necessary, use a shim of about 0.5 mm, placing it between the wheel and the main profile, removing it when you have finished the adjustment.

Move the leaves by hand and check if the counter-thrust wheel is free to move without grazing.



5A ADJUSTING THE OPENING MECHANICAL STOPS

The automatic door is supplied with the opening mechanical stops installed on the support profile. As the leaves open, make sure that the carriages come into contact with the mechanical stops. If adjustments are required, proceed as follow:

- Loosen the Allen screws of the mechanical stops (Fig. 34 ref. ①) and take them to the ends of the support profile.
- Take the leaf or leaves into opening position (fig. 35), take the mechanical stop near to the carriage until the two parts touch and tighten the Allen screws (Fig34 ref. ①).
- Place and secure the external mechanical stop of the leaf/leaves.

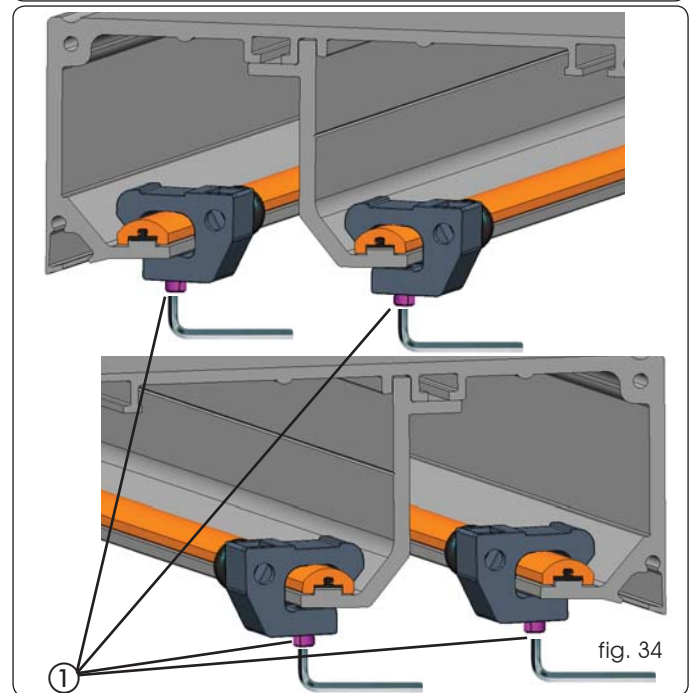


fig. 34

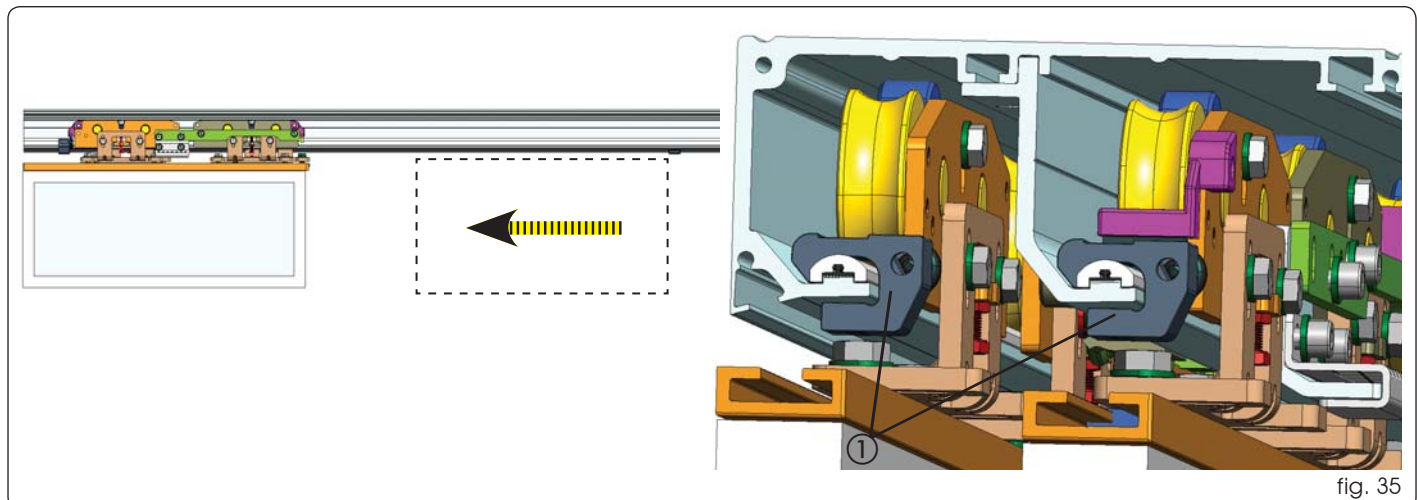


fig. 35

6A ADJUSTING THE CLOSING MECHANICAL STOPS (DOUBLE LEAF)

The automatic door is supplied with the closing mechanical stops installed on the mid-point of the support profile. If the door centre requires adjustment, proceed as follows:

- Check if the mechanical stops are at the centre of the profile.
- Take the leaf or leaves into the closing position.
- Loosen the 2 screws 10mm of the carriages (Fig.36 ref.①).
- Take the carriage close to the contact point until the two touch.
- Tighten again the 2 screws 10mm securing the carriages.
- Place and secure the closing mechanical stops of the external leaves (fig. 36 ref. ②) with internal leaves at closure against the stop limit (fig. 36 ref. ③).

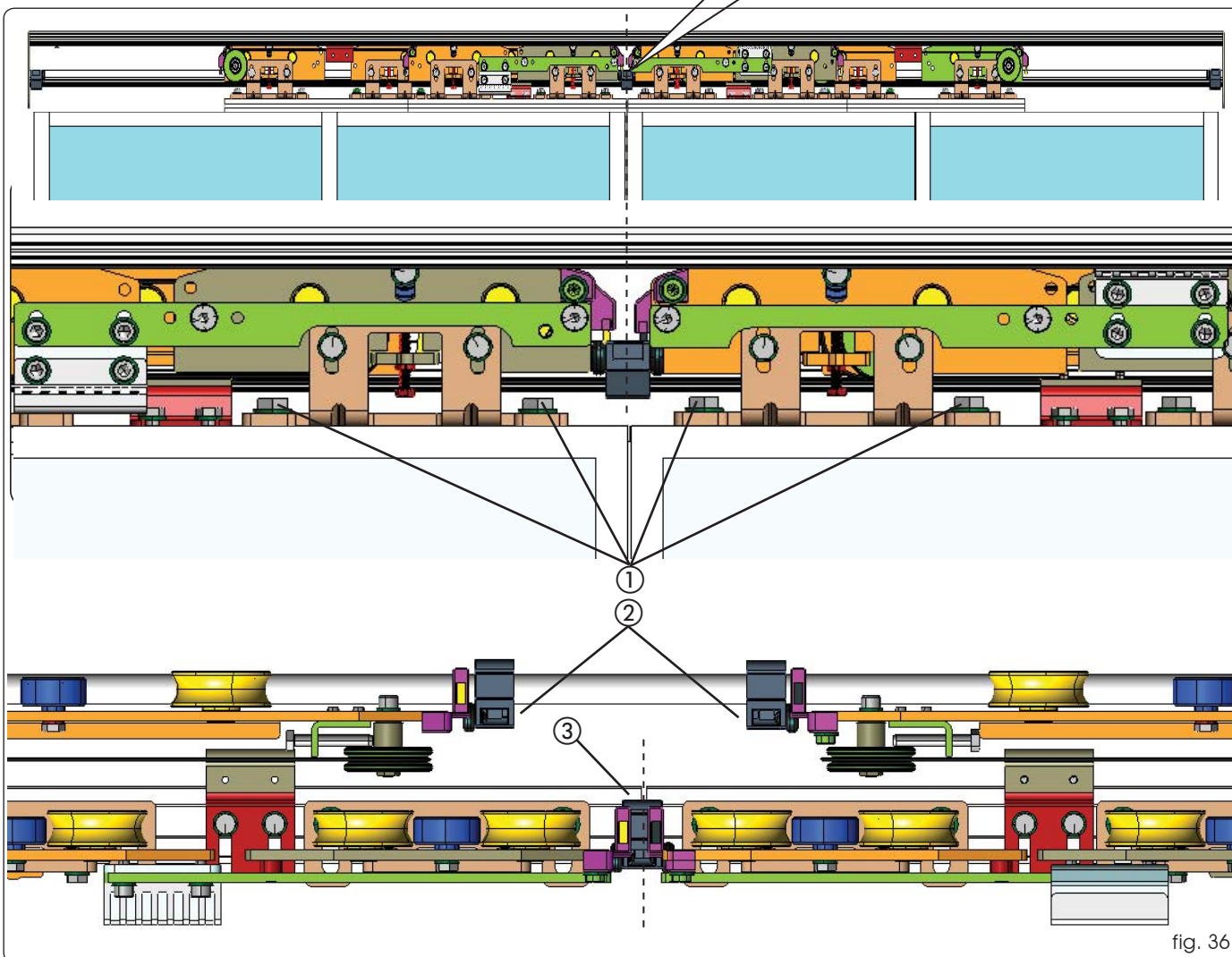
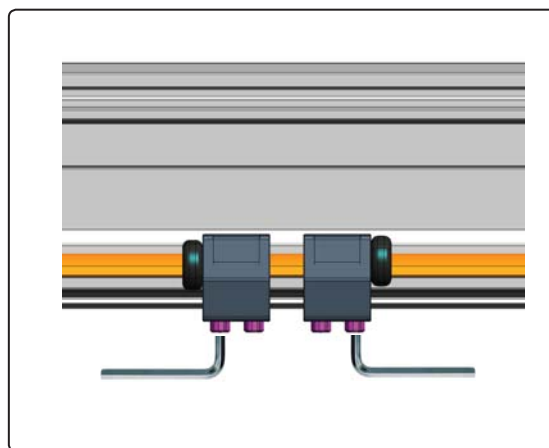


fig. 36

6.1A ADJUSTING THE CLOSING MECHANICAL STOPS (SINGLE LEAF)

The automatic door is supplied with the closing mechanical stops installed on the support profile. As the leaves close, make sure that the carriages come into contact with the mechanical stops. Place and secure the closing mechanical stops of the external leaves.

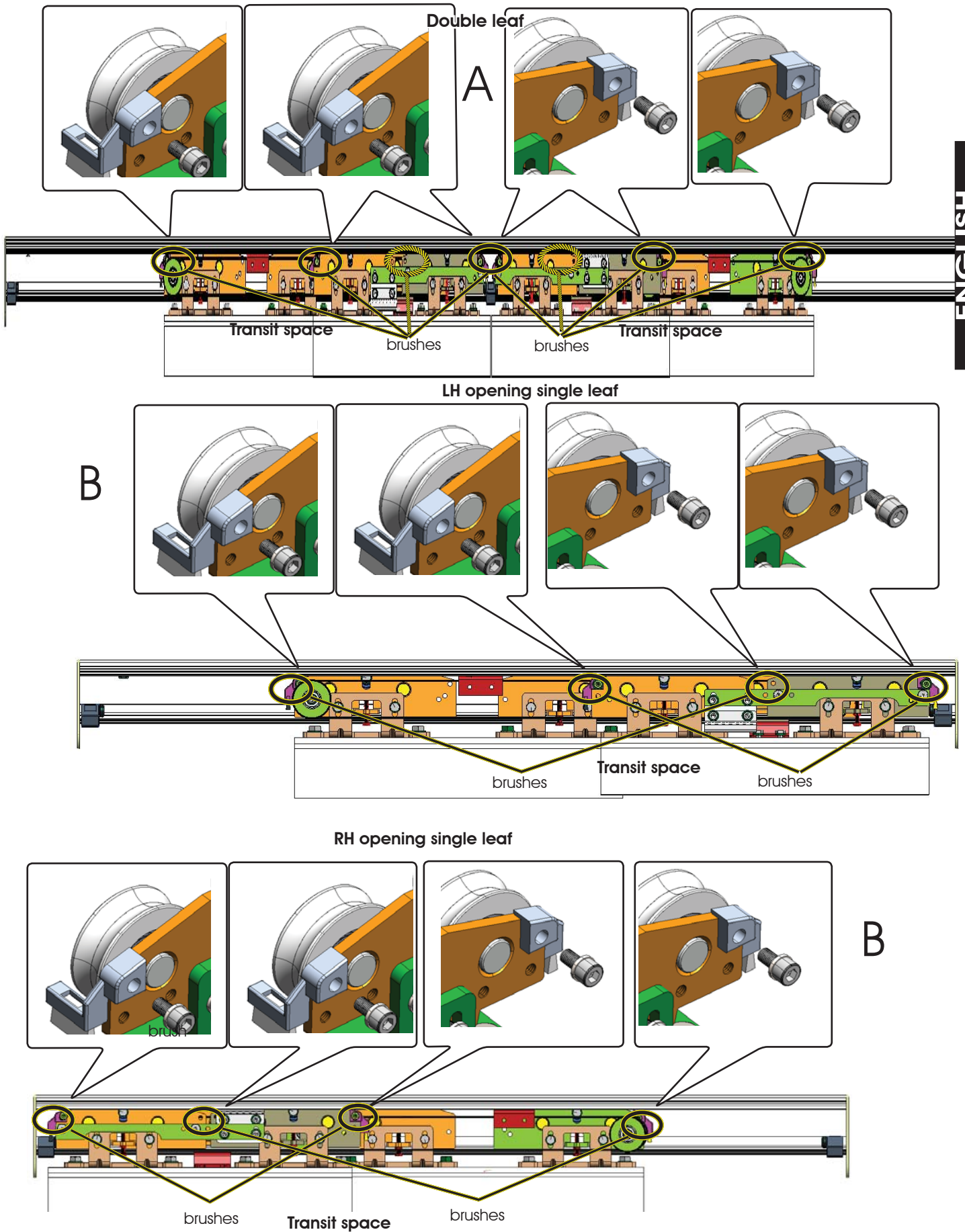
7A INSTALLING BRUSHES

Double leaf automated systems:

Install 8 brushes as shown in Fig. 37 ref. A.

Single leaf automated systems:

Install 4 brushes as shown in fig. 37 ref. B.



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fig. 37

8A FITTING THE MOTOR UNIT AND THE ELECTRONICS MODULE

Then insert the electronics module and secure it using the two rod bolts. (fig.38 B ①)
 Insert 3 small plates sideways of the profile and secure the motor with the 3 screws to the support profile (fig.38 A ①).
 On the motor bracket there is a gauge with a belt lift-proof function (fig.38 A ②)

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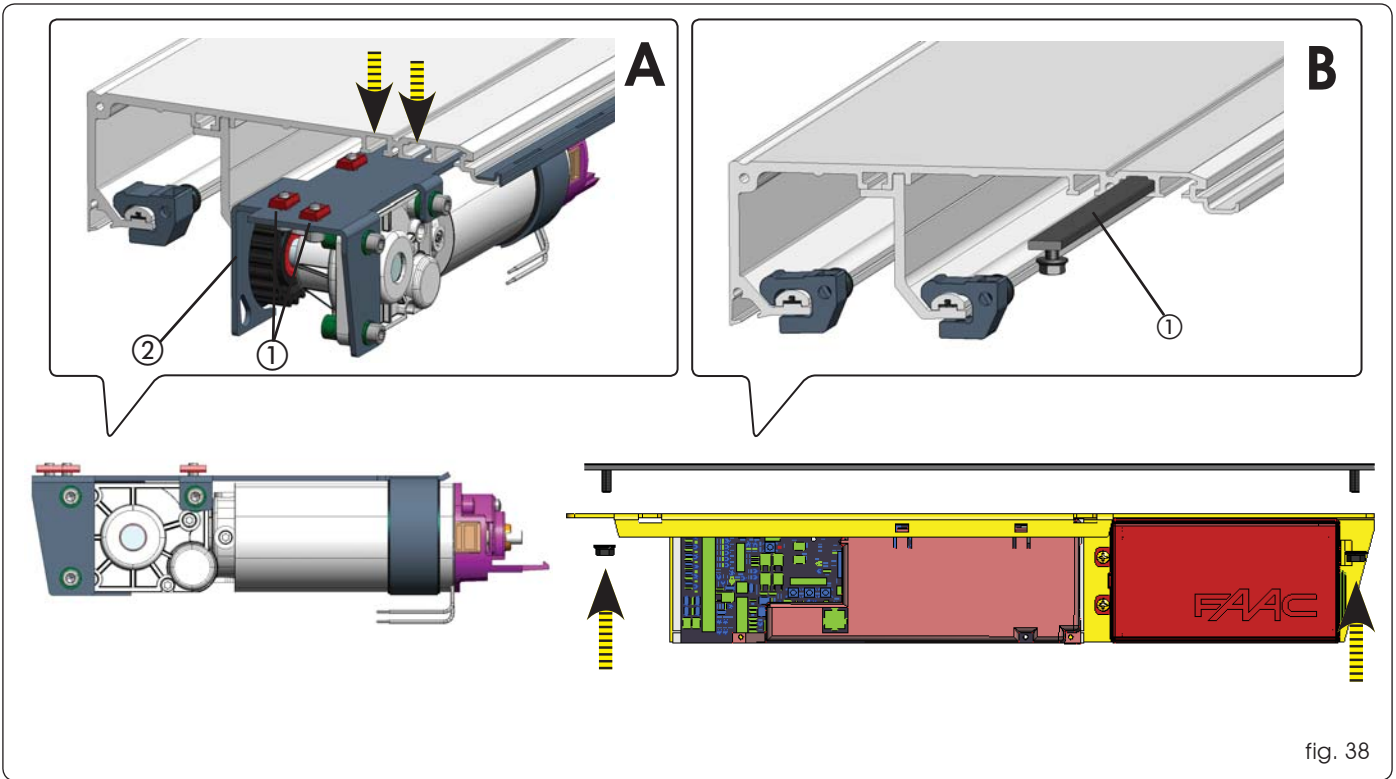


fig. 38

9A FITTING THE TRASMISSION PULLEY UNIT

insert the transmission pulley unit fig.39 ref ①

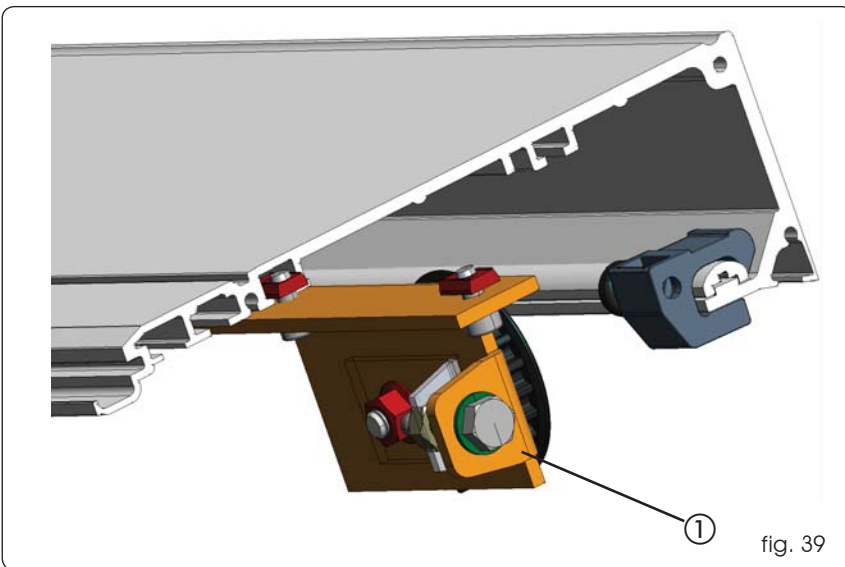
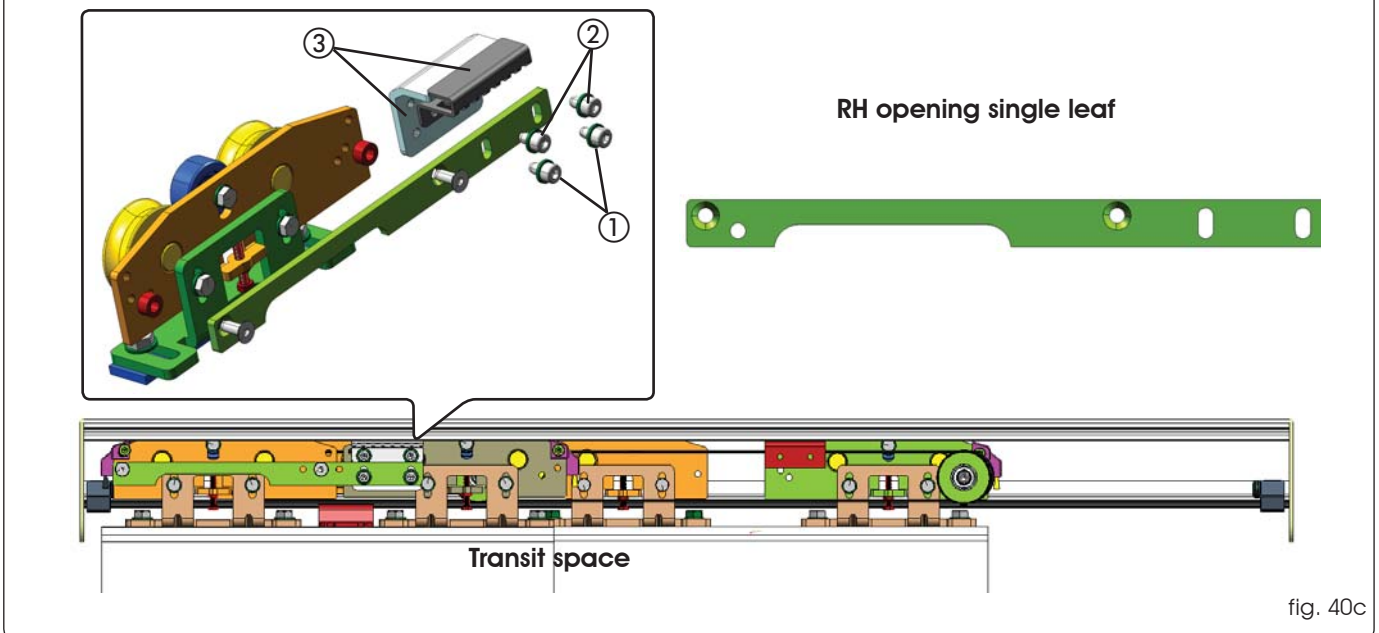
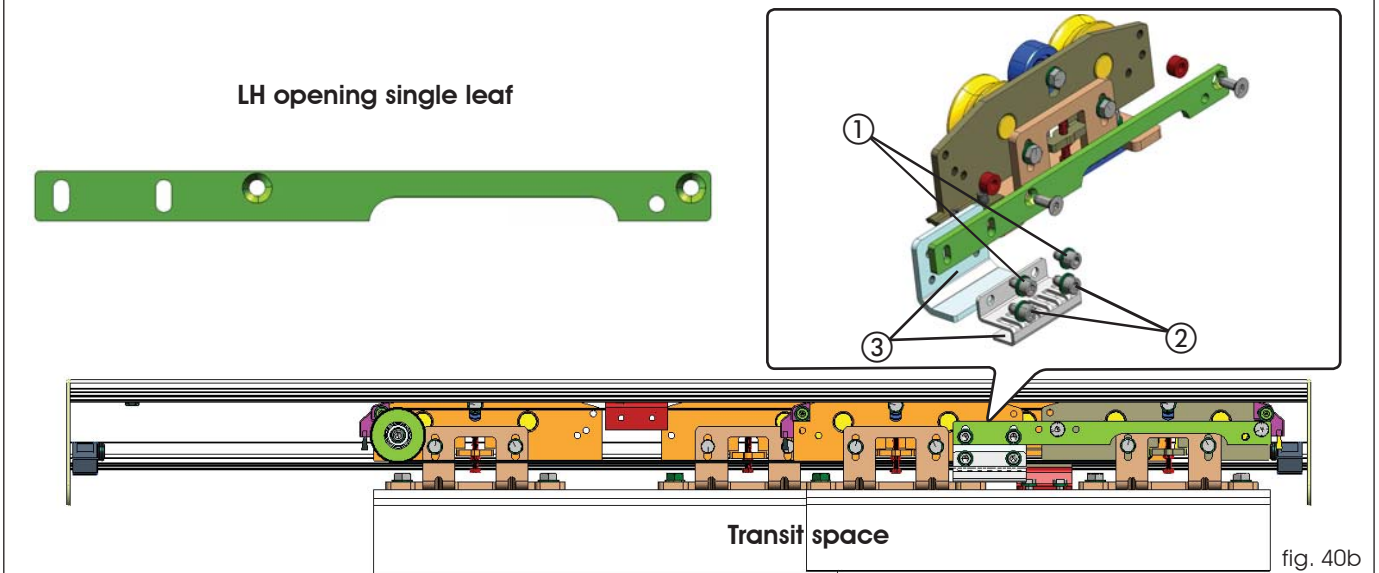
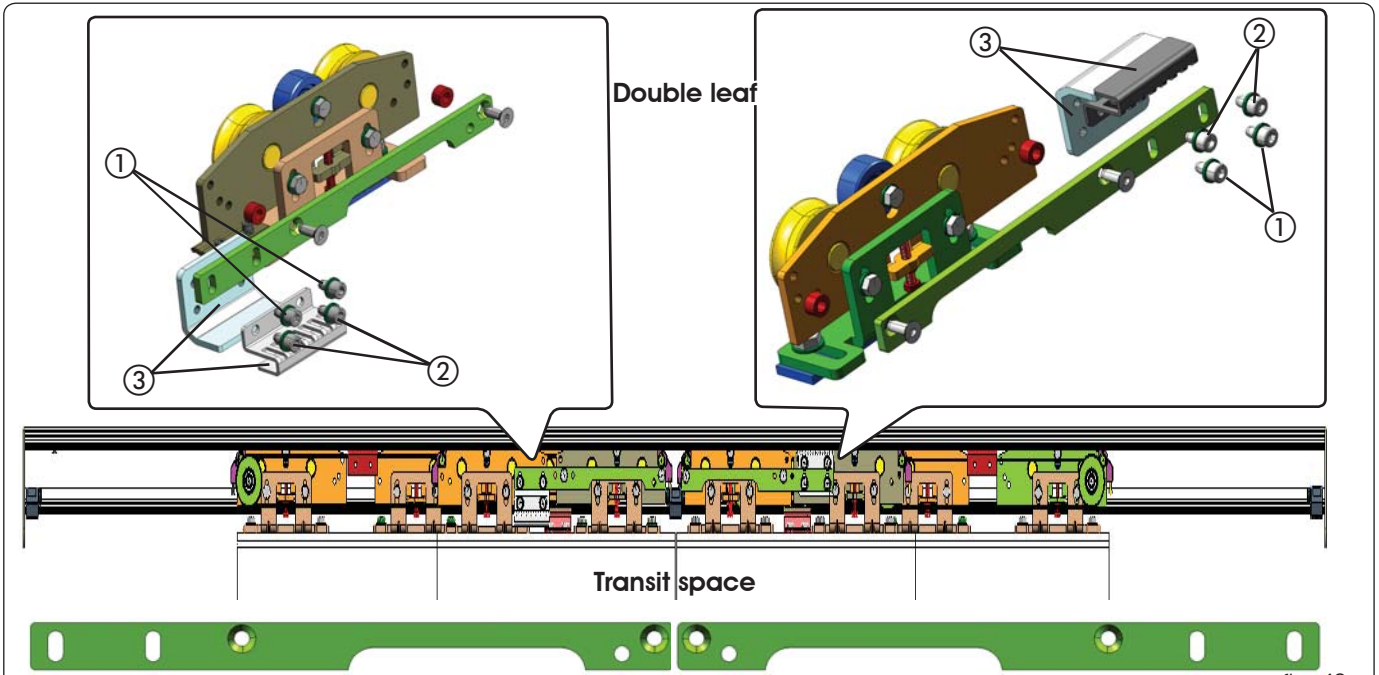


fig. 39

10A ADJUSTING THE BELT FASTENING ON CARRIAGES

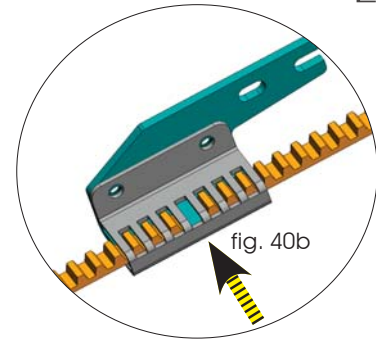
proceed as follows:



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the belt is fastened to the carriages by the fastening fittings fig.40 ref. ③
The junction of the belt is attached at the top and the bottom of the fittings, as shown in fig.40 for double leaf in the upper belt fitting and for single right-hand or left-hand leaf in the lower belt fitting.

⚠ Important : The middle slot of the belt fitting must be left empty
rif. fig.40b



10-1A ADJUSTING BELT TENSION

Make sure that the belt is not too loose or too taut.

Belt tensioning procedure:

- Loosen the nut (Fig. 41 ref. ①).
- Turn the screw and bolt (Fig.41 ref. ②) to tighten or loosen the belt.
- After controlling tension, tighten the nut (Fig. 41 ref. ①)

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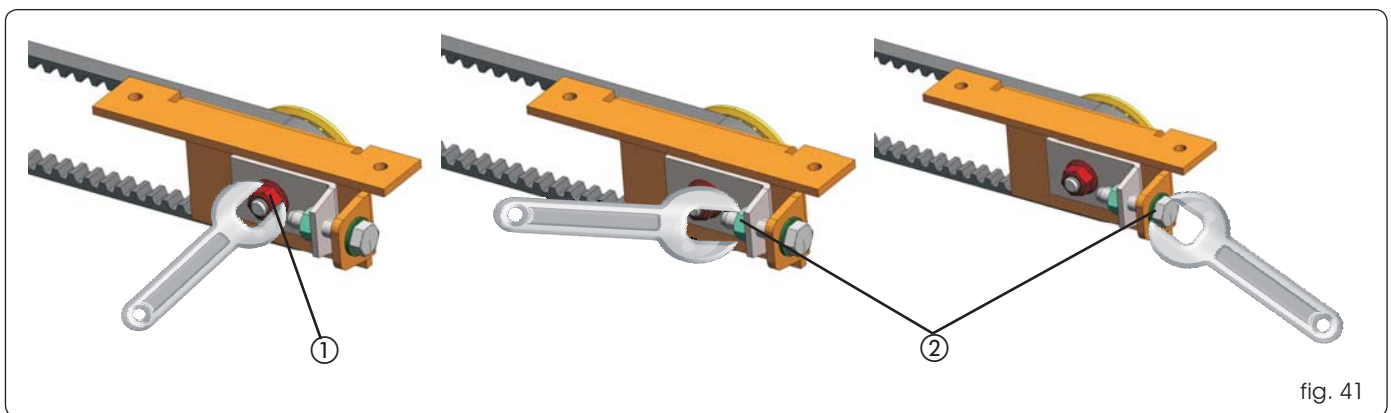


fig. 41

- Take the automated system into closing position.
- If fine adjustment is needed, operate as follows:
- Turn the two pairs of screws (Fig. 40a,b,c ref. ① and ②) of each carriage to obtain the required adjustment.
- Tighten the screws (Fig. 40a,b,c ref. ① and ②) .
- Check if the closing contact point between the two leaves corresponds to the support profile mid-point and if the leaves are able to open and close completely.

11A INSTALLING THE PARACHUTE AND THE SPACERS

Check if the parachute cables are present, and, if necessary, secure them on the two ends of the support profile, housing the bigger end of the cable in the seats (Fig. 42 ref. ①).

Check if the three anti-vibration spacers (Fig. 42 ref. ②) are present, and, if necessary, insert them on the outer edge of the support profile, positioning them at the ends and centrally.

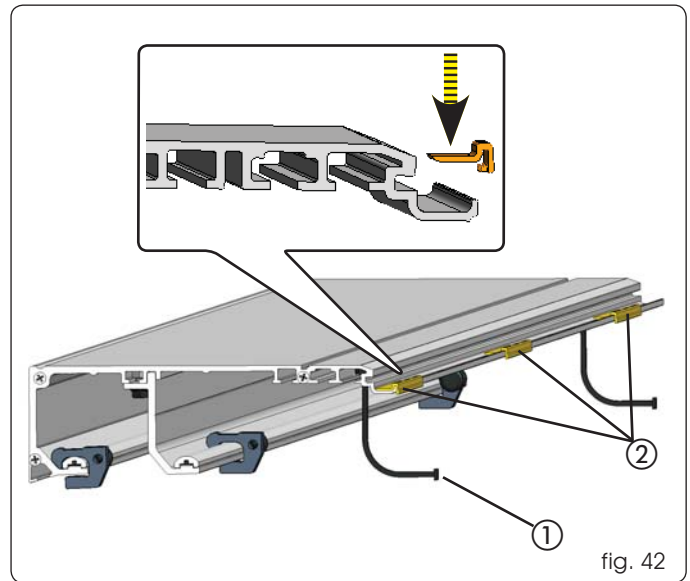


fig. 42

12A FITTING THE SIDE PANELS A140 AIR - T

To fit the side panels, use the screws on the support profile to fit the side panels as shown in fig. 43 ref. ①.

You must also install the 3 guard securing brackets - two side and one centre - by inserting the side plates fig. 44 ref. ①

⚠ Important : The side covers are a necessary element to assure stiffness and resistance of the telescopic profile structure. These features cannot be assured in the event of omitted assembly

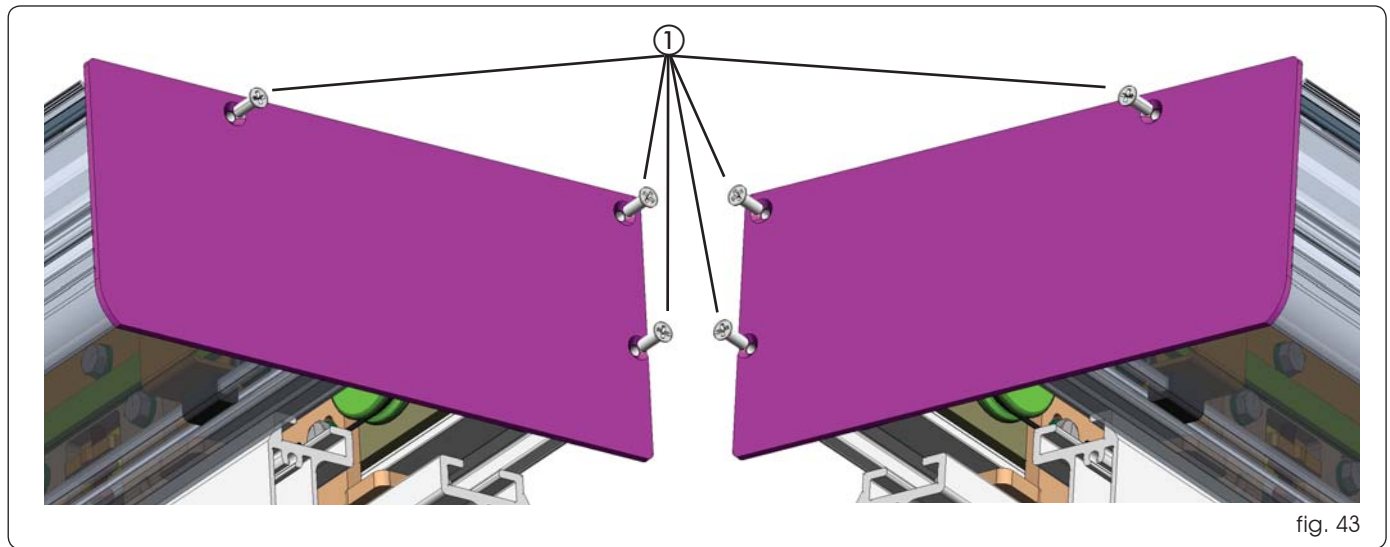


fig. 43

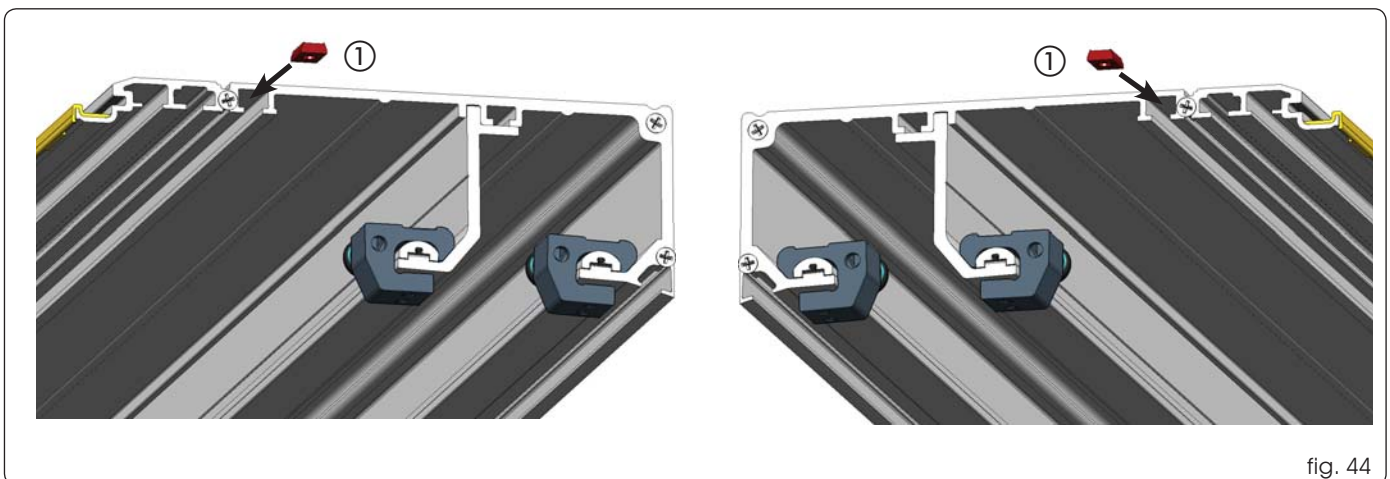


fig. 44

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Fit the side panels and the 3 housing securing brackets: two side brackets and one central bracket as shown in fig. 45 ref.5

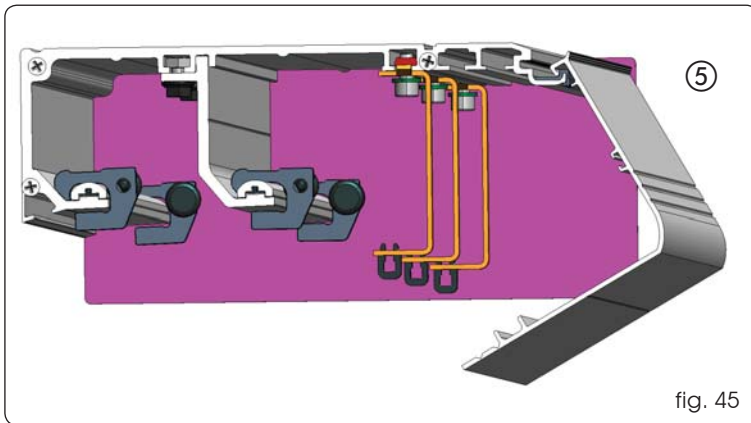



fig. 45

13A INSTALLING THE CLOSING HOUSING

- Lay the closing housing on the spacers you had previously mounted, as shown in Fig. 46 ① or ②.
- To keep the housing open, lift it (Fig. 46 ref. ③) and push it (Fig. 46 ref. ④) toward the profile until the metal protrusion fits in the profile seat.
- Secure the parachute cables in the appropriate seats (Fig. 46 ref. ⑤)
- The closing housing is secured in correspondence with the 3 securing brackets (fig. 46 ref. ⑥).
- The closing housing is pre-marked to adapt it to different leaf thickness values. Eliminate excess profile by cutting at the points indicated in fig. 46 ref. ⑦.

 *If you are using the internal release, in order to close the housing correctly, drill a hole near the release knob.*

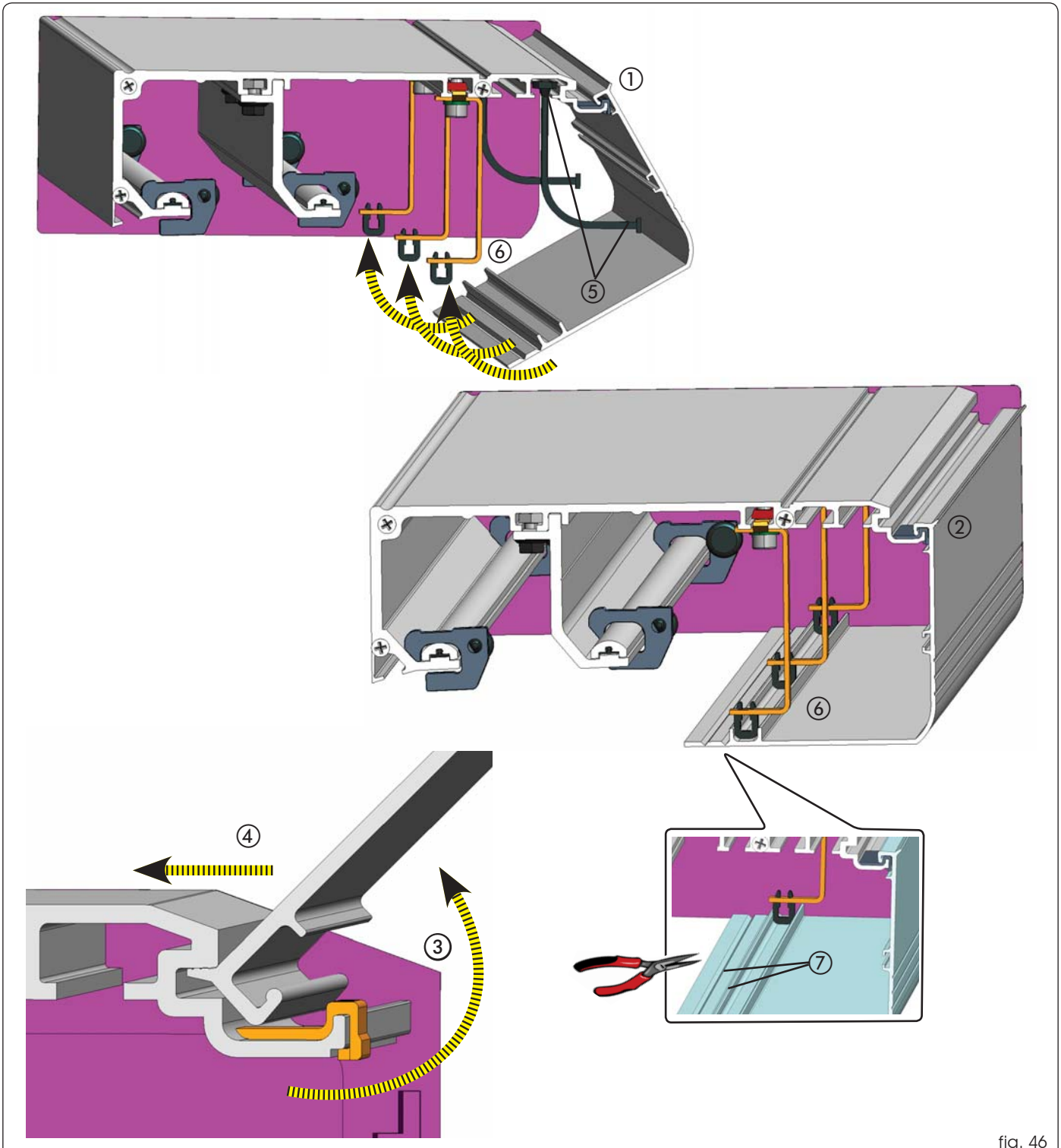


fig. 46

14A START-UP OF THE AUTOMATED SYSTEM

- Manually check correct sliding of the leaves and of all the moving elements.
- Carry out/check the electrical connections on the control board of the cables coming from the power supply unit, from the motor, and from all accessories, consulting the instructions of the control board.
- Use the raceways - suitably positioned (Fig. 47 ref. ① and ②) - to route the cables inside the support profile, thus preventing them from coming into contact with moving parts.
- Set motor rotation direction according to type of door (refer to the control board instructions).
- Connect the 115V~/230V~ power plug in the specific connector of the power supply unit (Fig. 47 ref. ③).

 To remove the electronic board cover, unscrew the two screws and press the two clips (Fig. 47 ref. ⑤)

 Check if the switch in fig. 47 ref. ④ is correctly positioned (230V~/115V~).

- Check the efficiency of all installed accessories, especially photocells and sensors.

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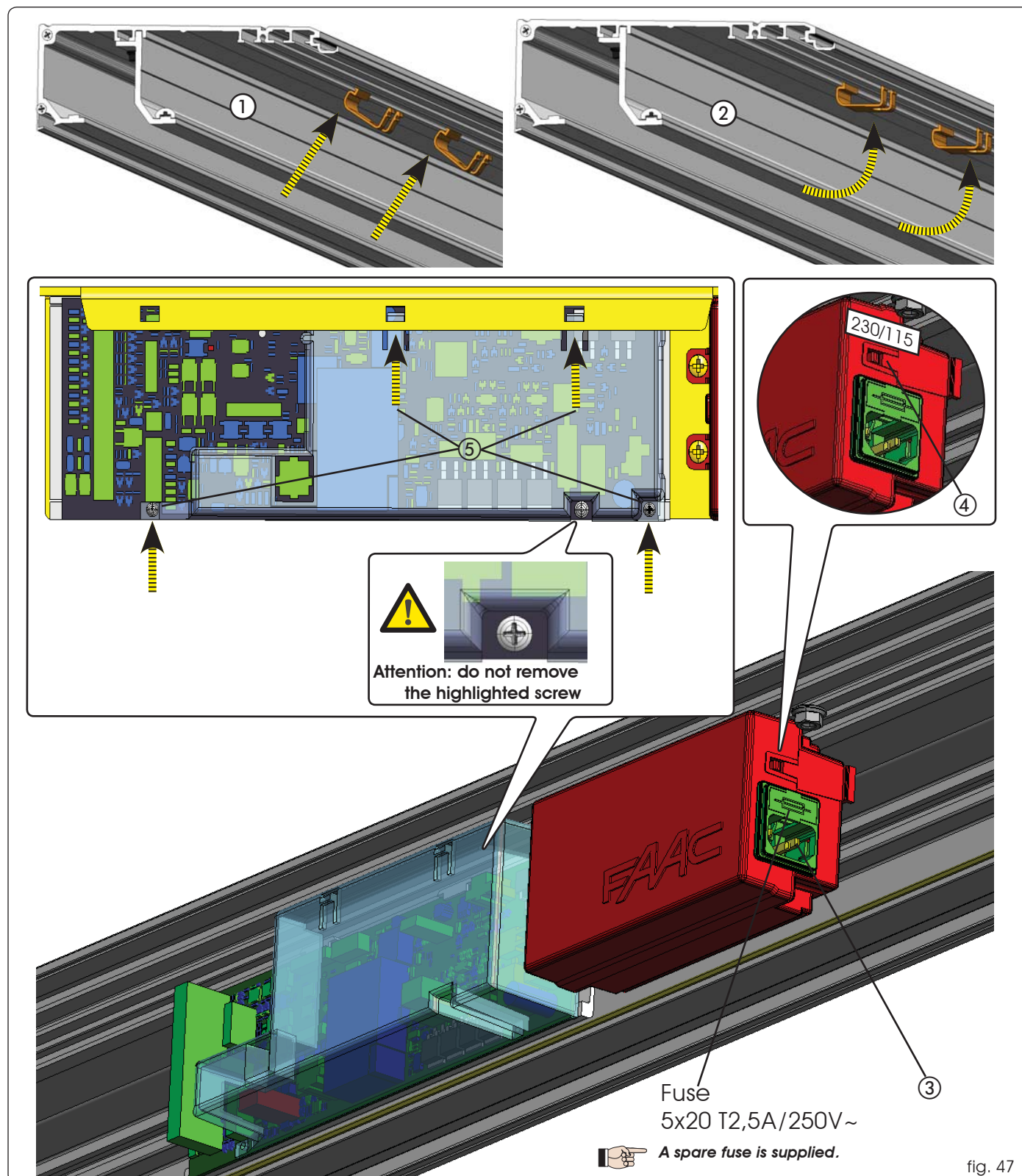
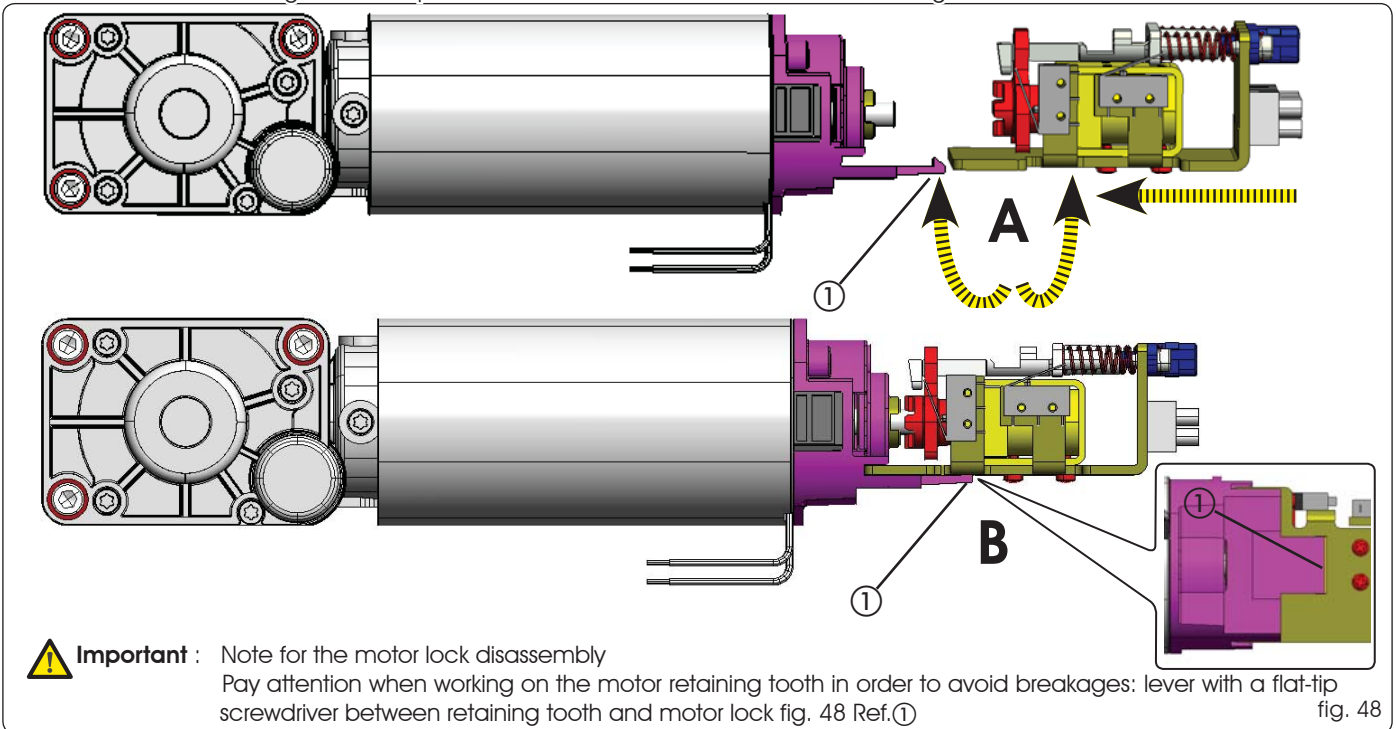


fig. 47

15A FITTING THE MOTOR LOCK

We recommend you perform the electrical connection of the motor lock to the E140 board before fitting it on the motor. Consult these instructions in the section concerning the control board connections in order to perform the wiring. Fit the motor lock inserting the motor pin into the slot of the motor block as shown in figure 48 ref. A e B



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15.1A ADJUSTING THE MOTOR LOCK

The motor locking device guarantees that the leaves are locked when closed. If requested when ordering, the motor locking device is supplied pre-installed on the support profile of the automated system and includes the knob operated internal release system.

Adjustment procedure for the motor locking device:

- Close the leaves.
- Manually push the lever (fig.49 ref. ①) toward the motor shaft, checking correct coupling as shown in fig. 49, ref.A).
- Move the lever (fig.49 ref.②) vertically and look for any play between the motor shaft and motor lock coupling.

If there is no play, proceed as follows:

- Loosen the two screws (fig.49 ref B ③) which connect the belt fitting to the drive carriage (on both carriages for double leaves).
- Gently move the belt coupling horizontally, until the lever moves freely; tighten the screws you had loosened.

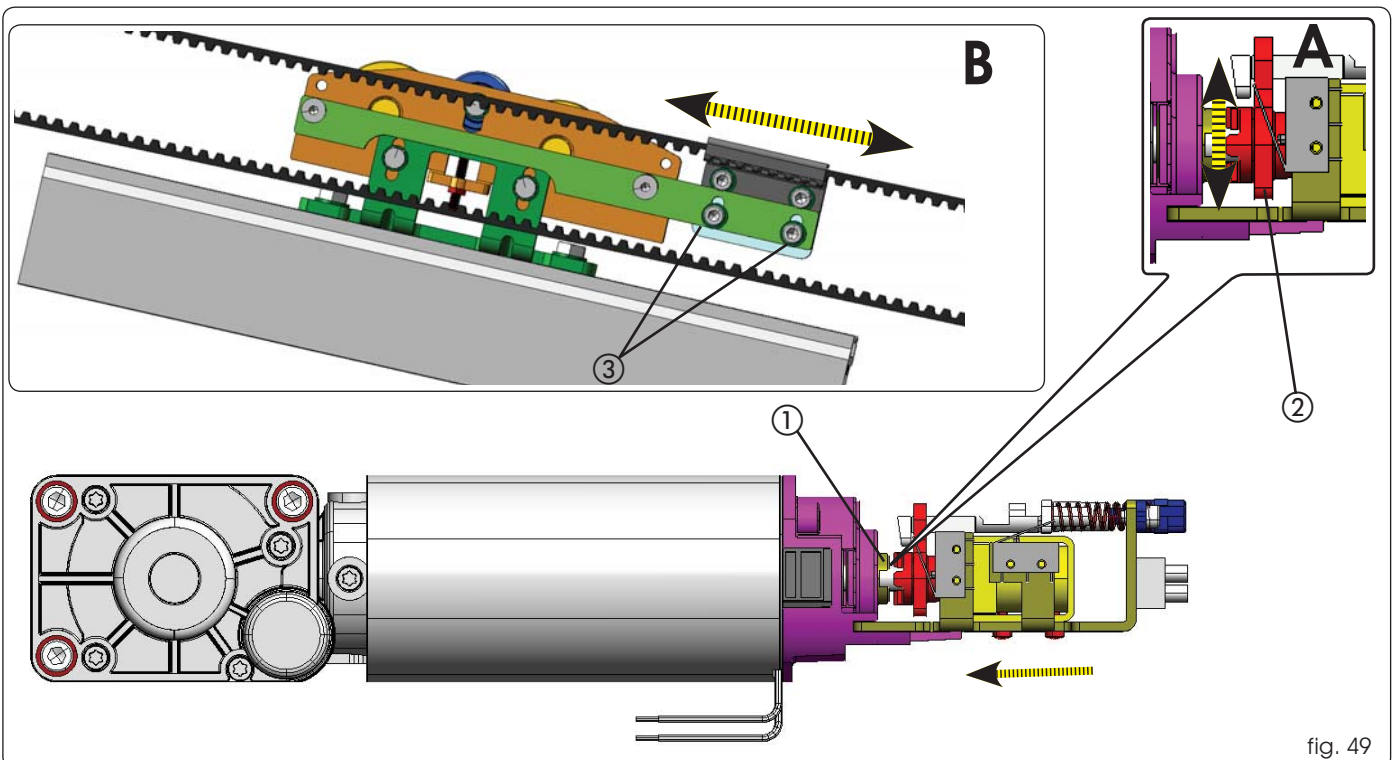


fig. 49

16A INSTALLING THE INTERNAL RELEASE KNOB

- Assemble the release knob on the side bracket as shown in fig. 50, after having inserted the two plates in the profile (fig. 50 ref. ①)
- Screw the adjusting screw with the relevant securing nut as shown in fig.51 ref. ①.
- Withdraw approx 20 cm of steel cable from the sheath.
- Insert the steel cable into the adjusting screw; let it route inside the release device (fig. 51 ref. ②).
- Block the steel cable by means of the relevant clamp and tighten the screw (fig. 51 ref. ③).
- Take the black sheath of the cable against the adjusting screw
- Tighten the adjusting screw on the bracket.
- Block the knob by pulling it and turning it by 90° and make sure that it does not return to its original position (fig. 51).
- Route the cable with sheath inside the cable channels till reaching the motor lock taking care to avoid too narrow curves of the sheath.
- Approach the cable with sheath to part ② of fig. 52 and cut the sheath in excess.
- Route the cable (fig. 52 ②) inside part a taking the sheath to end.
- Insert the cable in the clamp (fig. 52 ref. ③).
- Pull the part ⑧ to its end (by compressing the springs) and screw the clamp screw ③ thus blocking the steel cable.
- Cut the steel cable in excess.
- Check if the motor lock coupling is free from the motor shaft coupling (fig. 49 ref. A).
- If adjusting operations are necessary, use the knob bracket adjusting screw (fig. 51 ref. ①).
- Release the knob by turning it 90° and check if the release device operates. Make sure that, by pulling the knob, the door opening microswitch activates (fig.52 ref ④).

Consult these instructions in the section concerning the control board to perform the electrical connection of the motor lock. If an external release device must be fitted, use the relevant key-operated push-buttons. Insert the release cable on the motor lock using the relevant seat fig.52 rif. ②.

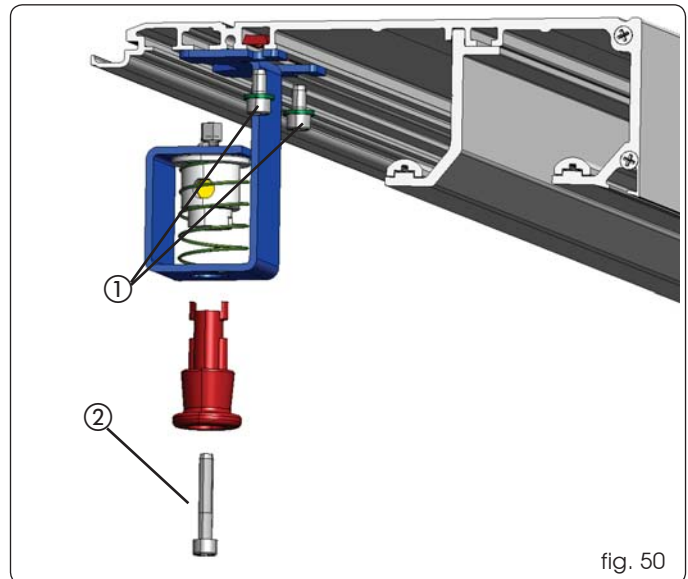


fig. 50

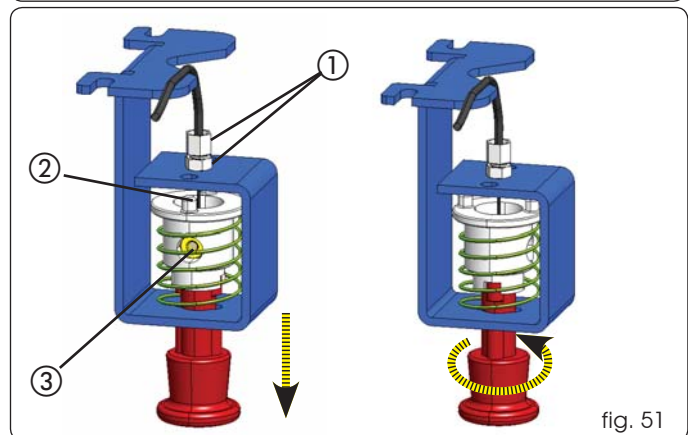


fig. 51

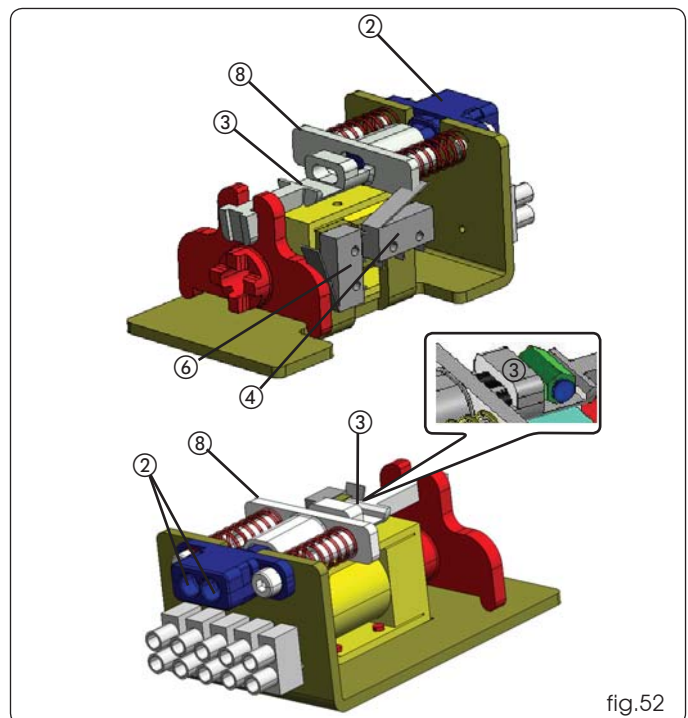




fig.52

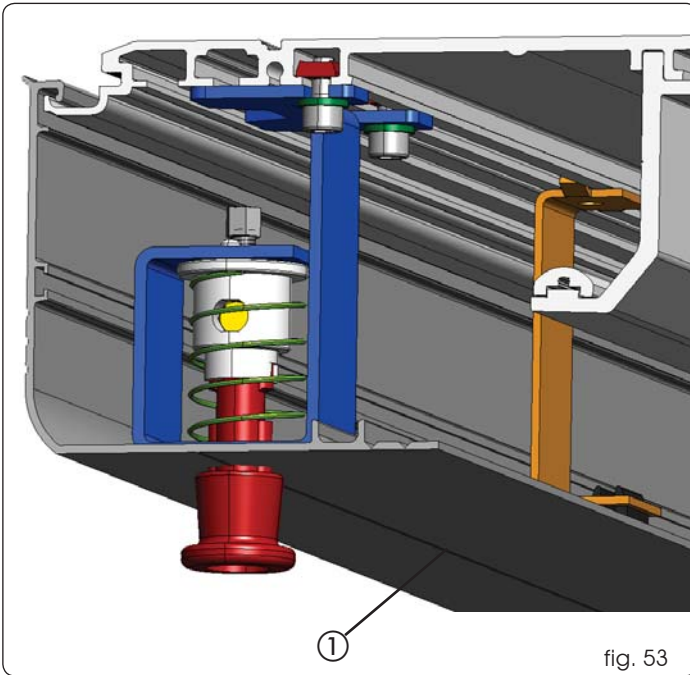
17A INSTALLING THE CLOSING HOUSING

 **Cut the housing profile to the same length as the support profile, except for 2mm to facilitate closing housing blocking with side panels.**

If the motor lock, and relevant release knob are present, drill a hole of at least 18 mm taking care to centre the hole with the release knob.

To facilitate the hole, use the line in fig.53 ref.① as a reference.

 **if the release knob is present, to open the housing, dismantle the knob, unfastening the screw in fig.50 ref. ②**

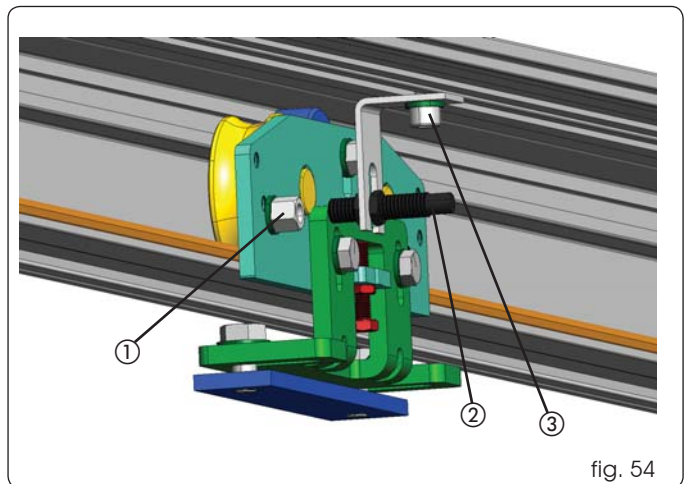


19A SUPERVISION SENSOR

The supervision sensor is an accessory (magnetic sensor) to which a relay can be connected via a connector, in order to have a door closed / door not closed state (e.g. to connect an alarm system).


Sensor installation procedure:

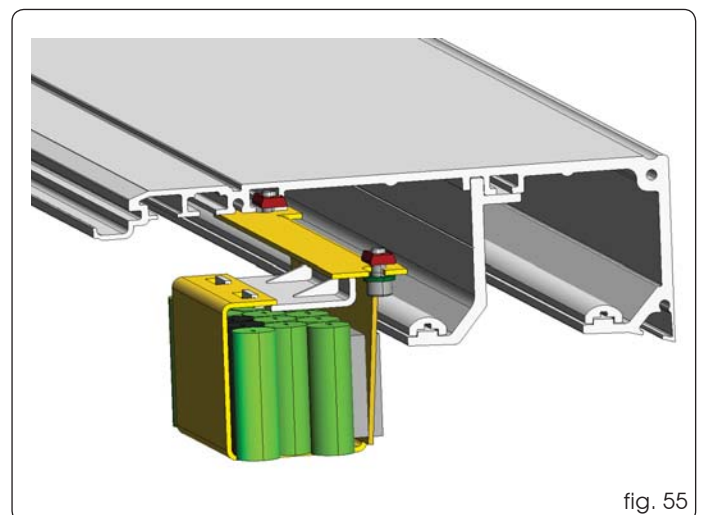
- Screw the magnet on the carriage nearest to the closing contact point, using the threaded hole on the belt fitting (fig.54 ref.①).
- Assemble the sensor to the bracket (fig. 54 ref.②), using the plastic nuts. Inset a threaded plate on the seats of the support profile, and install the bracket, using the screws (fig. 54 ref.③). Check if the sensor is in line with the magnet when the leaf is closed.



20A INSTALLING THE EMERGENCY BATTERY KIT

- Fit two plates in the support profile as shown in Fig. 55.
- Secure the battery support on the support profile, using the two supplied screws.
- For electrical connection of the battery board and for programming, refer to the control board section of these instructions.

 **Important:** After having fitted the battery kit, enable it from the E140 board in order to make it operating; to this end use push-buttons F +/- on parameter bA or the SD Keeper programming unit.



18A MICROSWITCH FOR SUPERVISION OF MOTOR LOCKING DEVICE

This accessory makes it possible to verify correct operation of the motor lock and, if it stays locked while open, signals an error via the control board.

Install the supervision microswitch as shown in Fig. 52 ref. ⑥. For electrical connection and programming, refer to the control board/accessories section of these instructions.

B. INSTALLATION OF ASSEMBLED AUTOMATED SYSTEM

There are 2 types of aluminium profiles for the cross beam:

-Support profile

The support profile is used to secure the automated system to a load bearing structure in metal or masonry , free of any significant deformation.

Position the cross beam on the floor, withdraw the 'parachute' cables from the housing, and remove the housing. If necessary, remove from the profile also those components (e.g. motor, carriages, transmission pulley) which could hamper you while securing to the wall, loosening the nuts from the plates.

To then position the removed parts, refer to figures 4-5-7.

Free-standing profile

It is the aluminium profile which, assembled to the support profile, grants the free-standing feature to the cross beam.

It is used when the cross beam cannot be completely secured to a bearing structure or when the support surface is not even

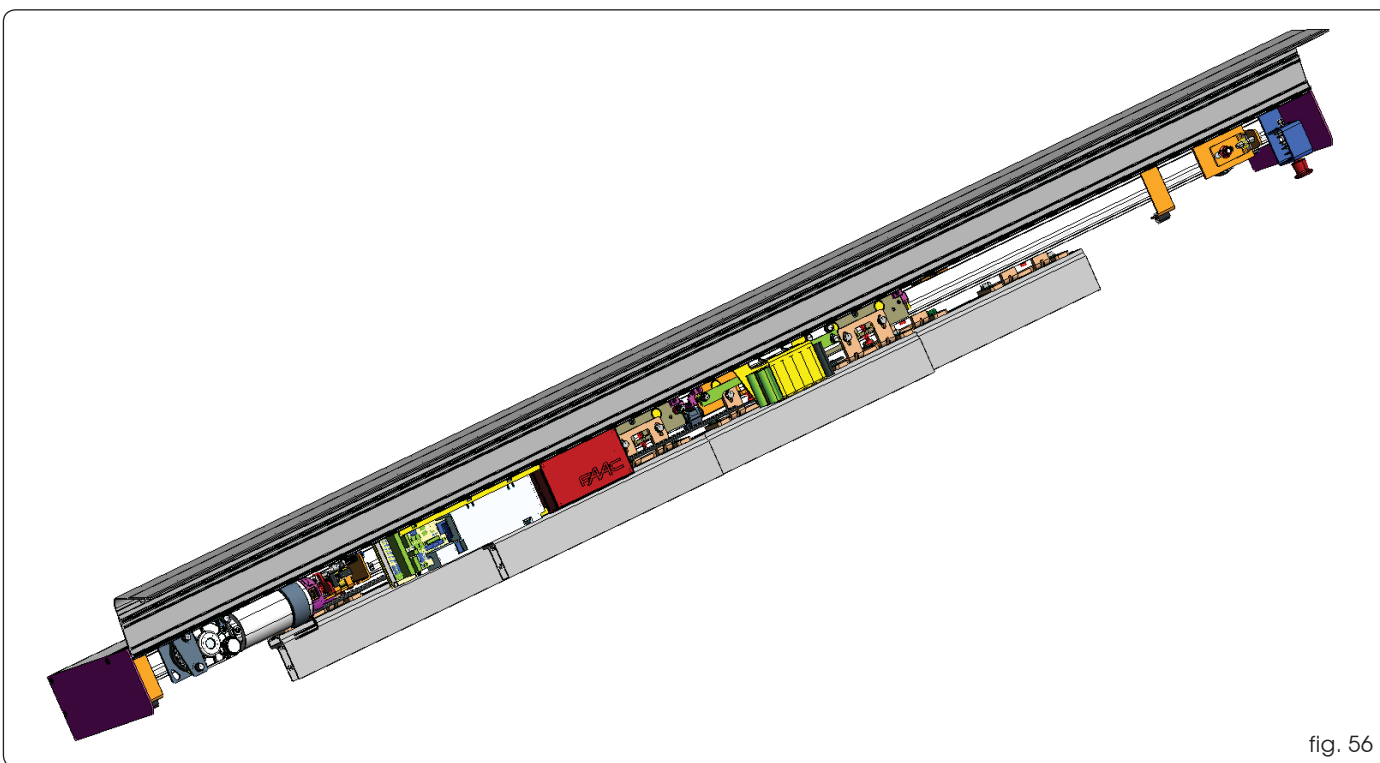


fig. 56

SECURING THE ON-WALL SUPPORT PROFILE

Refer to chapter A of the kit automated system installation.

21 A140 AIR-T FREE-STANDING KIT

A140 AIR-T Free-standing consists of a support profile and of another profile which grants the free-standing feature.

The cross beam can be secured to both ends using the "Side fastening bracket kit".

The free-standing profile, when fixed to the ends, is guaranteed up to a maximum length of 3000 mm; for greater lengths the cross beam needs to be secured also in intermediate positions using the tie-rods in the relevant slots.

It is used when the cross beam cannot be completely secured to a bearing structure or when the surface is not even.

Free-standing profile – wall-mounted

- Drill a series of holes on the free-standing profile in the position indicated in fig.57 at a distance of approx. 200mm between each other.

- Determine the exact position of the free-standing profile taking into consideration the overall dimensions of fig. 57 ①.

The cross beam must be secured parallel to the floor.

- Secure the free-standing cross beam to one end.

Lift the cross beam and level it parallel to the floor.

Secure the other end.

Secure centrally by lifting the cross beam with strength in order to align the three fastening points fig.57.

Free-standing profile – fastening with side brackets

The cross beam of the automated system with the free-standing profile can be secured to both ends by using the side brackets accessory. fig. 57.

- Determine the exact position of the cross beam taking into consideration the overall dimensions indicated in fig. 57.

- Assemble the support profile to the free-standing profile by inserting the relevant tie-rods, then screw the nuts without tightening them.

Secure the side plates on the cross beam in the following way:

- Position the plates in the relevant seats and secure the side plates using the three fastening screws M8. fig.57

- Lock the tie-rods in the relevant seats using their nuts.

- Fix the side plates using suitable dowels (not standard-supplied)

According to the length of the cross beam, intermediate fastening points can be necessary (on wall or on ceiling according to the case):

from 3000 to 4000 mm a central fastening is required.

from 4000 to 6100 mm two intermediate fastening points are required. A central fastening is in any case recommended also for a length below 3000 mm.

⚠ Warning: Installation of the side brackets requires cutting of the profile and telescopic bar measuring less than 45 mm per side, compared to the head profile LT.

ENGLISH

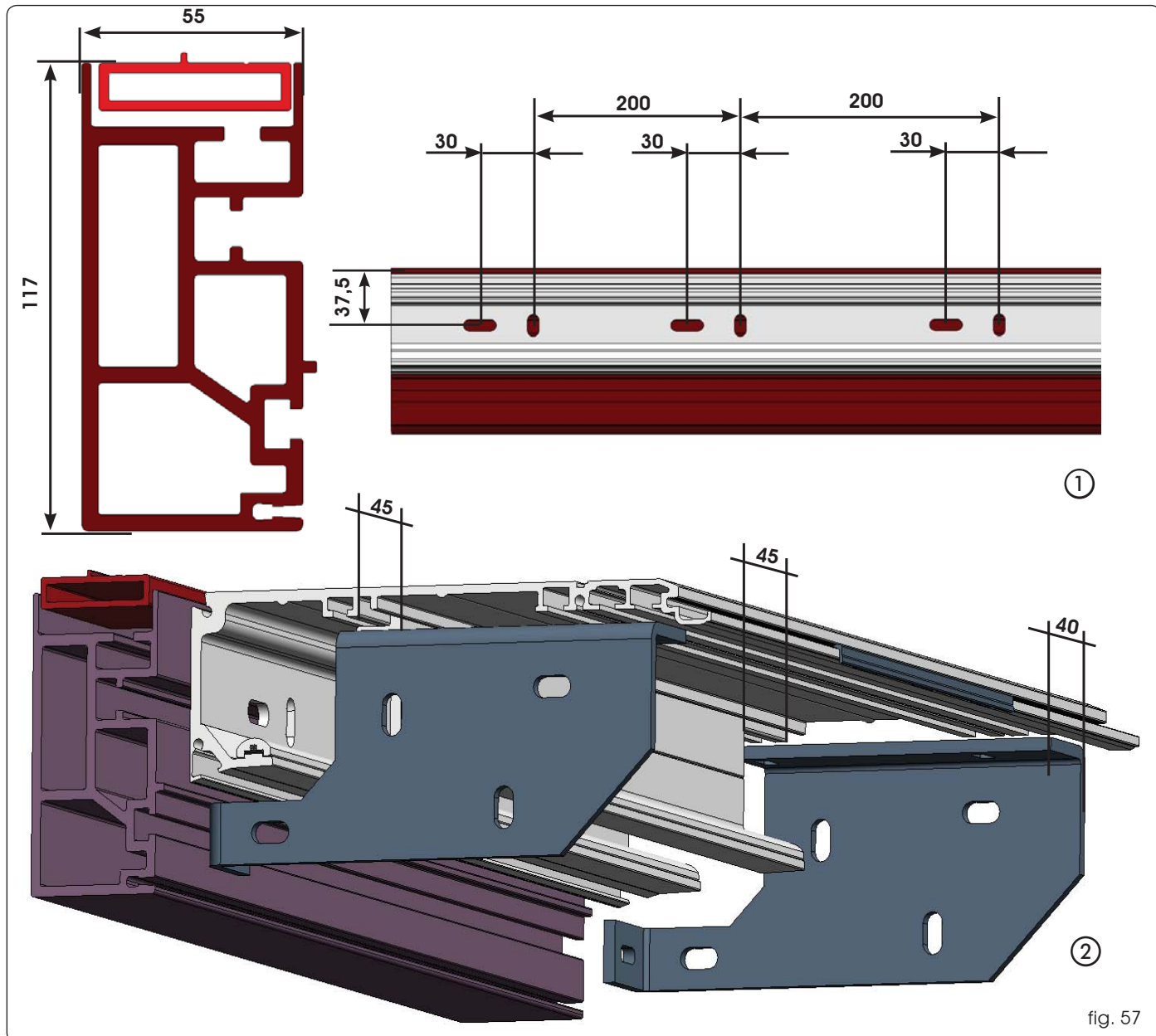


fig. 57

INSTALLING AN ASSEMBLED AUTOMATED SYSTEM

The free-standing profile is supplied already assembled to the support profile and with side brackets already fitted on the cross beam fig.58

- Secure the cross beam to the wall using the holes on the side plates (fig. 57. ②) and by means of suitable dowels (not standard-supplied).

According to the cross beam length, intermediate fastening operations can be required and executed by means of the guide shown in fig.57.

A central fastening is in any case recommended also for a length below 3000mm.

If you prefer, a fastening to the wall can be performed but the free-standing profile is not prepared for this.

To drill, follow the instructions below:

- 1) Remove the side brackets
- 2) Disassemble the support profile from the free-standing profile.
- 3) Drill the necessary holes on the free-standing profile in the position shown in fig.57 ①.

ENGLISH

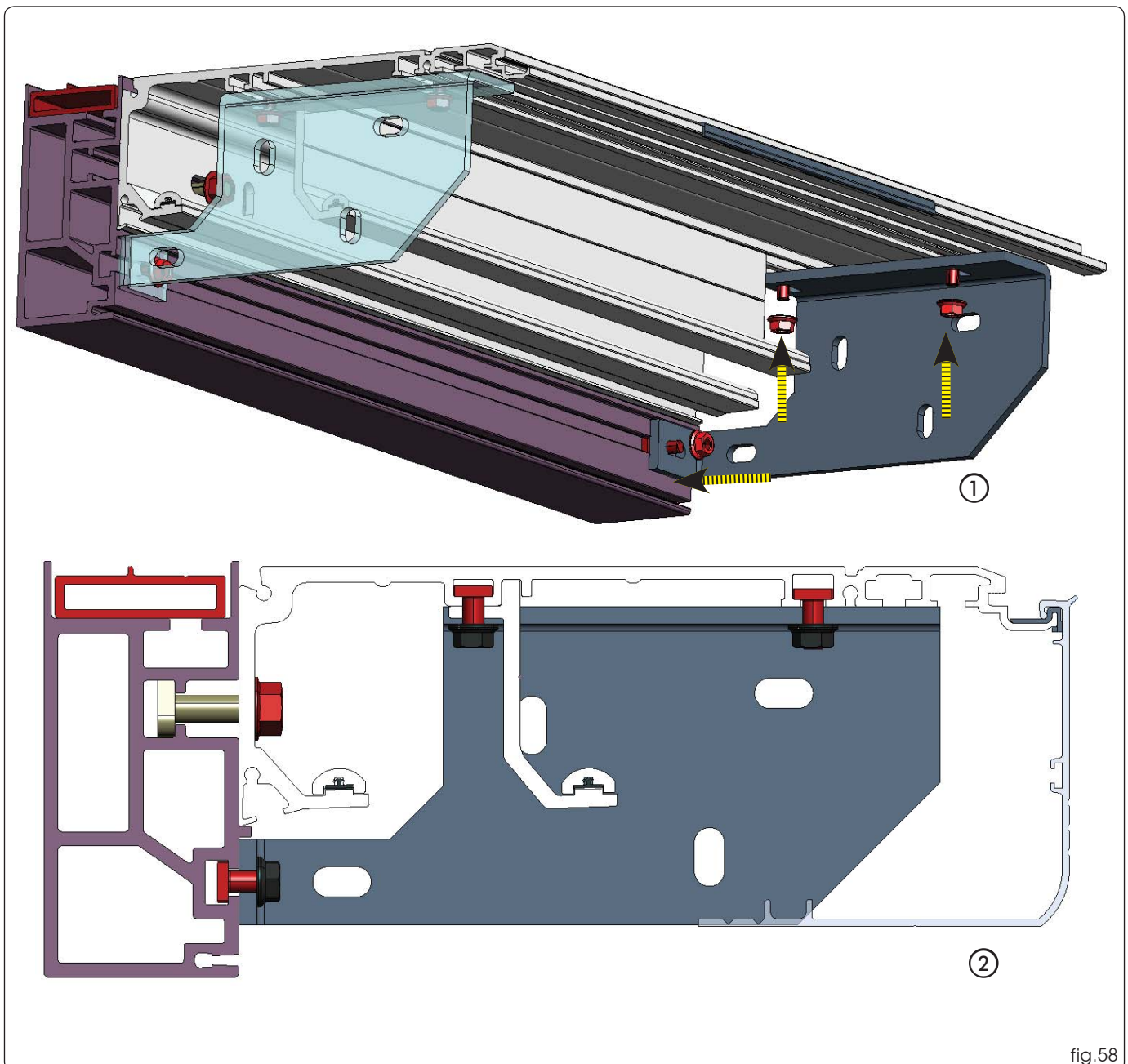
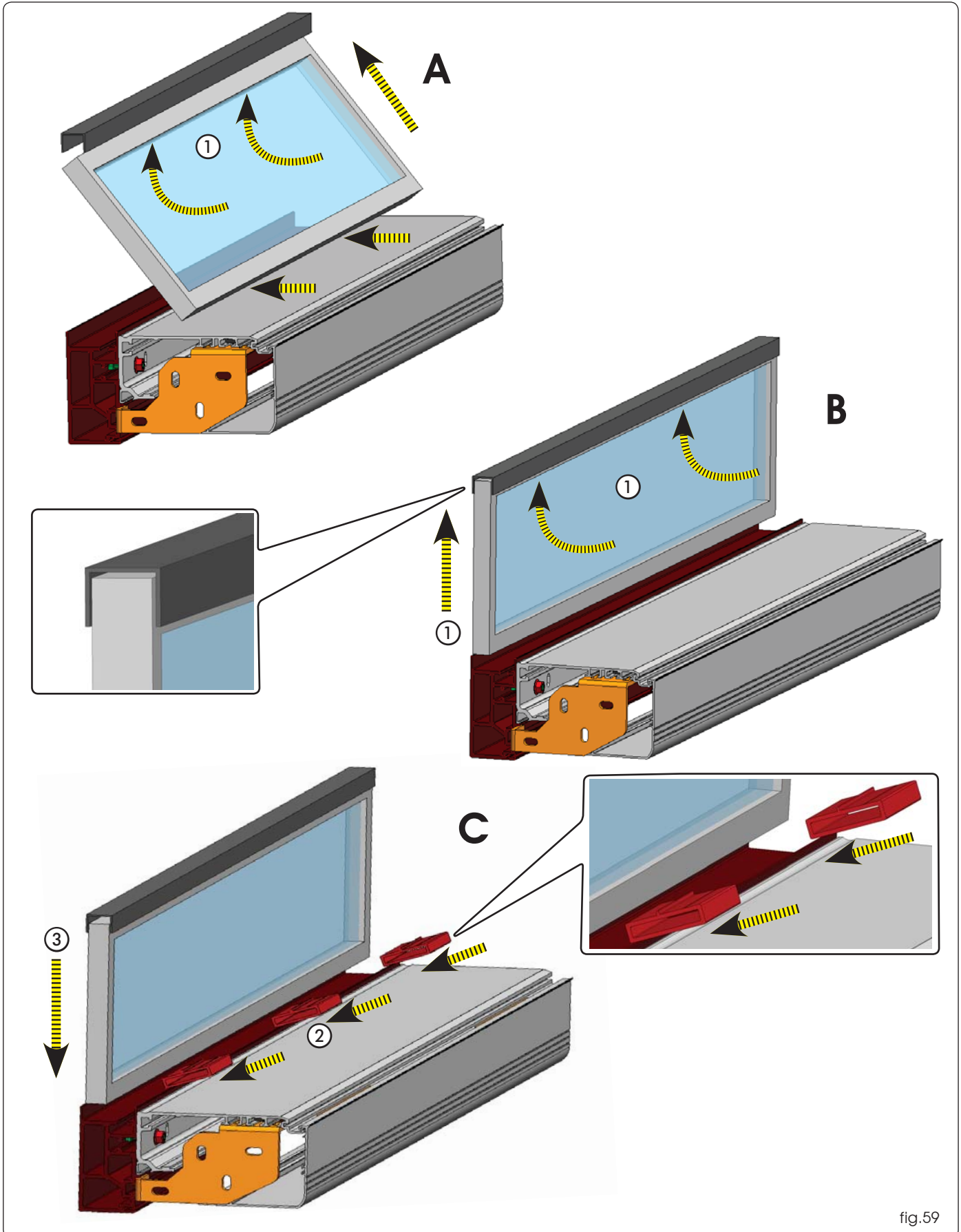


fig.58

22 A140 AIR-T FREE-STANDING TRANSOM FITTING

A140 AIR-T Free-standing can be used with the transom profile.
Fit the glass leaf that must be inserted into the upper profile
fig.59 ① A,B.
Then insert the transom profiles, uniformly spaced, in the bottom of
the glass leaf fig.59 ② ③ C.



ENGLISH

fig.59

Let the glass leaf come down and rest it on the transom profiles
fig. 60 ④ D

Use a tie-rod in the central part of the cross beam fig.60 ⑤ E (not
supplied by FAAC) to avoid bending of the cross beam central
part.

ENGLISH

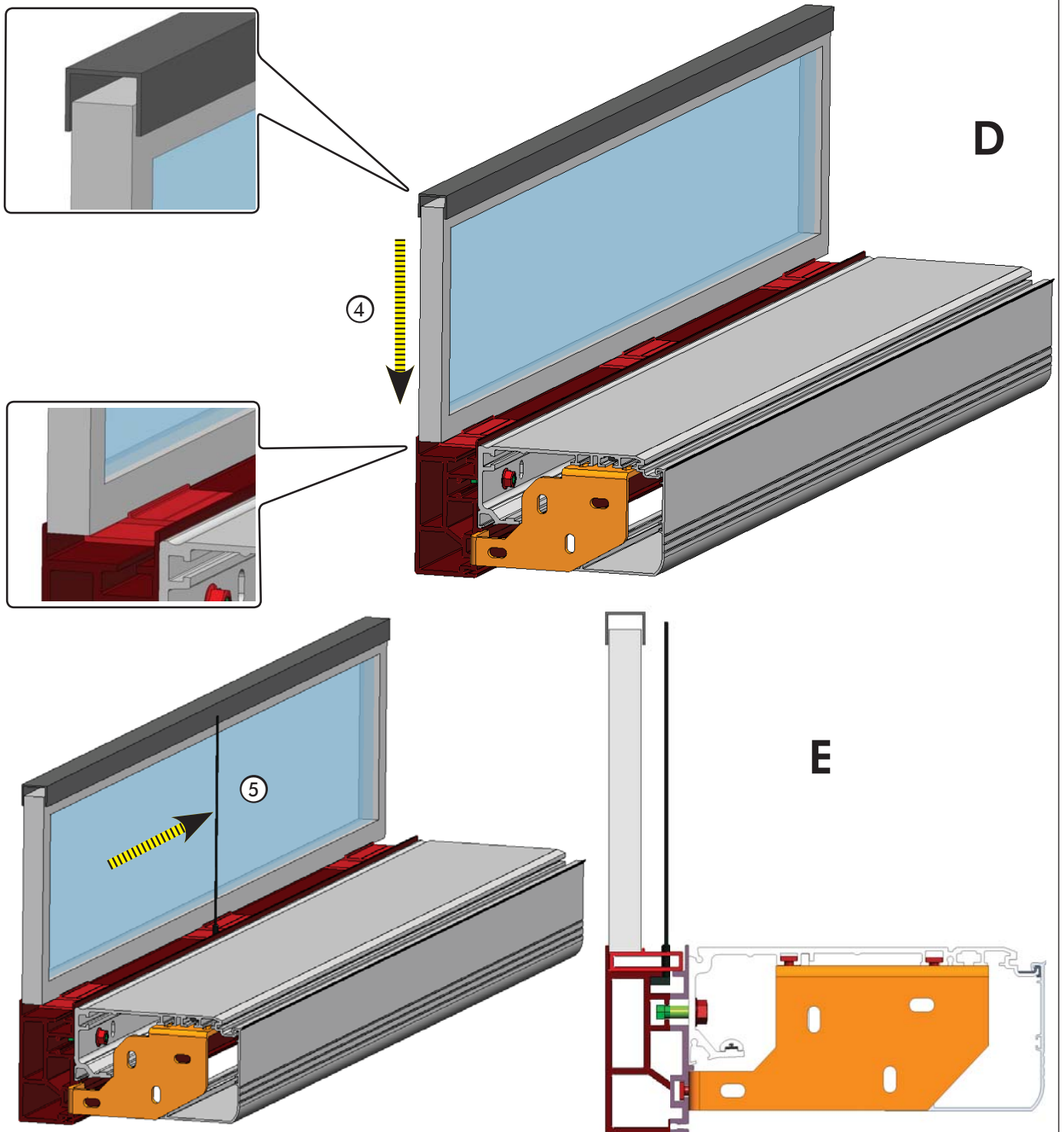
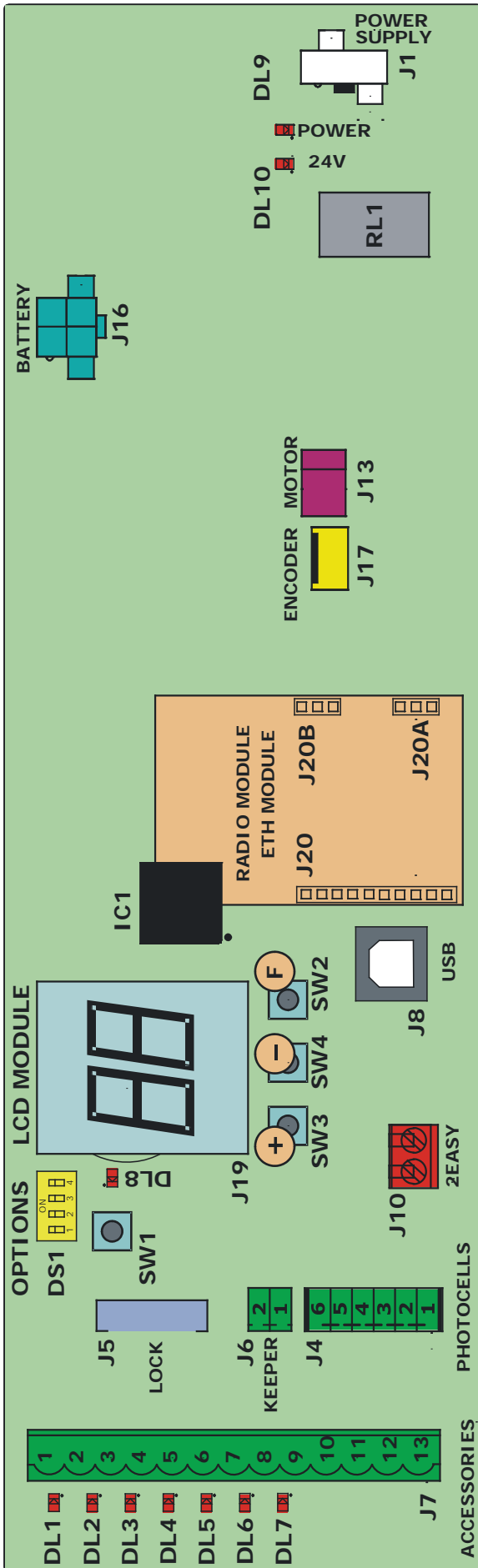


fig. 60

E100 - E140 CONTROL BOARD



CONNECTOR	MEANING
J1	Main power supply 36V 4A
J4	Button photocells XF A
J5	Motor lock
J6	SD-Keeper - SDK Light
J7	Inputs and power supply for accessories
J8	USB port for connection to PC
J10	BUS - 2 EASY (for future use)
J13	Motor
J16	Emergency battery
J17	Motor encoder
J18-J19	LCD Display
J20-J20A-J20B	Optional modules: - radio module (for E100 e E140) - Eth module (only for E140)

LED	ON	OFF
DL1 (I-DET)	input I-DET closed	input I-DET open
DL2 (E-DET)	input E-DET closed	input E-DET open
DL3 (KEY)	input KEY closed	input Key open
DL4 (EM1)	input EMERG.1 closed	input EMERG.1 open
DL5 (EM2)	input EMERG.2 closed	input EMERG.2 open
DL6 (P1)	input P 1 closed	input P 1 open
DL7 (P2)	input P 2 closed	input P 2 open
DL8 (ERROR)	see table below	
POWER	Mains power supply ON	Mains power supply OFF
24V=	+ 24V= present	+ 24V= absent

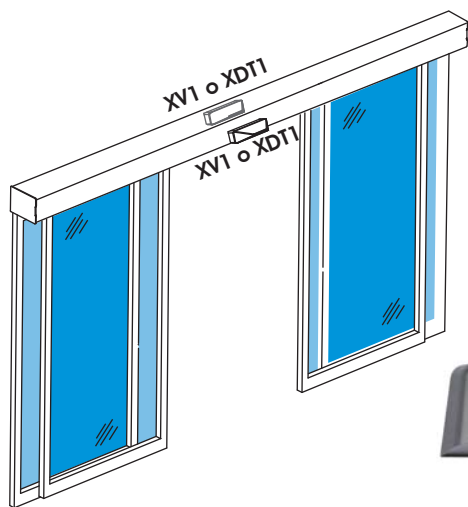
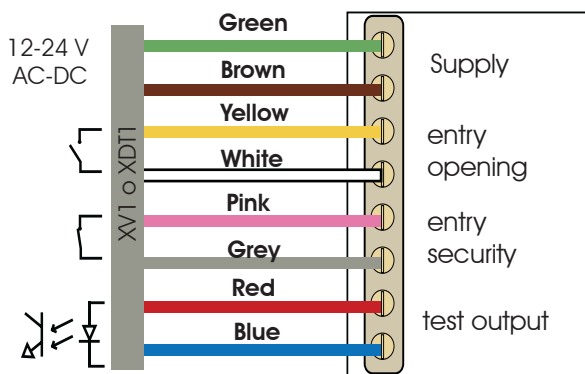
LED ERROR STATUS	MEANING
OFF	normal operating condition
ON	microprocessor E140 control board broken
FLASHING	power-on

PUSH-BUTTON	MEANING
SW1	executes automatic SETUP / RESET
SW2	"F" programming push-button
SW3	"+" Programming push-button
SW4	"-" Programming push-buttons

DS1	ON	OFF
Dip n°1	Pair of button photocells No. 1 present	Pair of button photocells No. 1 absent
Dip n°2	Pair of button photocells No. 2 present	Pair of button photocells No. 2 absent
Dip n°3	EMERG2 activates NIGHT function	EMERG2 standard function
Dip n°4	motor rotation direction (see table)	

Connection of safety detector XV1 o XDT1

The XV1 o XDT1 sensor is a monitored opening and closing safety detector, conforming to the EN16005 standard. Below are the connections of 2 sensors on J7 connector automatic door board:

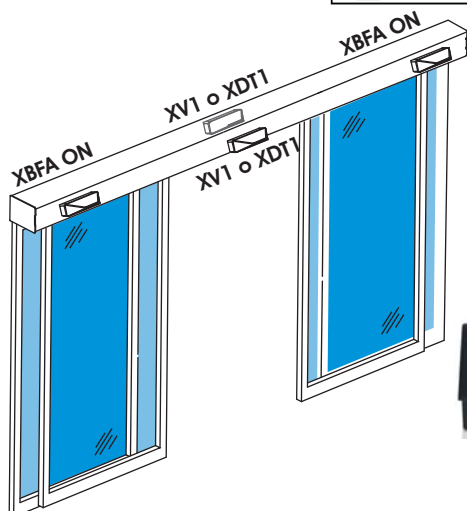
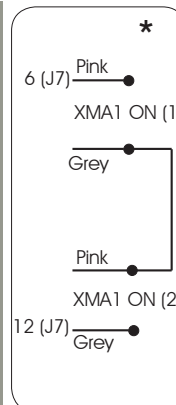
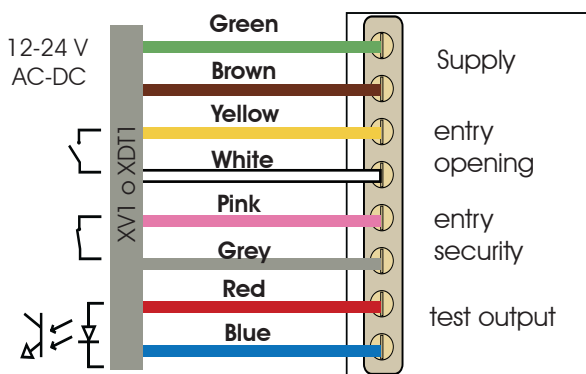


Programming from Display
for 2 XV1 o XDT1 sensors con-
nected on inputs P1 and P2:

P1=Cc
IF=Y
P2=Cc
ZF=Y

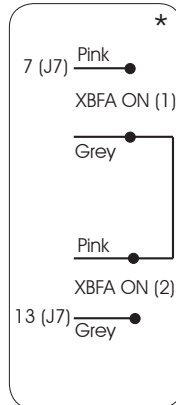
Connection of XV1 o XDT1 and XBFA ON safety detectors

The XV1 o XDT1 sensor is a monitored opening and closing safety detector and the XBFA ON sensor is a monitored opening safety detector, compliant with the EN16005 standard. Below are the connections of 2 sensors on J7 connector automatic door board:



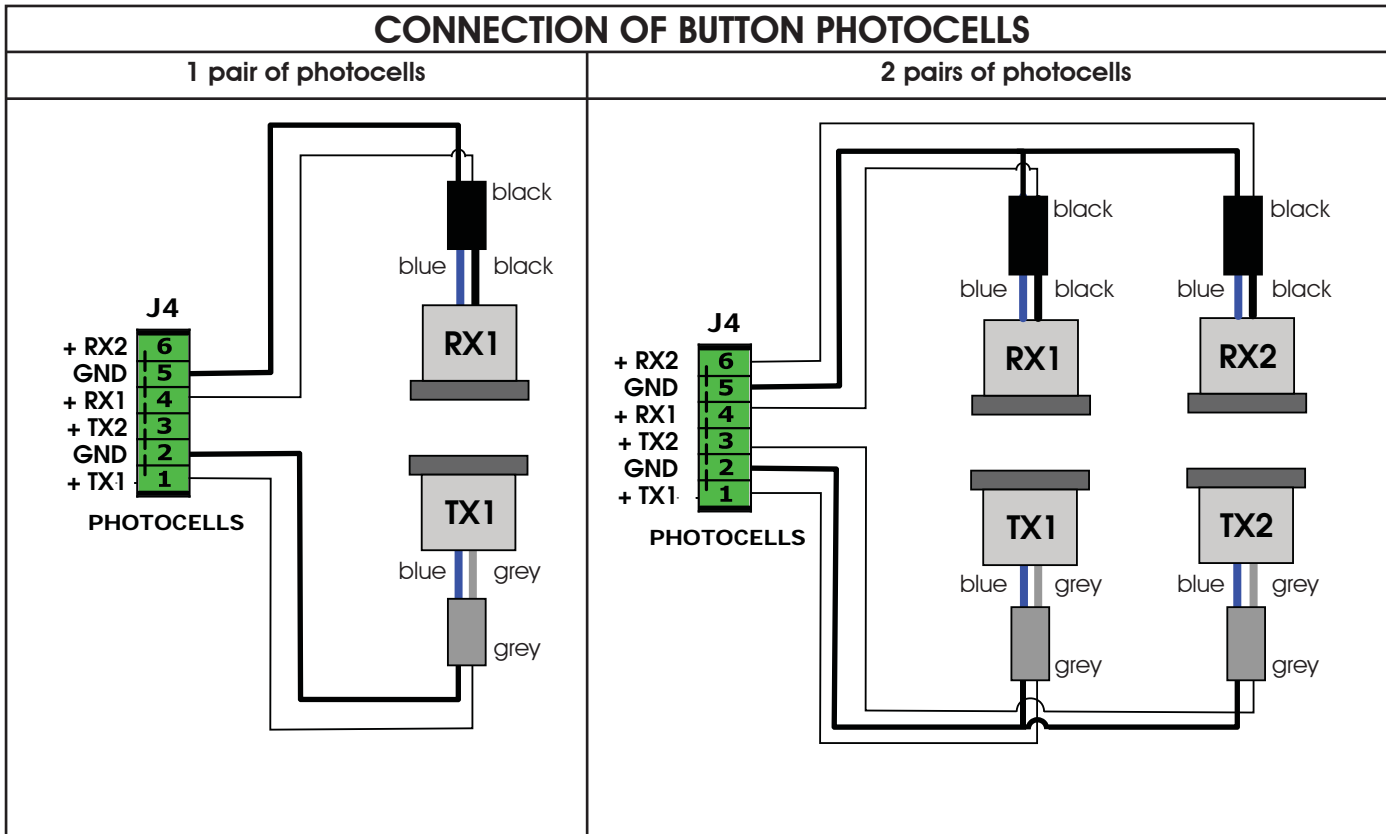
Programming from Display
for 2 XV1 o XDT1 sensors seri-
ally connected on input P1 and 2 XBFA ON sensors in series
on input P2 :

P1=Cc
IF=Y
P2=0c
ZF=Y



Connection terminal J4

! For extra-European countries where the EN16005 standard is not in force, it is possible to continue using photocells and traditional sensors.
Warning : photocells are not permitted as a safety device in the countries of the European community where the EN16005 standard is in force. Specifically, photocells are considered as auxiliary devices, complementary to safety. Below are the connections on automatic door board:



ENGLISH

- If you are not using any pair of photocells, leave the inputs of connector J4 free.
- The button photocells are constantly monitored by the electronic control board of the door. The board controls correct operation of the door at every movement.
- The colours of the button photocell (heads) cables are:
 receiver: black/blue
 transmitter: grey/blue
- The colours of the button photocells sheaths are:
 receiver: black
 transmitter: grey

Terminal-board J4

- 1 TX1**
Connection to transmitter of 1st pair of button photocells
- 2 TX GND**
Negative connection for button photocells transmitters
- 3 TX2**
Connection to transmitter of 2nd pair of button photocells.
- 4 RX1**
Connection to receiver of 1st pair of button photocells.
- 5 RX GND**
Negative connection for button photocells receivers
- 6 RX2**
Connection to receiver of 2nd pair of button photocells.

The following configurations are possible if using button photocells: (Ref. **DIP-SWITCH PROGRAMMING**)

- NO PHOTOCELL**
 - Position dip-switches 1 and 2 of DS1 to OFF.
 - Leave the relevant inputs free on J4
- 1 PHOTOCELL**
 - Position dip-switch 1 or 2 to ON in according to input used and other dip-switch to OFF.
 - Leave inputs not used free on J4 .
- 2 PHOTOCELL**
 - Position dip-switches 1 and 2 of DS1 to ON.
 - Connect the photocells as shown in the lay-outs

SETUP

The following parameters are checked and adjusted during the Setup cycle:

- measurement of masses and friction, setting of speeds, plus optimal acceleration and deceleration;
- acquisition of open and closed door positions;
- self-setting of the anti-crushing system at opening/closing according to selected speeds.

During Setup, on the display flashes status 08 until the end of the process if correctly executed.

Any faults are signalled by the display and by the diagnostics via SD-Keeper.

Detection of serious faults (e.g. insufficient or excessive leaf travel, too much friction, motor malfunctions) is signalled by the display and by the diagnostics via SD-Keeper.

To activate a new Setup procedure, press and release the SW1 push-button on the board for more than 5 seconds and then release it; Setup can also be started by a combination of push-buttons on SD-Keeper (see relevant instructions).

The following are the situations in which, if required, the Setup cycle is not executed, and the door stays in shut-down state, generating an alarm signal (ALARM 15 on the display and on SD-Keeper):

- door powered by battery;
- NIGHT operating function selected;
- MANUAL operating function selected;
- an emergency input is active;
- photocells engaged;
- no power supplied to motor.
- external or internal release activated

When the cause has been eliminated, the Setup starts automatically.

RESET

Whenever the automated system is powered, the door executes a Reset cycle during which:

- the door's travel limit positions are sought;
- any alarm signals are reset.

To activate a new Reset procedure, press the SW1 push-button on the board for 1 second; Reset can also be started by a combination of push-buttons on SD-Keeper (see relevant instructions).

If a Reset is commanded while the door is in "Manual" mode, it is executed when this operating function is exited.

In the "Night" operating function, Reset consists of a slow closing movement, whereas it is normally a slow opening movement.

The reset procedure is necessary following the occurrence of certain conditions causing the door to stop operating:

- after an obstacle is detected on 3 successive occasions during closing/opening when the function NO STANDARD OBSTACLE DETECTION (ALARM 8 or ALARM 9) has been activated;
- after a "with memory"-configured emergency command has been activated (see programming instructions), (ALARM 6 or ALARM 7);
- if, when using a motor lock kit, an opening malfunction is detected on the kit.

DESCRIPTION OF TERMINALS

TERMINAL BOARD J7

1 I-DET (NO contact default)

Internal sensor input.
By using SD-Keeper with Display (Accessory), you can modify the polarity of the contact to N.C.

2 E-DET (NO contact default)

External sensor input.
By using SD-Keeper with Display (Accessory), you can modify the polarity of the contact to N.C.

3 KEY (NO contact default)

Key command:
activation causes the door to open, closing it after night pause time.
By using SD-Keeper with Display (Accessory), you can modify the polarity of the contact to N.C.

4 EMERG1 (NO contact default)

Emergency command 1:
in the standard setting, activation causes the door to stop (for as long as it is maintained active, the door stays in stop condition).
By using SD-Keeper with Display (Accessory), you can program the operation of this input in a different way (see programming instructions).

 **the EMERG1 command has priority over EMERG2**

5 EMERG2 (NO contact default)

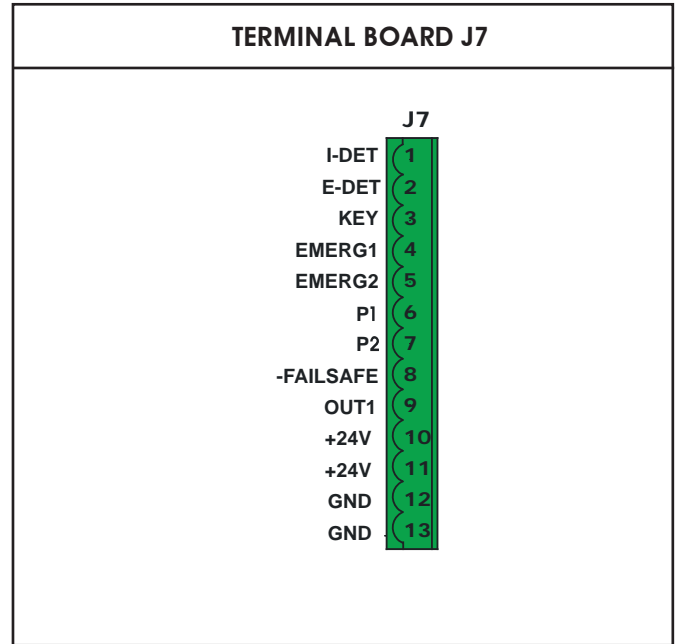
Emergency command 2:
in the standard setting, activation causes the door to open (for as long as it is maintained active, the door stays open).
By using SD-Keeper with Display (Accessory), you can program the operation of this input in a different way (see programming instructions).

6 PROTECTION 1

Protection 1 input.
Use monitored safety devices that comply with EN1 6005 standard.

7 PROTECTION 2

Protection 2 input.
Use monitored safety devices that comply with EN1 6005 standard.



8 -FAIL-SAFE
Negative for powering monitoring sensors.

9 OUT 1 ("gong" default)
Output (negative) of open-collector (max 100mA).
In the standard setting, this output is active when the photocells are shadowed for 1 sec. at intervals of 0.5 sec. until disengagement.
By using SD-Keeper with Display (Accessory), you can program the operation of this output in a different way (see programming instructions).

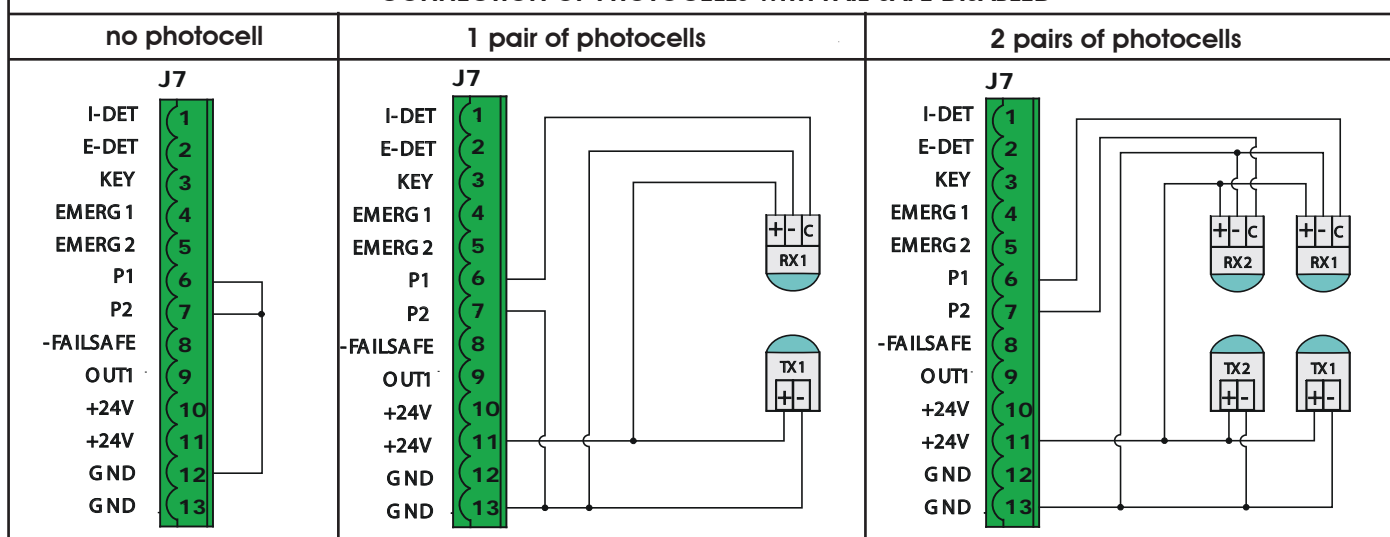
10-11 +24V=
+24V= for powering accessories
The maximum total load of the accessories connected to inputs "+24V=" must not exceed 1 A.

12-13 GND
Negative for powering accessories and common contact.

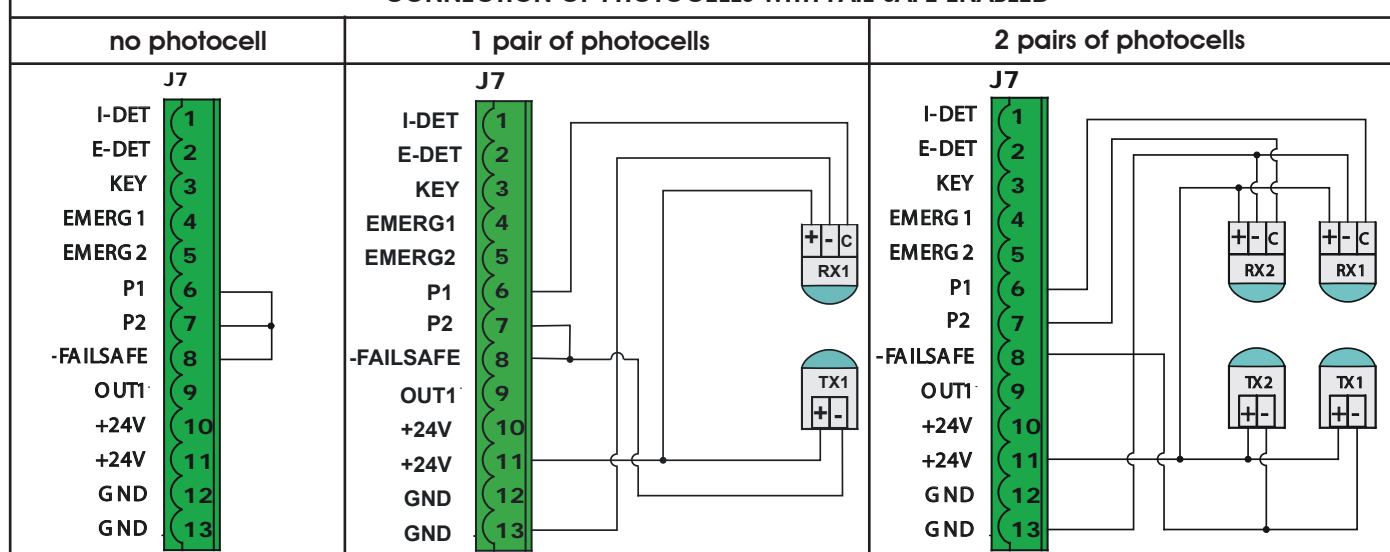
ENGLISH

! For extra-European countries where the EN16005 standard is not in force, it is possible to continue using photocells and traditional sensors.
Warning : photocells are not permitted as a safety device in the countries of the European community where the EN16005 standard is in force. Specifically, photocells are considered as auxiliary devices, complementary to safety. Below are the connections on automatic door board:

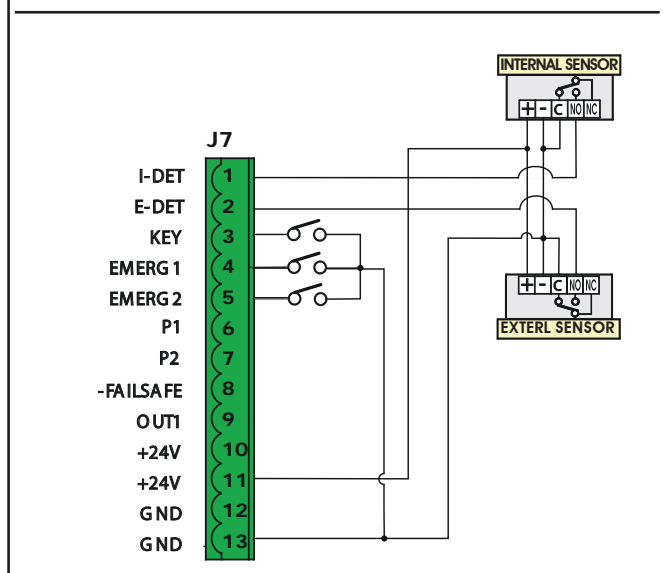
CONNECTION OF PHOTOCELLS WITH FAIL-SAFE DISABLED



CONNECTION OF PHOTOCELLS WITH FAIL-SAFE ENABLED



TERMINAL BOARD J7



PHOTOCELLS

Two types of photocells can be connected to the door: the traditional ones to be connected to connector J7 (inputs P1 and P2 with N.C. or N.O. contact) and those with a button for connection to connector J4. The following configurations are possible if using traditional photocells:

NO PHOTOCELL

- In the standard configuration, P1 and P2 inputs must be jumper connected to the FAIL-SAFE terminal;
- for the Display, as an alternative, the P1 and P2 inputs can be disabled, thus avoiding the jumpers.

1 PHOTOCELL

- In the standard configuration, the photocell must be connected to the P1 input, while P2 must be jumper connected to the FAIL-SAFE terminal;
- for the Display, as an alternative, one photocell only can be set (connecting it to the P1 input as usual), thus disabling the P2 input and avoiding the jumper .


2 PHOTOCELLS


- connect the photocells to the P1 and P2 inputs.

DIP-SWITCH PROGRAMMING

Set the DS1 dip-switch as follows:

N° DIP-SWITCH	ON	OFF
1	Button photocell 1 active	Button photocell 1 disabled
2	Button photocell 2 active	Button photocell 2 disabled
3	EMERG2 activates NIGHT function	EMERG2 standard function
4	Single leaf door with right opening	Double leaf door or Single leaf door with left opening

 **To find out the closing direction, look at the cross-beam of the automated system from the front and:**
 - for the double leaf, the left leaf is connected to the low branch of the belt;
 - for the single leaf, the leaf is always connected to the low branch of the belt.

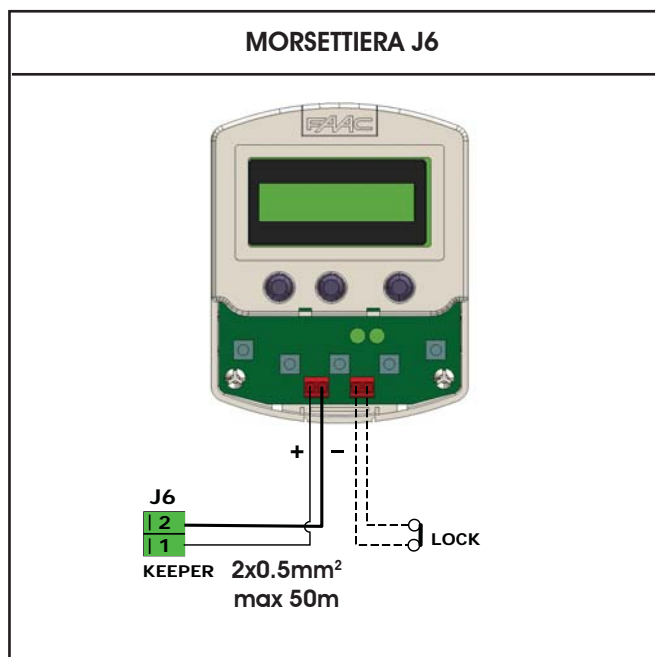
 **Activating the dip-switch no. 3 the polarity of the EMERG2 input is forced to NORMAL OPEN and the contact closing activates the NIGHT function independently of the SD-Keeper settings.**

Terminal-board J6

1-2 SD-KEEPER

SD-Keeper connection terminals (cable 2x0.5mm² max 50m).

 **Respect the indicated polarity:**
Terminal 1 = positive Terminal 2 = negative



START-UP

The first time the door is powered, the control board automatically executes a setup procedure and loads all the standard configuration settings.

STANDARD CONFIGURATION

The standard configuration is as follows:

- AUTOMATIC "-TOTAL"- "TWO-WAY"; operating function; (maximum OPENING SPEED (level 10));
- CLOSING SPEED level 3;
- EMERG1 emergency input configured as a "no memory" NO contact, i.e. when activated, it causes the movement to stop and the door remains open in stop status for as long as the contact is maintained;
- EMERG2 emergency input configured as a "no memory" NO contact, i.e. when activated, it causes opening at normal speed and the door remains open for as long as the contact is maintained;
- Protection 1 and Protection 2 are configured in Cc
- sensor monitoring enabled
- pause time 2 sec.;
- NIGHT PAUSE time 8 sec.;
- motor lock kit enabled for standard operation (tripped only in NIGHT mode);
- Kit for supervising motor lock is not enabled;
- BATTERY KIT not enabled;
- OUT1 output with GONG function;
- partial opening set at 50%;
- Low DECELERATION SPEED;
- Standard OBSTACLE DETECTION: if an obstacle is recognised at opening or closing, the door reverses and continuously attempts to move until the obstacle is removed, without generating an alarm signal;
- two sensors with NO contact are provided (one internal, the other external);
- NO type KEY contact;
- INTERLOCK function not activated;
- TIMER not activated.

ENGLISH

SPEED CHANGES

There are 10 speed adjustment levels for opening and closing. Level 10 refers to the maximum speed permitted by door weight, whereas level 1 refers to the corresponding minimum speed. The OPENING and CLOSING speeds can be adjusted directly on the board (entering programming).

BEHAVIOUR UNDER DIFFERENT OPERATING FUNCTIONS

ENGLISH

OPERATING FUNCTION	DOOR STATUS	INTERNAL SENSOR (I-DET)	EXTERNAL SENSOR (E-DET)	KEY	EMERGENCY OPENING (EMERG 2) (1)	EMERGENCY CLOSING (1)
MANUAL	IN ANY POSITION	no effect	no effect	no effect	no effect	no effect
TOTALLY OPEN	OPEN	no effect	no effect	no effect	no effect	immediate closing
TOTAL AUTOMATIC TWO-WAY	OPEN	restarts pause time count	restarts pause time count	starts night pause time count	starts pause time count	immediate closing
	CLOSED	total opening and re-closing after pause time	total opening and re-closing after pause time	total opening and re-closing after night pause time	total opening	no effect
PARTIAL AUTOMATIC TWO-WAY	PARTIALLY OPEN	restarts pause time count	restarts pause time count	starts night pause time count	total opening	immediate closing
	CLOSED	partial opening and re-closing after pause time	partial opening and re-closing after pause time	partial opening and re-closing after night pause time	total opening	no effect
TOTAL AUTOMATIC ONE WAY	OPEN	restarts pause time count	no effect	starts night pause time count	starts pause time count	immediate closing
	CLOSED	total opening and re-closing after pause time	no effect	total opening and re-closing after night pause time	total opening	no effect
PARTIAL AUTOMATIC ONE WAY	PARTIALLY OPEN	restarts pause time count	no effect	starts night pause time count	total opening	immediate closing
	CLOSED	partial opening and re-closing after pause time	no effect	partial opening and re-closing after night pause time	total opening	no effect
TOTAL NIGHT	CLOSED	no effect	no effect	total opening and re-closing after night pause time	total opening	no effect
PARTIAL NIGHT	CLOSED	no effect	no effect	partial opening and re-closing after night pause time	total opening	no effect

- (1) Emerg1 and Emerg 2 inputs can be programmed with SD- Keeper+Display to obtain:
- emergency opening;
 - emergency closing;
 - stop.

- Furthermore, command activation can be programmed:
- with no memory (when the command is de-activated, the door resumes normal operation);
 - with memory (when the command is de-activated, a Reset is necessary to restore normal operation).

This is the default configuration:
 Emerg1 ---> Stop/no memory
 A pulse (function not shown in the table) causes immediate stop followed by slow re-closing after pause time (night pause time if the Night operating function was set).
 Emerg2 ---> Emergency opening/no memory:
 A pulse causes opening followed by re-closing after pause time.
 Emergency commands have priority over all others.

DESCRIPTION AND USE OF ENERGY SAVING



1) Function description:

An automated system that can operate in "Energy Saving" mode. Thanks to this operating mode the system is able to recognize the pedestrian direction (approaching, leaving or side transit) and, as a consequence, to limit false opening operations and reduce opening/closing times.

2) Compulsory use mode:

The "Energy Saving" function can only be enabled together with the XV1 o XDT1 double-technology presence and pulse detectors.

⚠ Important : A detector only is not sufficient to activate the " Energy Saving " function.
The described function can only be activated with XV1 o XDT1 internal and external sensor.
The passage width VP max. for an XV1 o XDT1 sensor in order to use the Energy Saving function is 2mt.
For a passage width VP over 2mt., use 2 XV1 o XDT1 side-by-side sensors with a different frequency and configured as indicated in XV1 o XDT1 manual

3) Use instructions

To guarantee maximum safety the use instructions of XV1 o XDT1 sensor must be carefully observed.

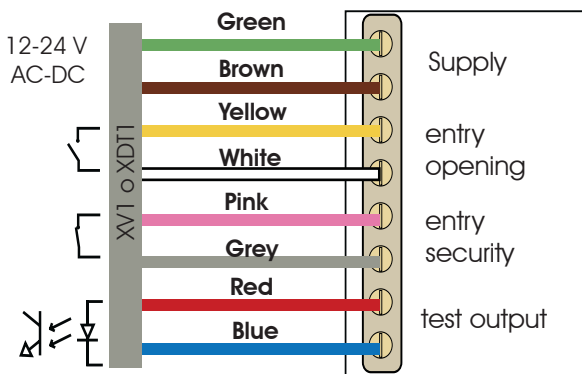
For any depth adjustment operations, use the **Spotfinder detector**.

This accessory device enables you to detect the position of the infrared field curtains for spot so exactly that you can adjust both the command-pulse area and the safety area on the passage width of our XV1 o XDT1 active infrared sensors in a precise manner.

For any further explanation, consult the use manual of the XV1 o XDT1 sensor.

4) " Energy Saving " function activation mode.

To activate the " Energy Saving " function you need to reach parameter PA on the board display and set it to NO or use the SD-KEEPER with DISPLAY and, when in programming mode, select: Menu 2 SETUP ----> 2.2 Pause time ---->Off



ENGLISH

The EN16005 standard in force in European Community countries provides for the use of monitored devices or machine operation in **LOW ENERGY** mode.

The **LOW ENERGY** mode provides for a limitation of the maximum kinetic energy of the leaf and forces.

Table 1 provides an indication of the maximum speed settable on the electronic board based on the mass of the leaf.

In any case it is necessary to verify that the set speed value ensures compliance with EN16005.

For more details, please refer to standard EN16005.

Table 1 below shows the mass of the leaf and the speed to be set with reference to the mass.

The setting of the maximum force on opening and closing on the board must not be higher than 5.

 **WARNING:**

Operation at low energy must not be used when a large proportion of users are elderly, infirm, disabled or children. In this case contact of the door with the user is UNACCEPTABLE:

In these cases special monitored sensors must be used or suitable mechanical protection devices or sensors (for opening only)

Mass (Kg)	Setting Speed
10	9
20	8
30	7
40	6
50	6
60	5
70	5
80	5
90	4
100	4
110	4
120	4
130	4
140	4
150	4
160	3
170	3
180	3
190	3
200	3
210	3
220	3
230	3
240	3

TAB.1

Table 2 below indicates the minimum stroke time per leaf referred to door mass and leaf stroke as per standard EN16005 :

90% of the stroke leaf D [m]	Leaf Mass															
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
	Minimum time stroke															
0,7	1,3	1,8	2,1	2,5	2,7	3,0	3,2	3,5	3,7	3,9	4,0	4,2	4,4	4,6	4,7	
0,8	1,4	2,0	2,4	2,8	3,1	3,4	3,7	3,9	4,2	4,4	4,6	4,8	5,0	5,2	5,4	
0,9	1,6	2,2	2,7	3,1	3,5	3,8	4,1	4,4	4,7	4,9	5,2	5,4	5,6	5,8	6,0	
1,0	1,8	2,5	3,0	3,5	3,9	4,3	4,6	4,9	5,2	5,5	5,8	6,0	6,3	6,5	6,7	
1,1	1,9	2,7	3,3	3,8	4,3	4,7	5,1	5,4	5,7	6,0	6,3	6,6	6,9	7,1	7,4	
1,2	2,1	3,0	3,6	4,2	4,7	5,1	5,5	5,9	6,2	6,6	6,9	7,2	7,5	7,8	8,0	
1,3	2,3	3,2	3,9	4,5	5	5,5	6,0	6,4	6,8	7,1	7,5	7,8	8,1	8,4	8,7	
1,4	2,5	3,5	4,2	4,9	5,4	5,9	6,4	6,9	7,3	7,7	8,0	8,4	8,7	9,1	9,4	
1,5	2,6	3,7	4,5	5,2	5,8	6,4	6,9	7,3	7,8	8,2	8,6	9,0	9,4	9,7	10	

TAB.2

Values higher than those indicated in the table are obtained by interpolation as indicated by the EN16005 standard.

PROGRAMMING THE E100 - E140 BOARD rev.4.5		
Display	Function	Default
Pn	Disactivation & Pause time Parameter to disactivate the pause time and set the pause time in the "automatic" operating mode. Adjustable from NO, to disactivate the pause time, it can be set from 0 to 30 sec. in one-second steps. Adjustment: NO,0,1,3,4,5,.....30	2
Pn	Night Pause Time Sets pause time in the night operating mode. Can be adjusted from 2 to 58 sec. in two-second steps. Next, the viewing changes in minutes and tenths of a second (separated by a dot) and time is adjusted in 10-second steps up to the maximum value of 4.0 minutes. E.g.: if the display shows 2.5, the pause time will be 2 min and 50 sec.	8
Cs	Closing speed Sets the speed level of the door during closing. Adjustment: from 1 to 10	3
Os	Opening speed Sets the speed level of the door during opening. Adjustment: from 1 to 10	10
P1 (*)	Protection 1 no protection not enabled Cc closing protection, contact NC Co closing protection, contact NO Oc opening protection contact NC Oo opening protection, contact NO	Cc
IF	Failsafe 1 no sensor monitoring not enabled y sensor monitoring enabled	y
P2	Protection 2 no protection not enabled Cc closing protection, contact NC Co closing protection, contact NO Oc opening protection contact NC Oo opening protection, contact NO	Cc
2F	Failsafe 2 no sensor monitoring not enabled y sensor monitoring enabled	y
Ot (**)	Opening protection Sets operation of the opening protection 1 when the safety device is engaged on opening the leaf stops. 2 when the safety device is engaged on leaf opening, the opening motion continues at low speed.	1
dr	Deceleration ramp Sets the ramp level while slowing: 0 LOW 1 medium low 2 medium 3 medium high 4 High	2
Ar	Acceleration ramp Sets the ramp level while starting: 0 LOW speed 1 MEDIUM speed 2 HIGH speed	1

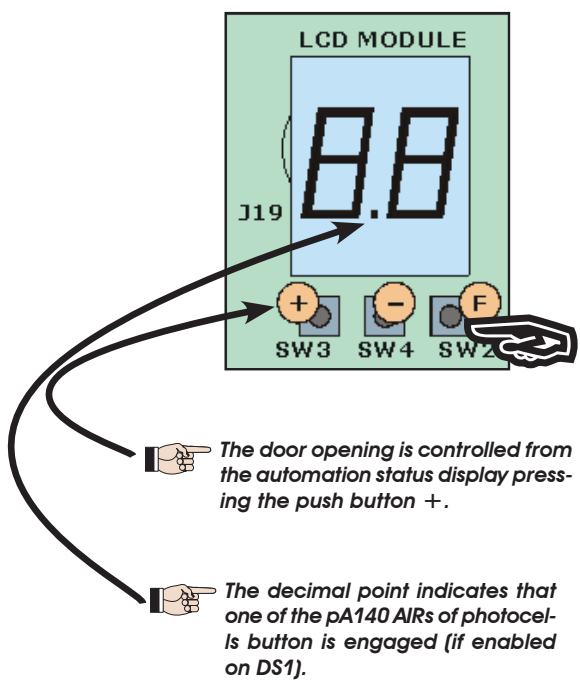
Important :
With pause time "NO" you can activate the "Energy Saving" function
Before using this function, refer to chapter "Description and use of Energy Saving".

WARNING :
TO SET PARAMETERS P1, IF, P2, 2F USE THE DISPLAY ONLY.
DO NOT SET PARAMETERS FROM SD-KEEPER .

Some of the main functions of the automatic door can be programmed directly from the control board. To access PROGRAMMING of the board, use push-button F:

- if you press it (and hold it down), the display shows the name of the first function.
- if you release the push-button, the display shows the value of the function, which can be changed with keys + and -.
- if you press F again (and hold it down), the display shows the name of the next function, etc.
- when you reach the last function, press the F push-button to exit programming, and the display resumes showing the inputs status.

The following table indicates the sequence of functions accessible in PROGRAMMING::




When an alarm is in progress, the display alternately shows AL, followed by the number of the alarm in progress.

To RESET, press the SW1 push-button for 1 sec. The software of the control board is shown.

(*) With parameter P1 at NO values 1F, P2 and 2F are not displayed..
() Parameter Ot is only displayed with P1 and/or P2 or Oc or Oo .**

PROGRAMMING THE E100 - E140 BOARD rev.4.5																						
Display	Function	Default																				
OF	<p>Opening force Sets the force of the door during opening in the event of an obstacle for the time tF.</p> <p>Adjustment: from 1 to 10</p>	7																				
CF	<p>Closing force Sets the force of the door during closing in the event of an obstacle for the time tF.</p> <p>Adjustment: from 1 to 10</p>	7																				
tF	<p>Push time OF and CF Sets the time during which the door during opening and closing remains on the obstacle with a push OF and CF.</p> <p>Can be adjusted from 0.0 to 3.0 sec. in 0.1second steps.</p>	1																				
bA	<p>Battery Kit It enables you to set the battery kit functions. For the function descriptions, refer to the dedicated paragraph:</p> <p>0 battery kit NOT ENABLED 1 battery kit ENABLED standard operation – last manoeuvre opening 2 battery kit ENABLED standard operation – last manoeuvre closing 3 battery kit ENABLED operation NO standard – last manoeuvre opening 4 battery kit ENABLED operation NO standard – last manoeuvre closing</p>	0																				
EL	<p>Motor lock kit Enables to set the motor lock functions.</p> <p>0 Off Motor lock not installed. 1 Night The motor lock locks the leaves only in the "Night" operating mode 2 One way + Night The motor lock locks the leaves in the "Night" and "one way" operating modes. 3 Always The motor lock locks the leaves whenever the leaves close, irrespective of the set operating function.</p>	1																				
SU	<p>Surveillance Enables to select the presence of the motor lock supervision.</p> <p>no Motor lock surveillance device not installed. Y Motor lock surveillance device installed.</p>	no																				
nd	<p>Night mode internal sensor deactivation delay</p> <p>Parameter for delaying deactivation of the Night mode internal sensor.</p> <p>Adjustable from 0 to 60 sec. in 1-second steps.</p>	0																				
St	<p>Status of the automated system Exit from programming, storage of the settings and return to the automated system status display.</p> <table border="0"> <tr> <td>00</td> <td>Closed</td> <td>05</td> <td>Closes</td> </tr> <tr> <td>01</td> <td>Opening</td> <td>06</td> <td>Emergency</td> </tr> <tr> <td>02</td> <td>Open</td> <td>07</td> <td>Manual mode</td> </tr> <tr> <td>03</td> <td>Pause</td> <td>08</td> <td>Setup (flashing)</td> </tr> <tr> <td>04</td> <td>Night pause</td> <td></td> <td></td> </tr> </table>	00	Closed	05	Closes	01	Opening	06	Emergency	02	Open	07	Manual mode	03	Pause	08	Setup (flashing)	04	Night pause			
00	Closed	05	Closes																			
01	Opening	06	Emergency																			
02	Open	07	Manual mode																			
03	Pause	08	Setup (flashing)																			
04	Night pause																					



Important :

After having fitted the battery kit, you need to enable it from the board to make it operating: to this end use push-buttons F +/- on parameter bA. For any additional explanations, please refer to chapter **3 Battery**.

SD-KEEPER PROGRAMMING UNIT

The SD-Keeper is used for selecting operational functions, and for controlling and programming sliding automatic doors.

It is divided into two parts: a fixed part used for selecting the operating functions by means of push-buttons and relevant signalling LEDs (fig. 61 ref. A), and a pull-out part with LCD display to access complete programming (fig. 61 ref. B).

The SD-Keeper display can be used as a temporary programming unit: after all programming and adjustments have been carried out, it can be fully removed because the settings remain stored on the control board.

When the display is removed, a cover is provided (fig. 61 ref. C).

SD-Keeper can be disabled by a combination of keys (see the special LOCK function) or by internally fitting a jumper by means of a switch (fig.62 ref. LOCK).

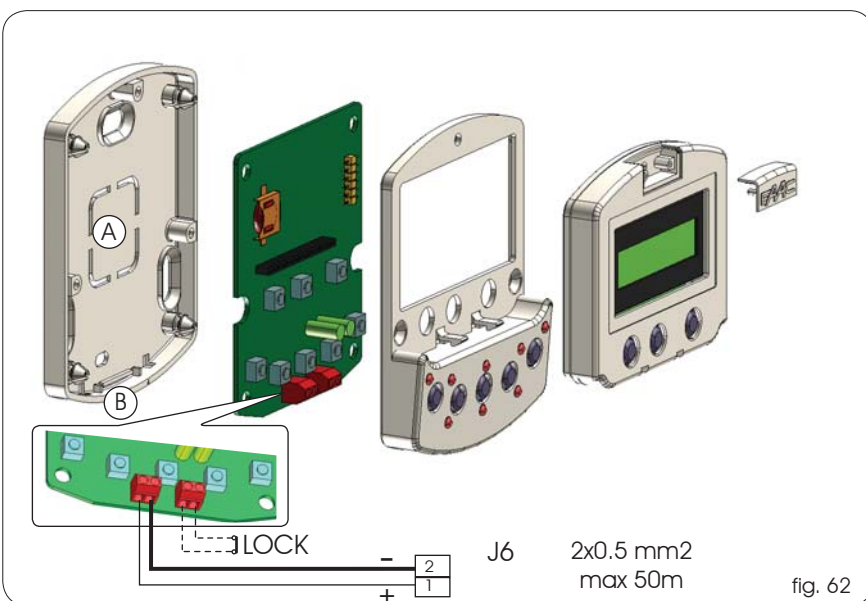
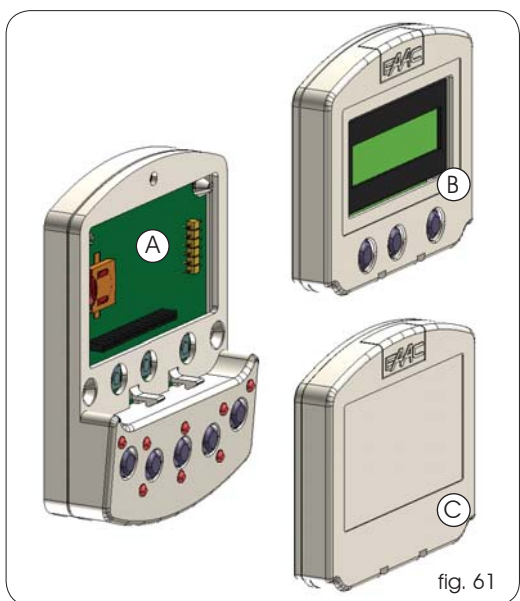
FITTING

Refer to fig. 62 for an exploded view of fitting. Let cable route through point A or B according to the cable position needs.

CONNECTIONS

Connect SD-Keeper to the control board with the following cable: 2x0.5mm² max 50m (fig. 62).

If a jumper is closed between two terminals as shown in fig. 62 (LOCK), all keys on the programmer are disabled.

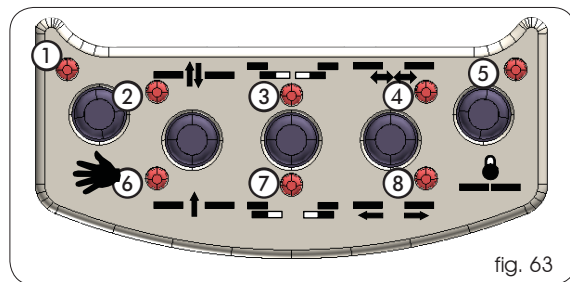


DIAGNOSTICS

SD-Keeper (also without display) has a diagnostic function which, in case of an alarm, interrupts normal display of the function every 2 seconds in order to show the fault status for 1 second by a combination of flashing LEDs.

Consult fig.63 and table 1 to identify the type of alarm by interpreting the flashing LEDs.

If there are several simultaneous faults, the first to be detected is shown.



Tab.1 DIAGNOSTICS		Led ● =on ○=off							
DESCRIPTION	MEANING	①	②	③	④	⑤	⑥	⑦	⑧
	ENERGY SAV.	○	●	○	○	○	○	○	○
2	BAT. OPERATION	○	○	●	○	○	○	○	○
3	FORCED OPEN	○	○	●	○	○	○	○	○
4	FLAT BATTERY	○	○	○	●	○	○	○	○
6	EMERG 2 ON	○	○	●	●	○	○	○	○
7	EMERG 1 ON	○	○	●	●	○	○	○	○
8	OBST. IN OPEN.	○	○	○	○	○	○	○	●
9	OBST. IN CLOS.	○	○	○	○	○	○	○	●
10	Motor lock locked in closed position	○	○	●	○	○	○	○	●
11	Motor lock locked in open position (with surveillance kit only)	○	○	●	○	○	○	○	●
12	Incorrect power supply to motor	○	○	○	●	○	○	○	●
13	Sensor monitoring test 2 failed on input P2	○	○	○	●	○	○	○	●
14	Sensor monitoring test 1 failed on input P1	○	○	○	●	○	○	○	●
15	Setup not possible	○	○	○	●	○	○	○	●
22	Initialisation process not possible on motor: too much friction or leaf too heavy	○	●	●	●	○	○	○	○
23	Accessory power supply +24 V dc faulty (probable short circuit)	○	●	●	●	○	○	○	○
24	Motor failure	○	○	○	○	○	○	○	●
25	Control board faulty	○	○	○	○	○	○	○	●

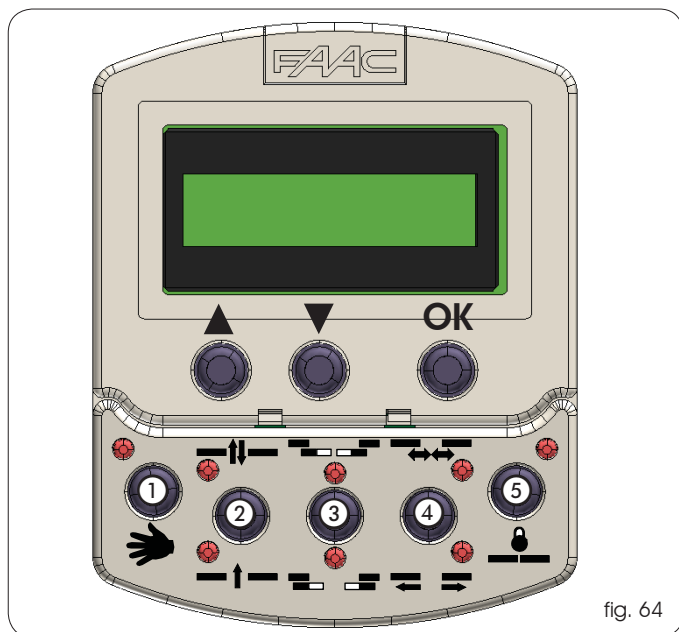


fig. 64

①		MANUAL
②		TWO-WAY
		ONE WAY
③		PARTIAL OPENING
		TOTAL OPENING
④		AUTOMATIC
		DOOR OPEN
⑤		NIGHT

OPERATING FUNCTIONS

Selection is performed by pressing the keys on the fixed part of the programmer - the function is indicated by the relevant LED lighting up.

when the "Night" or "Manual" modes have been set, the relevant selection keys must be pressed to exit the modes.

Manual

The sliding leaves are free and can be activated manually.

Two-way

Pedestrian transit is possible in both directions; the inside and outside radars are enabled.

One way

Pedestrian transit is possible in one direction only; the external radar is disabled.

Partial opening

The door opens only partially (standard: 50%)
Partial opening can be adjusted in range from 10% to 90% of total.

Total opening

The door opens completely.

Automatic

The door opens (partially or totally) and then re-closes after the set pause time (standard: 2 sec.).
Adjusting range of pause time: 0 to 30 sec.

Door open

The door opens and stays open.

Night

The door closes and the motor lock (if present) is activated. The internal and external radars are disabled.
The Key command causes the door to open and re-close after night pause time elapses (standard: 8 sec).
Adjusting range of night pause time : 0 to 240 sec.
To obtain partial opening in this mode, before selecting the "Night" function, activate the "Partial Opening" function.

SPECIAL FUNCTIONS

Setup

Setup is the door initialisation function during which parameters are self-learned.

To activate, simultaneously press keys ① and ⑤ for 5 sec.

Reset

Reset is the function for restoring normal operating conditions after some types of alarm have been signalled.

To activate, simultaneously press keys ② and ③ .

Lock

When active, the Lock function disables SD-Keeper.

To activate (and de-activate), simultaneously press keys ③ and ④ for 5 sec.

BATTERY INSERTION/CHANGE

To keep the clock inside SD-Keeper active even in the event of a power cut, a 3V model CR1216 lithium battery is provided. Insert or replace the battery in the compartment on the printed circuit (fig.65) respecting the indicated polarity.

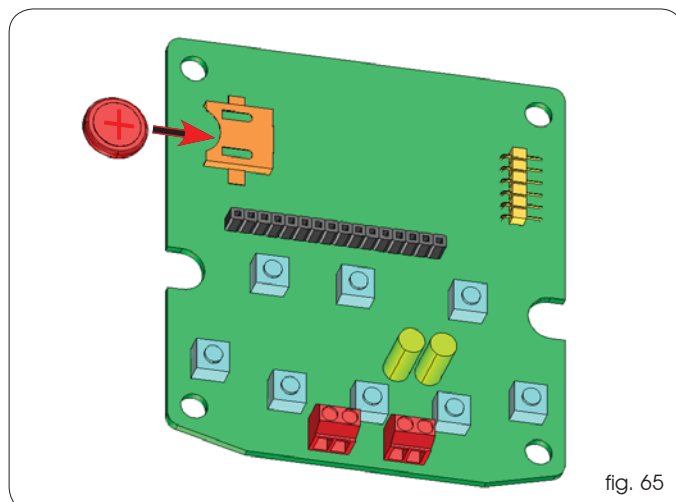
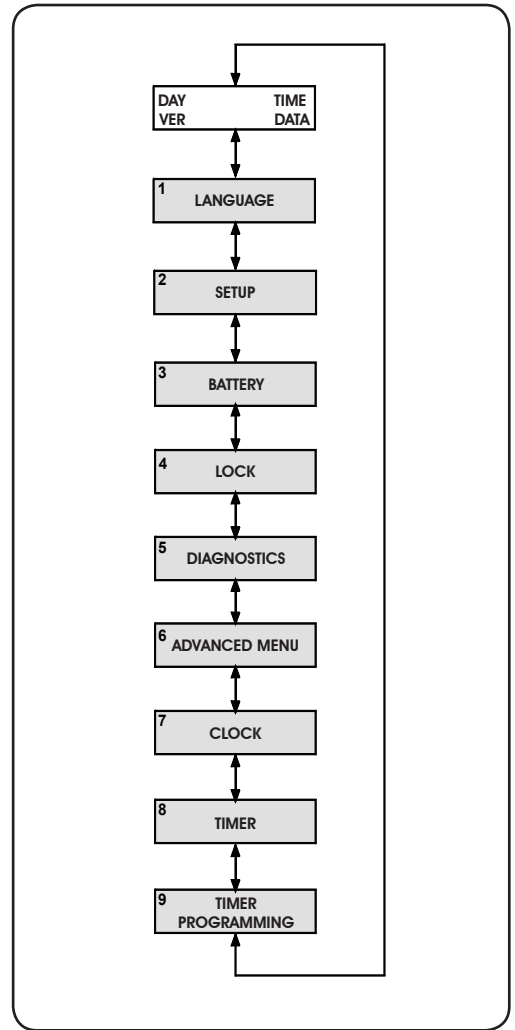
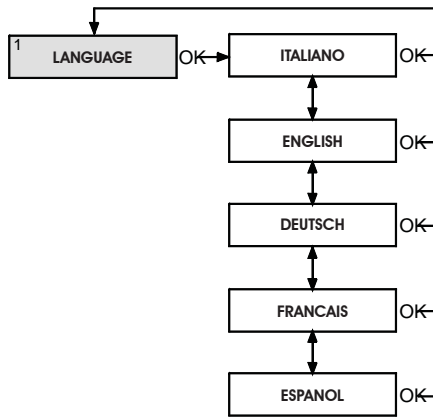
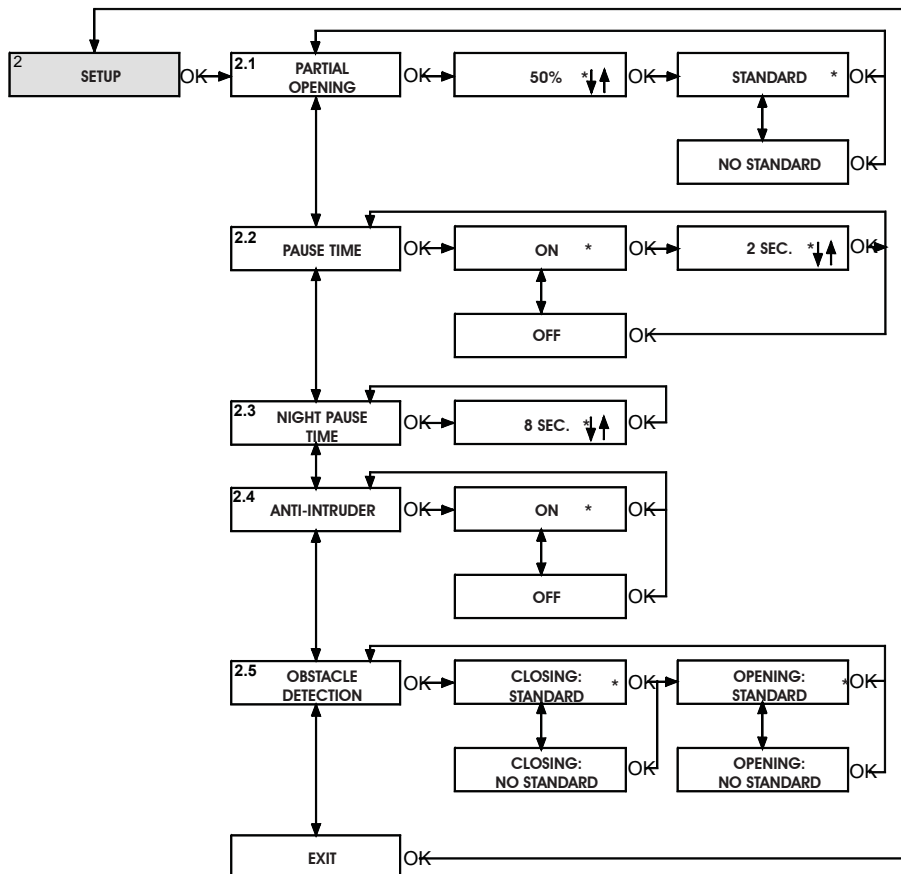


fig. 65

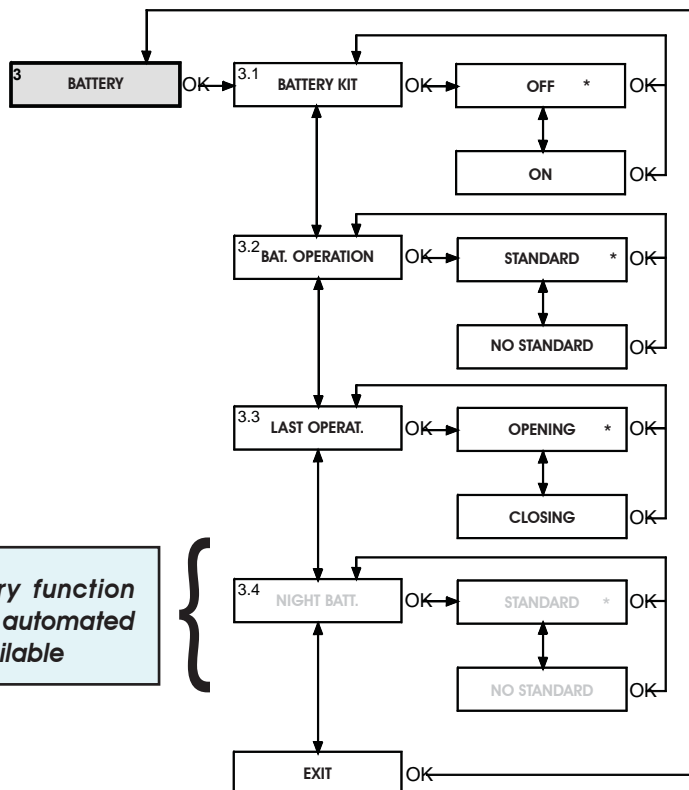
To access programming while the standard view is shown on the display, press any of keys ▲ or ▼ .
 Programming is subdivided into main menus (see box) split into subjects.
 After selecting the menu with keys ▲ or ▼, to access it press OK.
 Each menu is, in turn, subdivided into sub-menus at different parameter setting levels.
 Use keys ▲ or ▼ to select (sub-menu or parameter) and confirm with the OK key.
 An asterisk on the display indicates the currently active setting.
 To exit programming, select the "exit" function at each level. Otherwise, after about 2 minutes, the display automatically returns to standard view.




ENGLISH

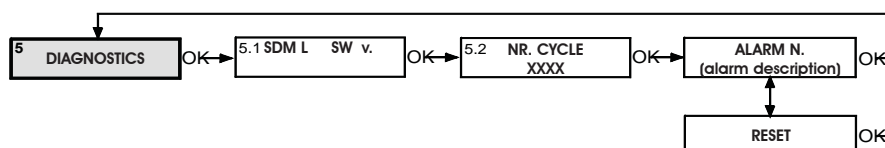
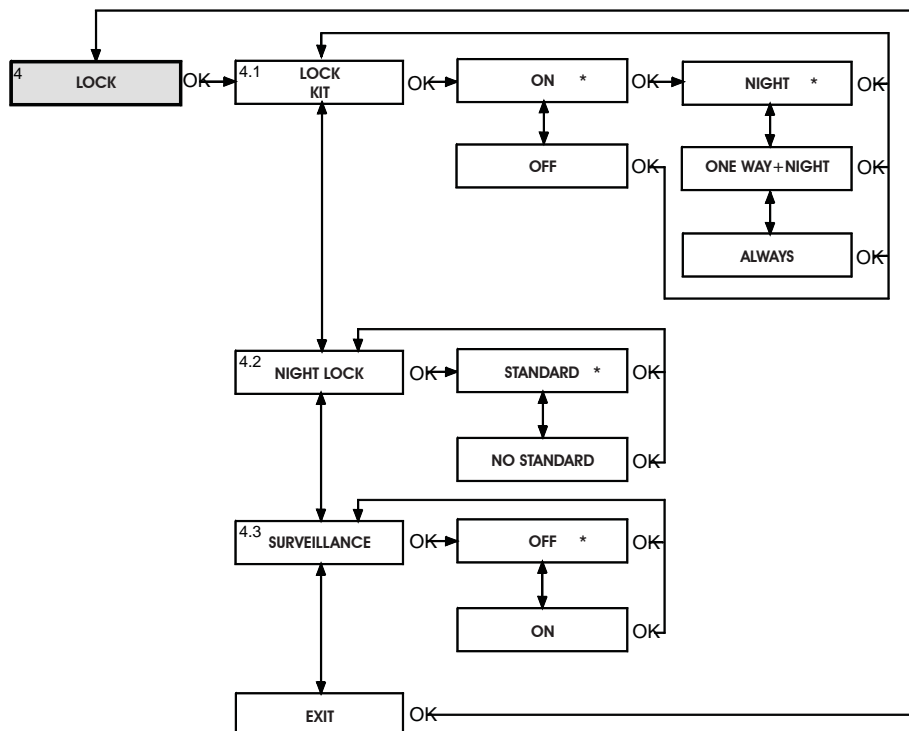


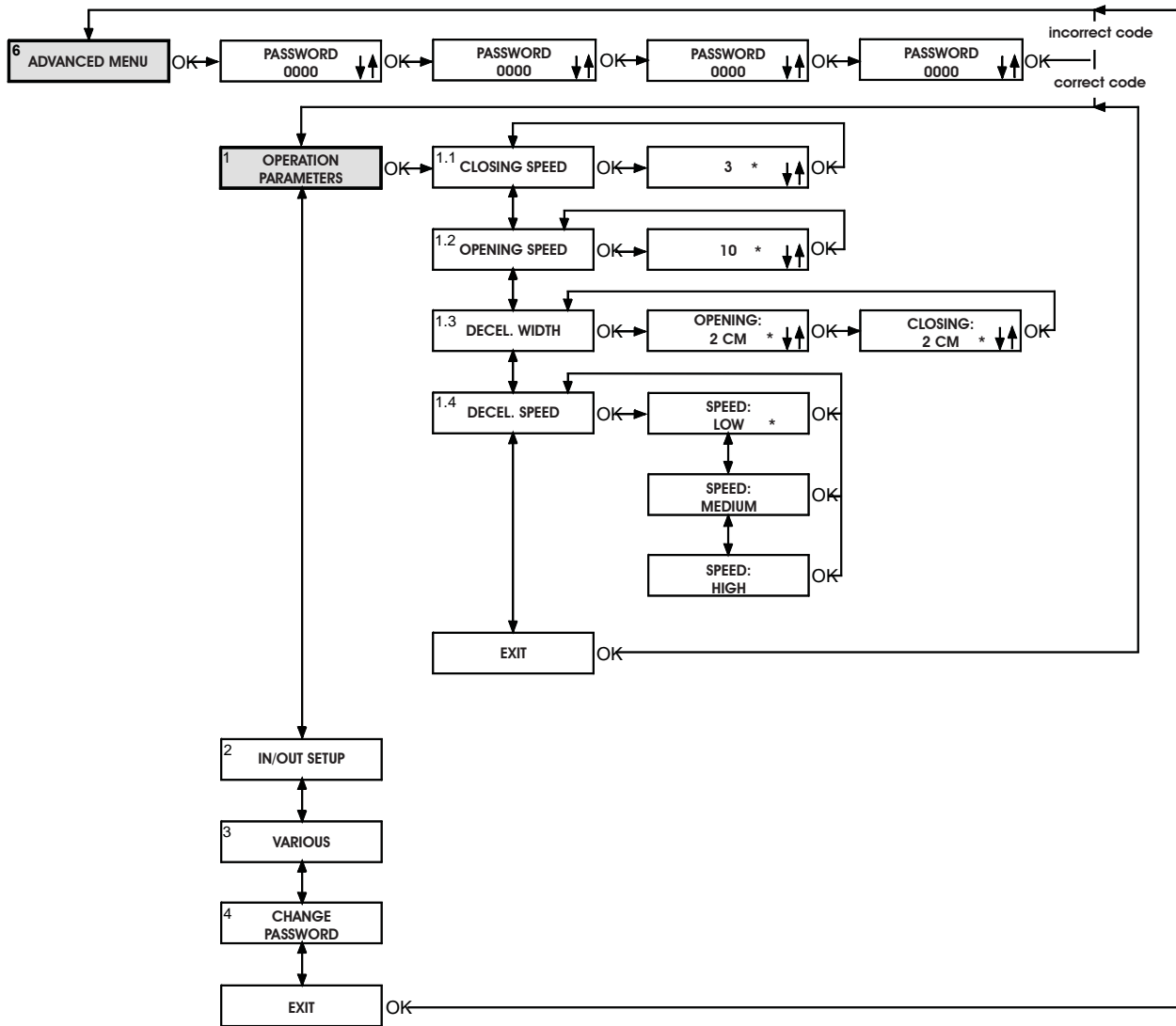
Important :
 With pause time "OFF" you can activate the "Energy Saving" function. Before using this function, consult the chapter "Description and use of Energy Saving".



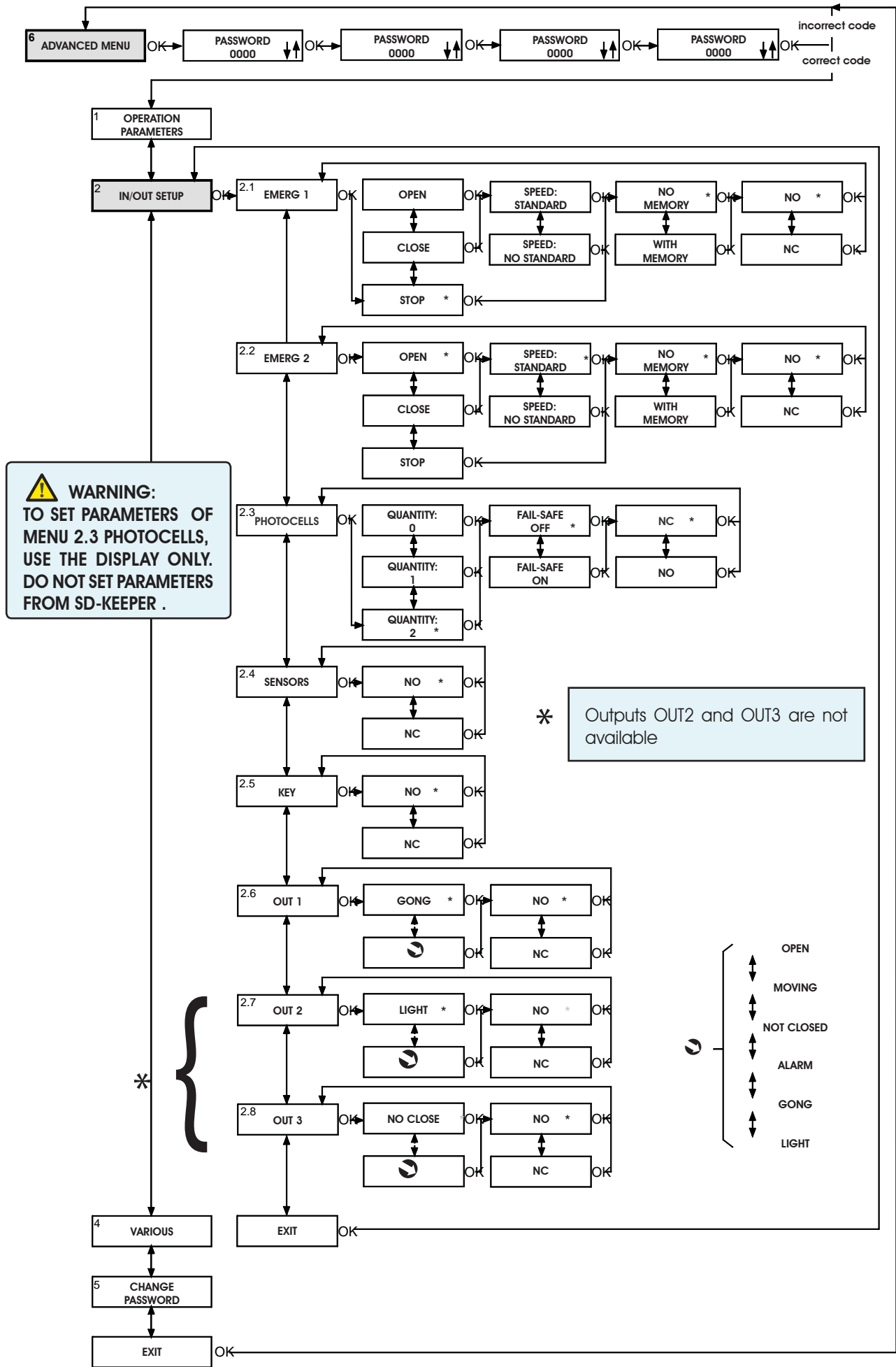
 **Important :**
After having fitted the battery kit, you need to enable it using the SD Keeper programming unit in order to make it operating.

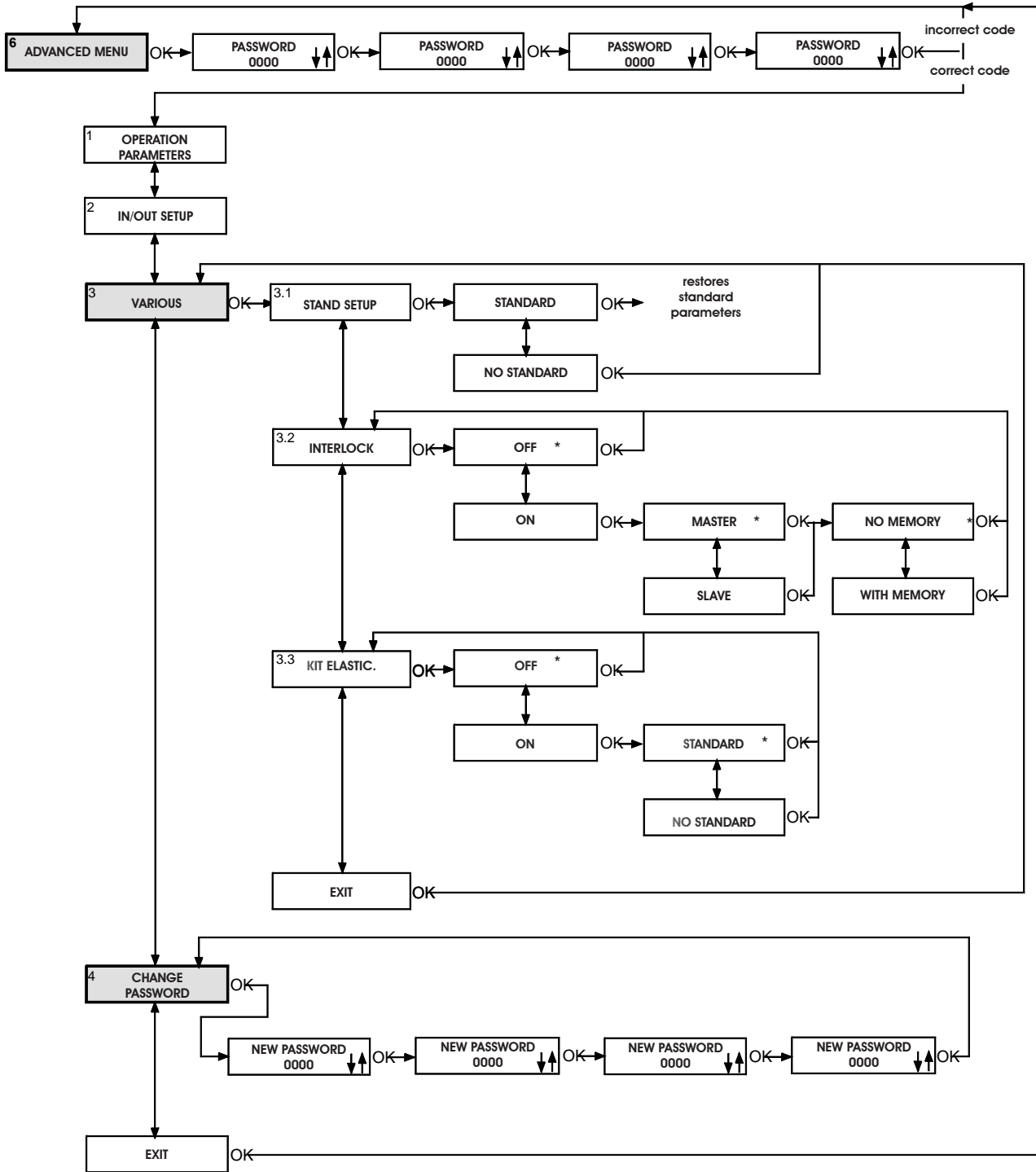
The night battery function in the A140 AIR automated system is not available

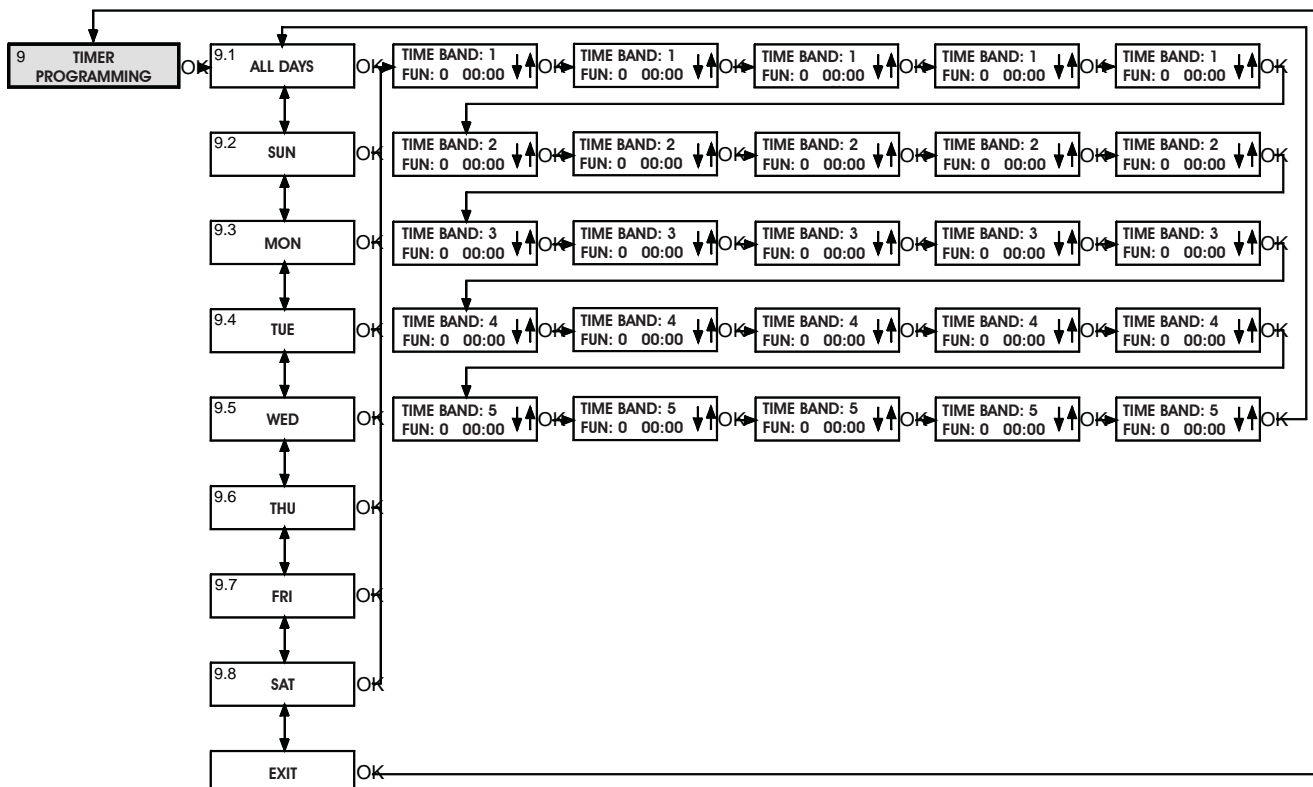
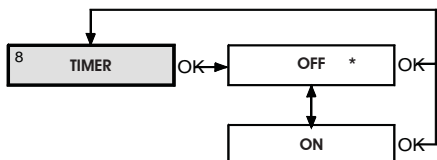
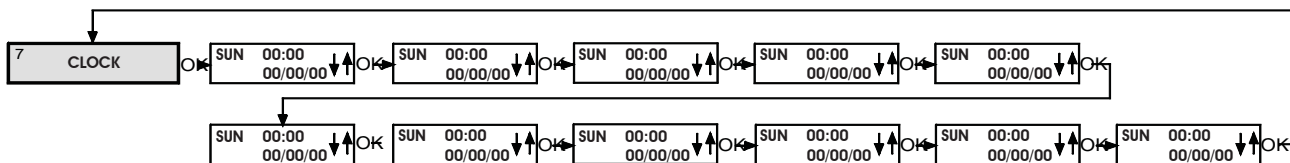




ENGLISH







1 LANGUAGE

Selects the language for showing the messages on the display.

2 SETUP

2.1 Partial opening

Partial opening percentage

Selects the opening percentage (referred to total opening) performed in the "partial opening" operational function.

Standard value: 50%

Adjusting range: from 10% to 90%

Standard

When the "partial opening" operational function is selected, sensor activation always causes a partial opening command.

No Standard

When the "partial opening" operational function is selected, simultaneous activation of the internal and external sensors commands total opening.

2.2 Pause time

On

Pause time enabled in the "automatic" operational function.

Pause time value

If pause time is enabled, it can be set.

Standard value: 2 sec.

Adjusting range: from 0 to 30 sec. in 1 sec. steps

Off

Pause time is disabled and the leaves begin to close as soon as the command elements (e.g.sensors) become inactive.

2.3 Night pause time

Night pause time value

It sets pause time in the "night" operating function when a command is given on the KEY input.

Standard value: 8 sec.

Adjusting range: from 2 to 240 sec in steps of 2.

2.4 Anti intruder

On

In "Automatic" operating mode, the door opposes manual opening attempts by means of contrary force.

During the attempt to open, an alarm is signalled on the control board and on the SD-Keeper (alarm #3 - forced door).

With the door closed, the board continues powering the motor during closing, except when the automated system operates on the battery while the motor is locked.

Off

In "automatic" operating mode, when manual opening is attempted, the door opens automatically and re-closes after any pause time.

 *In the "night" operational function, the anti-intruder is always active.*

2.5 Obstacle detection

Closing: Standard

If an obstacle is detected during closing, the door re-opens.

Closing: No Standard

If an obstacle is detected for 3 consecutive times at closing, the door stops in open position, and causes an alarm signal on the control board and on SD-Keeper (alarm No.9 - obstacle during closing).

To restore operation, resetting is necessary either from the control board or from SD-Keeper.

Opening: Standard

If an obstacle is detected during opening, the door stops for one second and then re-closes.

Opening: No Standard

If an obstacle is detected for 3 consecutive times at opening, the door stops in closed position, and causes an alarm signal on the control board and on SD-Keeper (alarm No.8 - obstacle during opening).

To restore operation, resetting is necessary either from the control board or from SD-Keeper.

3 BATTERY

3.1 Battery kit

Off

Battery kit not installed.

On

Battery kit installed.

3.2 Bat. operation

Standard

If there is a power cut and the operating function is other than "Night", the door continues operating normally until the battery has sufficient charge reserve to perform at least one emergency movement.

The last movement operation to be executed is the one selected with function 3.3.

No Standard

In the event of a power cut, the door executes only the moving operation selected with function 3.3.

As of firmware version 4.5 :

Battery operation and partial opening:

With the last opening motion (No Standard) it immediately effects total opening.

Battery operation and opening safety:

With the last opening motion (No Standard) The door opens, with opening safety engaged, at low speed.

3.3 Last operat.

Opening

During battery operated functioning, the last moving operation is opening (see also function 3.2).

Closing

During battery operated functioning, the last moving operation is closing (see also function 3.2).

3.4 Night batt.



Not available in the A140 AIR 140 automated system.

4 LOCK

4.1 Kit lock

On

Motor lock installed.

Night

The motor lock locks the leaves only in the "night" operational function.

One way+Night

The motor lock locks the leaves in the "night" and "one way" operational functions.

Always

The motor lock locks the leaves whenever they close, irrespective of the set operational function.

Off

Motor lock not installed.

4.2 Night Lock

Standard

In the "night" operational function, with discharged batteries, the motor lock keeps the leaves locked.

No Standard



Not available in the automated system

4.3 Surveillance

Off

Surveillance device on motor lock not installed.

On

Surveillance device on motor lock installed.

5 DIAGNOSTICS

5.1 SDM L

The software of the control board to which SD-Keeper is connected is shown.

5.2 Nr cycle

The count (non resettable) of the cycles effected by the door is shown.

5.3 Alarm n°

The number and description of the current alarm are shown.

N°	DESCRIPTION	MEANING
	ENERGY SAV.	Operating on low battery consumption
2	BAT. OPERATION.	Door operating on battery
3	FORCED OPEN	Door forced opening in progress
4	FLAT BATTERY	Battery discharged; emergency movement not guaranteed (only on control board display)
6	EMERG 2 ON	Emergency 2 input active
7	EMERG 1 ON	Emergency 1 input active
8	OBST. IN OPEN.	Opening obstacle detected 3 successive times; Reset necessary to restore operation
9	OBST. IN CLOS.	Closing obstacle detected 3 consecutive times; Reset necessary to restore operation
10		Motor lock locked in closed position
11		Motor lock locked in open position (with surveillance kit only)
12		Incorrect power supply to motor
13		Sensor monitoring test 2 failed on input P2
14		Sensor monitoring test 1 failed on input P1
15		Setup not possible
22		Initialisation process not possible on motor: too much friction
24		Motor malfunctions
25		control board faulty

Reset

Executes reset procedure.

6 ADVANCED MENU

PASSWORD

To access the advanced menu, insert the 4-digit password (default 0000).

1 OPERATION PARAMETERS

1.1 Closing speed

Sets door speed for closing.
Standard value: level 3.
Adjusting range: from 1 to 10

1.2 Opening speed

Sets door speed for opening.
Standard value: level 10 (maximum speed)
Adjusting range: from 1 to 10

1.3 Deceleration width

Sets the deceleration width of the door during opening and closing.
Standard value for opening and closing : 0 cm
Adjustment: from 0 to 120 cm

1.4 Slow down speed

Speed

Sets speed level during deceleration.
Standard value: low
Adjusting range: high / medium / low

2 IN/OUT SETUP

2.1 Emerg 1

2.2 Emerg 2

Sets the effect of the emergency commands (Emerg1 and Emerg2 inputs on control board).
Standard setting EMERG 1: Stop/No memory/NO
Standard setting EMERG 2: Open/Speed: Standard/No memory/NO

Open

Activating this command opens the door.

Close

Activating this command closes the door.

Stop

Activating this command stops the door.



the EMERG1 command has priority over EMERG2

Speed: Standard

The door opens or closes (according to setting) at normal speed.

Speed: No Standard

The door opens or closes (according to setting) at slow speed.

No memory

In order to keep the emergency active, the command must be maintained active (on release, the door returns to normal operation).


With Memory

A pulse keeps the emergency operational;
To restore operation, resetting is necessary either from the control board or from SD-Keeper.

No
Normally open input.

Nc
Normally closed input.

2.3 Photocells

 **WARNING:**
TO SET PARAMETERS OF MENU 2.3 PHOTOCELLS, USE THE DISPLAY ONLY. DO NOT SET PARAMETERS FROM SD-KEEPER .

2.4 Sensors

Sets the status of "external radar" and "internal radar" commands (E-Det and I-Det inputs on control board).

No
Normally open input.

Nc
Normally closed input.

2.5 Key

Sets the status of the "key" command (Key input on the control board).

No
Normally open input.

Nc
Normally closed input.

2.6 Out 1

Sets function or status associated with individual outputs on the control board.
Standard setting OUT 1: Gong/NO

 **The outputs OUT2 and OUT3 Not available in the automated system**

Function/Status
The output is activated according to selection:

SELECTION	OUTPUT ACTIVATION
OPEN	Until the door is open
MOVING	Until door is moving
NOT CLOSED	Until door is not closed
ALARM	Until the door is in alarm status
GONG	Intervention of photocells activates the output for 1 sec. at 0.5 sec. intervals until release.
LIGHT	In "night" operational function, when the door is commanded to open, the output is activated for 60 sec.
INTERLOCK(*)	The output is activated to create an interlock between the doors

(*) The "interlock" function cannot be selected but is automatically set on the OUT1 output when the interlock is activated (see Various/Interlock).

No
Normally open output.

Nc
Normally closed output.

3 VARIOUS

3.1 Stand Setup

Used for checking if any non-standard programming operation was effected.

Standard

If no function was modified with respect to the standard programming, an asterisk is shown.
If the asterisk is not present, press the "OK" key and all standard programming functions are reset.

No Standard

If at least one function was modified with respect to the standard programming, an asterisk is shown.

3.2 Interlock

The interlock function makes it possible to control two sliding doors (master and slave) so that opening of one depends on closing of the other and vice versa.

Off

Interlock function not active.

On

Activates the interlock function.

Master

The master door (usually the internal one).

Slave

The slave door.

No Memory

With interlock operation, you must wait for one door to re-close before commanding the other to open: any opening pulses sent during the operating cycle of the first door, have no effect.

With Memory

With interlock operation, there is no need to wait for one door to re-close before commanding the other to open: any opening pulses sent during the operating cycle of the first door are memorised, and the second door opens automatically as soon as the first door closes.

3.3 Elastic kit

The elastic kit is a mechanical accessory that, after installation, enables the anti-panic opening of the leaves in the event of a power cut.

Off

Elastic kit not installed.

On

Elastic kit installed.

Standard - No Standard

When power is supplied again after a power cut, the door automatically executes the necessary movement to reset the device.

Exception: door set in manual mode.

 **Important!: during the automatic reset of the system, the anti-crushing function is disabled.**

4 CHANGE PASSWORD

Sets the new password for accessing the advanced menu (4 digits).

7 CLOCK

Sets the current day, time and date.

8 TIMER

Off

Timer not activated.

On

Timer activated: the operating time bands set in "9 Timer Programming" are enabled.

When the timer is activated, a "T" appears at the side of the time shown on the display and the SD-Keeper will not allow any operational selection.

The battery inside the SD-Keeper maintains the clock in operation even if power is not supplied; if correct time is lost (e.g. black-out and discharged battery), a flashing asterisk appears in place of the "T" and the timer is disabled.

9 TIMER PROGRAMMING

With the timer, you can create up to 5 different time bands for each day of the week (by setting the band starting time) and assign an operational function to each time band.

When the SD-Keeper's internal clock reaches the starting time of a band, the associated operating function is automatically set, and the door remains in this condition until the subsequent band intervenes.

Permanent connection of the SD-Keeper+Display is necessary for correct management of time bands.

Selecting the day

Selects the day of the week to create time bands.

If you select "All days", any time bands defined subsequently are included in all days of the week.

Function

Sets the operating function to be associated with the time band by referring to the following table:

FUN	MEANING
0	NO FUNCTION
1	AUTOMATIC TWO-WAY TOTAL
2	AUTOMATIC ONE WAY TOTAL
3	AUTOMATIC TWO-WAY PARTIAL
4	AUTOMATIC ONE WAY PARTIAL
5	DOOR TOTALLY OPEN
6	DOOR PARTIALLY OPEN
7	MANUAL
8	NIGHT

Time band starting time

Sets the activation time for the time band.

There is no need for the time bands to be in chronological order.

TIMER PROGRAMMING EXAMPLE-

We wish to program a door operating at the following times:

- from MONDAY to FRIDAY:
 - from 8 a.m. in AUTOMATIC TWO-WAY TOTAL
 - from 6 p.m. in AUTOMATIC ONE WAY TOTAL
 - from 7 p.m. in NIGHT
- SATURDAY and SUNDAY: NIGHT for the whole day

Proceed as follows:

select ALL DAYS and set the following:

- TIME BAND 1 : FUN. 1 8 a.m.
- TIME BAND 2 : FUN. 2 6 p.m.
- TIME BAND 3 : FUN. 8 7 p.m.
- TIME BAND 4 : FUN. 0
- TIME BAND 5 : FUN. 0

select SAT and set the following:

- TIME BAND 1 : FUN. 0
- TIME BAND 2 : FUN. 0
- TIME BAND 3 : FUN. 0
- TIME BAND 4 : FUN. 0
- TIME BAND 5 : FUN. 0

select SUN and set the following:

- TIME BAND 1 : FUN. 0
- TIME BAND 2 : FUN. 0
- TIME BAND 3 : FUN. 0
- TIME BAND 4 : FUN. 0
- TIME BAND 5 : FUN. 0



WARNING:

For the interlock configuration with sensors or keys adhere to the EN16005 standard using monitored sensors or using the LOW ENERGY mode.

Interlock with internal sensors

This application is recommended when the distance between the two doors is sufficient to avoid interference in the detection ranges of the two internal sensors.

- Make the connections between the J6 terminal boards of the two control boards and the sensors as shown in figure 66.
- Program the following functions::
 - “interlock” active on both doors,
 - select the “master” option for the internal door, and the “slave” option for the external one,
 - select, for both doors, option “interlock with no memory” or “interlock with memory” (refer to explanations in the programming flow-charts).

Important:

- The sensors must be connected ONLY to the E-DET input of the equipment;
- The interlock will operate only if both doors are set to the ONE WAY operating function.

Operation

These are the interlock operational stages:

1. The person on the outside activates sensor S1 of door A;
2. Door A opens;
3. The person enters the internal space between the two doors;
4. Door A closes after the pause time elapses;
5. The person activates sensor S3 of door B (If the “Interlock with memory” option was selected, there is no need to wait for the first door to close totally in order to activate the sensor of the second door);
6. Door B opens;
7. The person exits;
8. Door B closes after the pause time elapses.

The operation is identical if the person comes from the opposite direction.

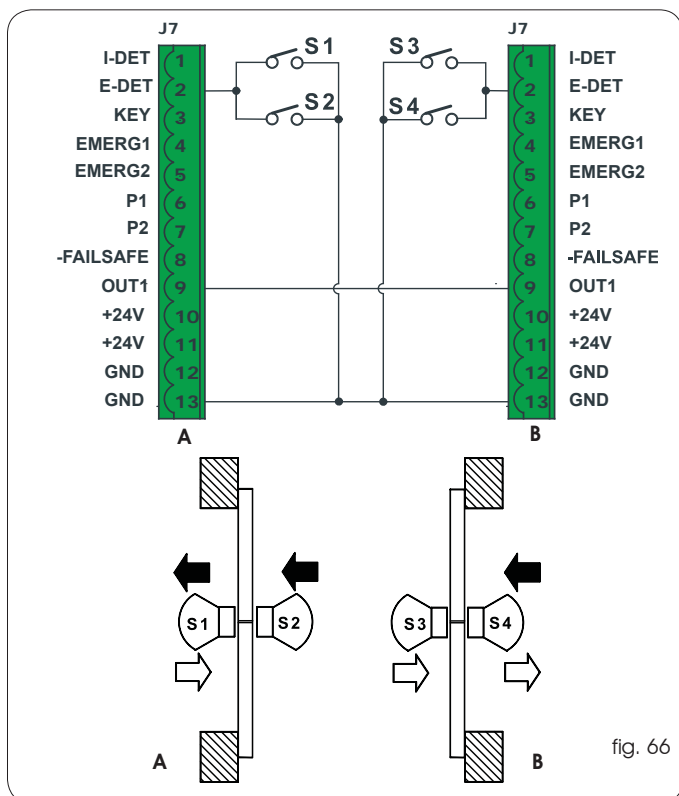


fig. 66

Interlock with push-buttons

This application is recommended if the doors are so near to one another that the two internal sensors cannot be used; two push-buttons are provided for activating the doors from the outside.

- Make the connections between the J6 terminal boards of the two control boards, of the push-buttons and additional electronic components as shown in figure 67.
- Program the following functions:
 - “interlock” active on both doors,,
 - select the “master” option for the internal door, and the “slave” option for the external one,
 - select the “interlock with memory” option for both doors (refer to explanations in the programming flow-charts).

Important:

- The push-buttons must be connected ONLY to the E-DET input of the equipment;
- The interlock will operate only if both doors are set to the ONE WAY operating function.

Operation

These are the interlock operational stages:

1. The person on the outside activates push-button P1 of door A;
2. Door A opens;
3. The person enters the internal space between the two doors;
4. Door A closes after the pause time elapses;
5. Door B opens automatically;
6. The person exits;
7. Door B closes after the pause time elapses.

The operation is identical if the person comes from the opposite direction.

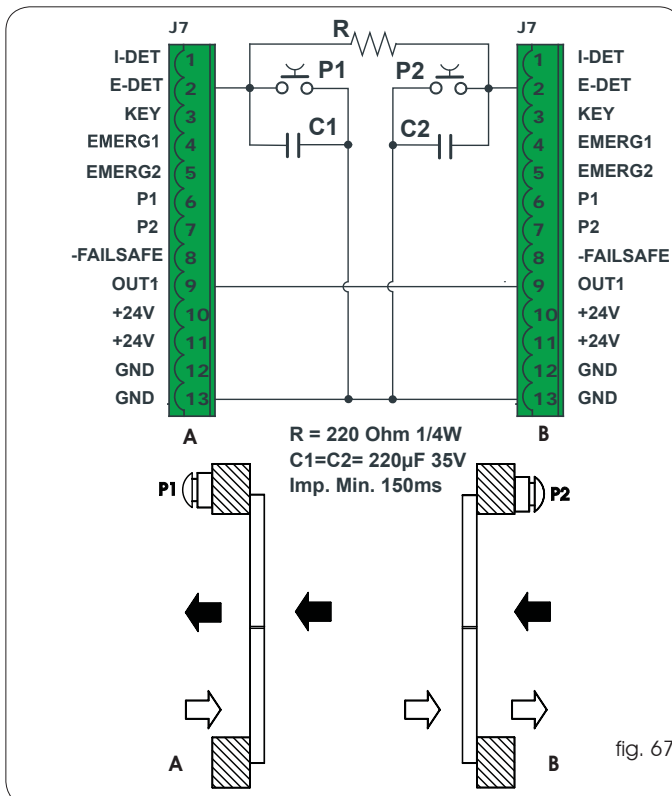


fig. 67

ACCESSORIES

MOTOR LOCK

Motor lock installation procedure:

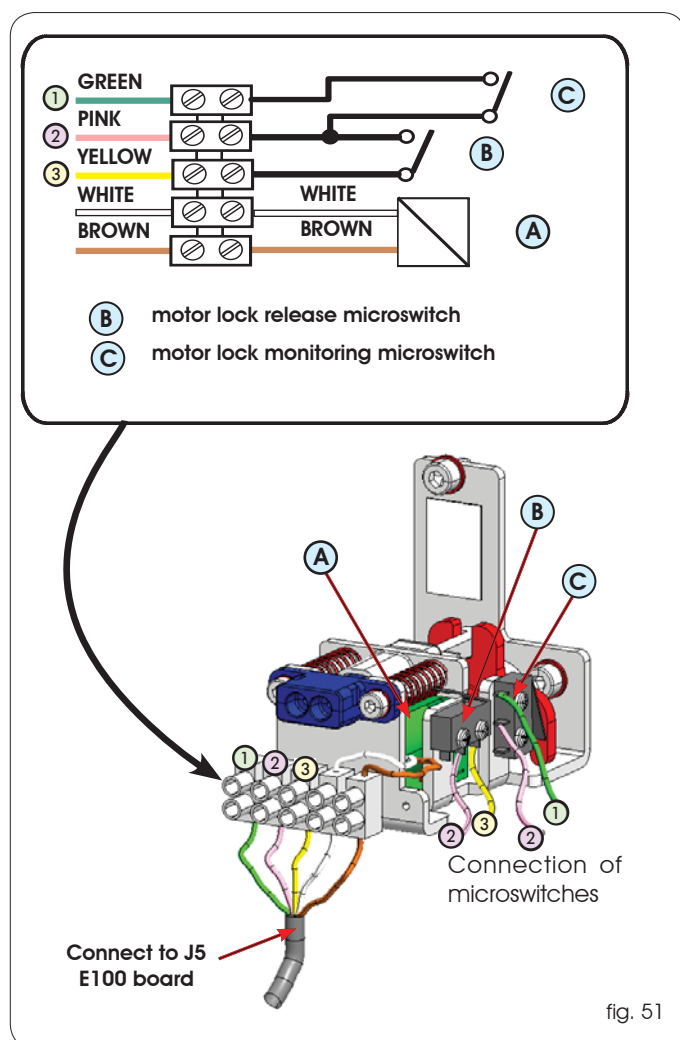
- cut out mains power supply;
- connect the motor lock connector to J5 of board E100;
- power up.

⚠ TO AVOID DAMAGING THE MOTOR LOCK, ALWAYS ACTIVATE OR DISABLE IT WHEN NO POWER IS SUPPLIED.

In the standard configuration:

The motor lock locks the leaves only in "Night" operating function;
- if operating on batteries in the Night mode, if the batteries discharge, the motor lock continues to lock the leaves.

With SD-Keeper+Display or E100, you can change the operation of the motor lock.



MOTOR LOCK SUPERVISION

This accessory (Fig. 51 ref. C) makes it possible to verify correct operation of the motor lock and, if it stays locked while open, signals an error via the control board or SD-Keeper.

To activate motor lock surveillance, the function must be set with the control board or SD-Keeper.

ANTI-PANIC BY BREAK-OUT

This accessory enables the leaves to be opened by pressure; to install it, refer to the specific instructions.

If installing the anti-panic by break-out facility, a sensor or photocell must be connected to the EMERG1 input (via SD-Keeper+Display) configured for commanding immediate stop of the movement (STOP).

BATTERY KIT

Instructions to connect and install the battery kit:

- cut out mains power supply;
- insert the connector of the battery pack in connector J16 of board E100;
- power up the mains supply again;
- using SD-Keeper+Display, activate the "Battery Kit" and set the operating parameters you require (refer to the dedicated section in this manual);

⚠ IMPORTANT: TO AVOID DAMAGING THE BATTERY BOARD, THE BATTERY BOARD MUST ALWAYS BE ACTIVATED AND DISABLED WHILE NO MAINS POWER IS SUPPLIED

ACCESSORIES

MOTOR LOCK

Motor lock installation procedure:

- cut out mains power supply;
- connect the motor lock connector to J5 of board E140;
- power up.

⚠ TO AVOID DAMAGING THE MOTOR LOCK, ALWAYS ACTIVATE OR DISABLE IT WHEN NO POWER IS SUPPLIED.

In the standard configuration:

The motor lock locks the leaves only in "Night" operating function;

- if operating on batteries in the Night mode, if the batteries discharge, the motor lock continues to lock the leaves.

With SD-Keeper+Display or E140, you can change the operation of the motor lock.

ANTI-PANIC BY BREAK-OUT

This accessory enables the leaves to be opened by pressure; to install it, refer to the specific instructions.

If installing the anti-panic by break-out facility, a sensor or photocell must be connected to the EMERG1 input (via SD-Keeper+Display) configured for commanding immediate stop of the movement (STOP).

BATTERY KIT

Instructions to connect the battery kit:

- cut out mains power supply;
- insert the connector of the battery pack in connector J16 of board E140;
- power up the mains supply again;
- using SD-Keeper+Display, activate the "Battery Kit" and set the operating parameters you require (refer to the dedicated section in this manual);

⚠ IMPORTANT: TO AVOID DAMAGING THE BATTERY BOARD, THE BATTERY BOARD MUST ALWAYS BE ACTIVATED AND DISABLED WHILE NO MAINS POWER IS SUPPLIED

MOTOR LOCK SUPERVISION

This accessory (Fig. 68 ref. C) makes it possible to verify correct operation of the motor lock and, if it stays locked while open, signals an error via the control board or SD-Keeper.

To activate motor lock surveillance, the function must be set with the control board or SD-Keeper.

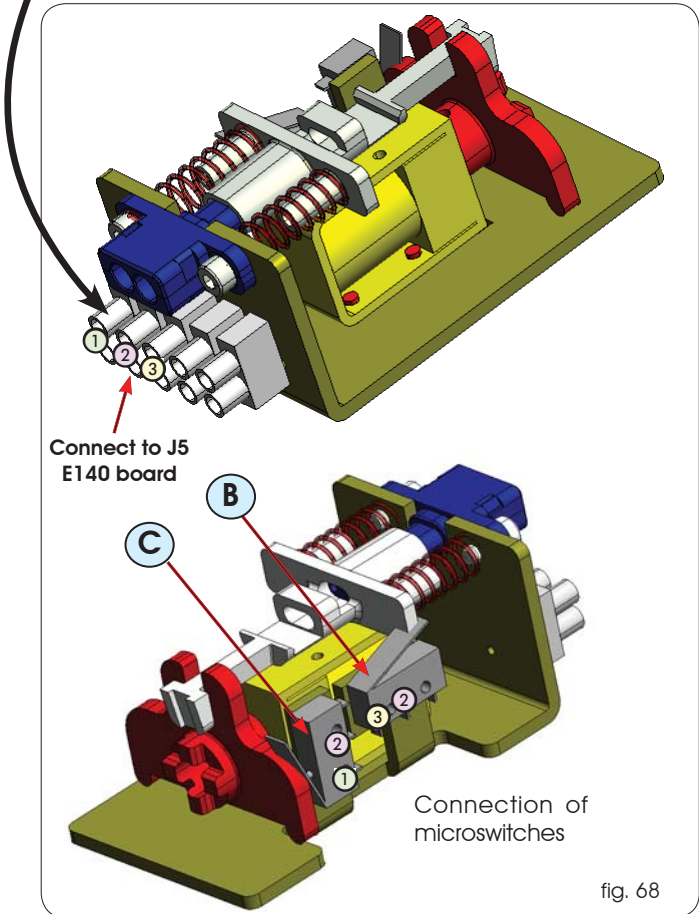
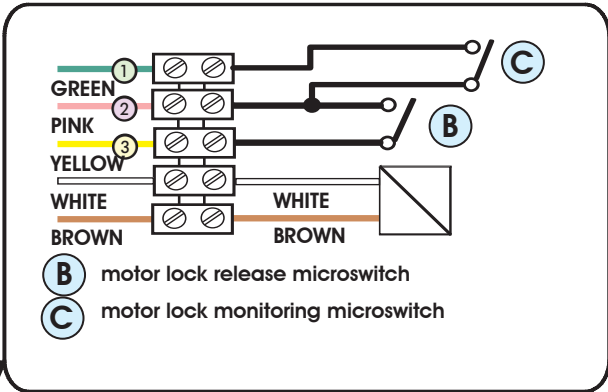


fig. 68

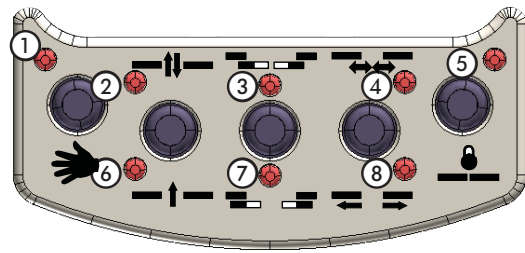
ENGLISH

DIAGNOSTICS GUIDE

The following is a list of the specified alarms plus the relevant explanation/solution.

SD-Keeper+Display shows the alarm number and description on the Diagnostics menu.

Only the SD-Keeper shows the type of alarm by a combination of flashing LEDs (referring to the figure on the side).



ENGLISH

DESCRIPTION	CAUSE	NOTES	ACTIONS	LED
ENERGY SAV.	The control board is operating in battery powered low consumption mode	In this mode, SD-Keeper's back-lighting is OFF and menus cannot be scrolled on the display.	(see battery kit instructions) However, the push-buttons for changing the operating functions are active.	2
2 BAT. OPERATION	control board operating on battery		In the event of a power cut, this is the normal battery-powered operation signal However, if mains power is available, check: • is the 5x20 T2,5A fuse of the transformer in the power supply unit interrupted? • is the F2 5x20 T2,5A fuse on the control board interrupted? • Is the 230V~ mains power supply correctly connected? • Is connector J1 fitted correctly on the control board? If the alarm persists, replace the control board. If the alarm persists, replace the transformer.	3
3 FORCED OPEN	Someone is now trying to force the door.	This signal is generated only if STANDARD ANTI-INTRUDER is set.		3 7
4 FLAT-BATTERY	The battery is discharged: emergency movement is not guaranteed at changeover from mains-powered to battery-powered mode.		If the alarm goes on for more than one hour, check the following: • connections to battery • are the batteries efficient? If the alarm persists, replace the battery card. If the alarm persists, replace the batteries.	4
6 EMERG 2 ON	Emergency input 2 active.	This signal is shown whenever the EMERG2 emergency contact is active. If the WITH MEMORY function was selected for this input, the signal continues even when the contact is no longer active.	If the WITH MEMORY function was selected for the EMERG2 input, when the contact is restored, RESET is necessary to cancel the signal.	3 4
7 EMERG 1 ON	Emergency input 1 active.	This signal is shown whenever the EMERG1 emergency contact is active. If the WITH MEMORY function was selected for this input, the signal continues even when the contact is no longer active.	If the WITH MEMORY function was selected for the EMERG1 input, when the contact is restored, RESET is necessary to cancel the signal.	3 4 7
8 OBST. IN OPEN.	An obstacle was detected 3 consecutive times during the opening movement.	This signal is shown only if the following function was selected: OBSTACLE DETECTION - -> OPENING: NO STANDARD	Remove the obstacle and execute RESET to restore operation.	8
9 OBST. IN CLOS.	An obstacle was detected 3 consecutive times during the closing movement.	This signal is shown only if the following function was selected: OBSTACLE DETECTION - -> CLOSING: NO STANDARD	Remove the obstacle and execute RESET to restore operation.	7 8
10	The motor lock is locked in closed position.	This signal is shown only if the motor lock was installed: • without surveillance: the door attempts to release the motor lock 3 times and then stops in a state from which it can exit only by a RESET or by turning the emergency release knob. • with surveillance: the door stops immediately in a state from which it can exit only by a RESET or by turning the emergency release knob	Check the following: • are the motor lock connections good? • is the motor lock operating correctly? • is the motor lock surveillance kit (if any) correctly fitted and connected? If the alarm continues even after RESET, replace the motor lock card and/or the lock.	3 8
11	motor lock not closing	This signal is shown only if a SURVEILLANCE KIT was installed ON THE motor lock, and was programmed.	Check the following: • is the motor lock card inserted correctly? • are the motor lock connections good? • is the motor lock operating correctly? • is the motor lock surveillance kit correctly fitted and connected?	3 7 8
12	Incorrect power supplied to motor.		Check the following: • is connector J1 correctly fitted on control board?	4 8

13	Sensor monitoring test 2 failed on input P2	This signal is generated only if the sensor monitoring function is active.	Check the following: • sensor 2 connections • is sensor 2 in good condition and efficient?	4 7 8
14	Sensor monitoring test 1 failed on input P1	This signal is generated only if the sensor monitoring function is active.	Check the following: • sensor 1 connections • is sensor 1 in good condition and efficient?	3 4 8
15	SETUP execution is impeded in some way.	When the trouble fault is removed, SETUP starts automatically	Check the following: • the set operating function is not MANUAL, NIGHT. • operation is not battery-powered • photocells are not engaged • no emergency input is active • motor power supply absent	3 4 7 8
22	The SETUP procedure cannot be completed because excessive friction or excessive leaf weight was detected.	When this signal is generated, the display on the control board shows relative error number and the door is locked.	• cut power or set the MANUAL operating function, and then manually check if the leaves are moving correctly. • check weight of leaves	2 3 4
23	Accessory power supply +24V= dc faulty	When this signal is generated, the display of the board shows the current error and the door is locked	Check the following: • the connections and the presence of short circuits	2 3 4 7
24	A motor fault was detected during operation.	When this signal is generated, the display on the control board shows relative error number and the door is locked.	Check the following: • is connector J3 fitted correctly? • is the motor efficient? If the alarm persists, replace the control board. If the alarm persists, replace the motor.	2 8
25	control board failure		Replace the control board	2 7 8
All the LEDs of the operating functions are flashing.	No communication between SD-Keeper and control board.		Check the following: • connection length must not exceed 50 m • each connection cable must have a minimum diameter of 0.5mm ² If the alarm persists, replace the SD-Keeper. If the alarm persists, replace the control board.	

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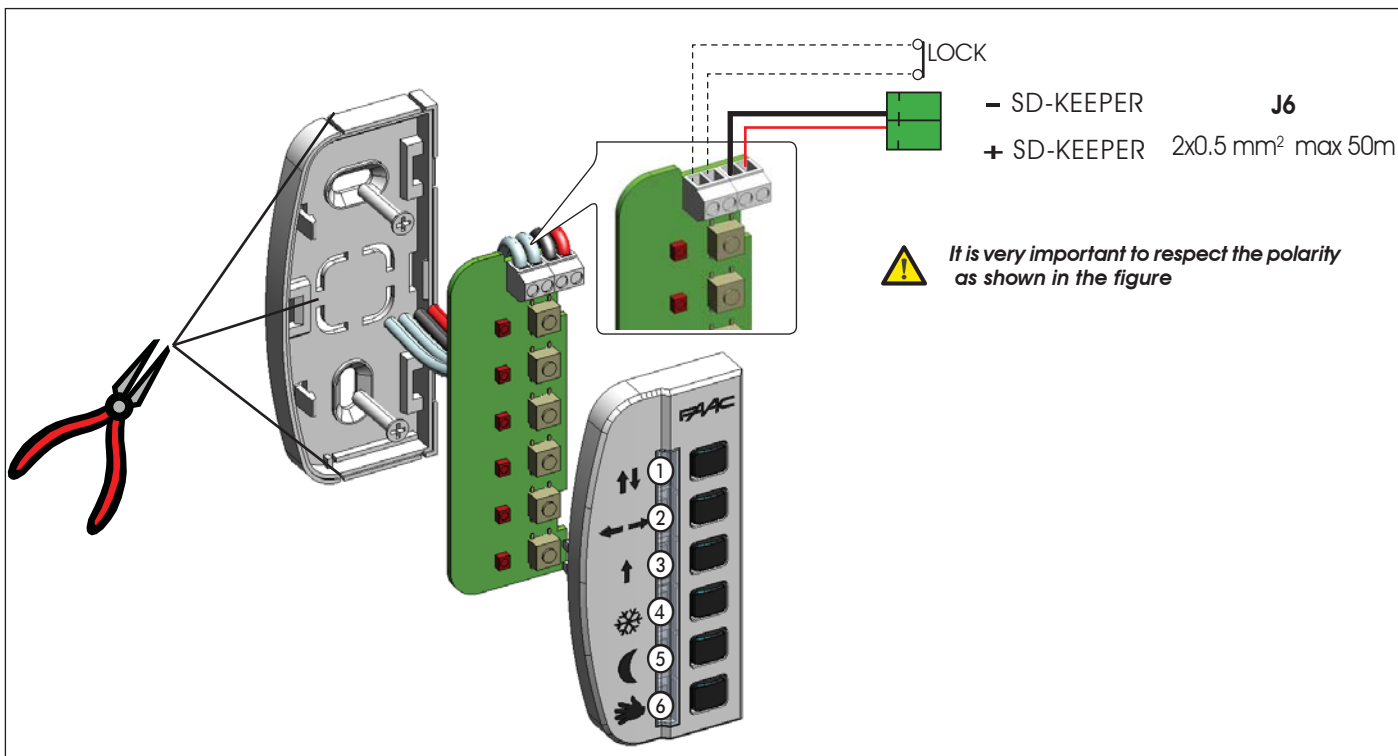
TROUBLESHOOTING

The following will help you identify and solve some particular states.

	STATE	SUGGESTION
A	SD-KEEPER off	<ul style="list-style-type: none"> • no mains power supplied and the control board is battery-powered in NIGHT operating function, and in energy saving statuses. • connection to the control board is interrupted: check the connection cables and wiring between SD-Keeper and the control board • control board not operating correctly; replace the control board
B	All leds off	<ul style="list-style-type: none"> • is the 5x20 T2,5A fuse inside the power supply unit interrupted? • Is connector J1 fitted correctly on the control board? • check connection to the power supply unit • control board not operating correctly; replace the control board
C	POWER led OFF; 24V= led ON	<ul style="list-style-type: none"> • mains power not supplied and the control board is battery-powered • if mains power is being supplied, see point B
D	door NOT CLOSING and ERROR LED off	<ul style="list-style-type: none"> • photocell/s engaged • make sure that the selected operating function is not DOOR OPEN (if no SD-Keeper is installed, make sure that input 8 of the J6 terminal board is not jumper connected to the negative) • make sure that the selected operating function is not MANUAL • check motor connection • check if power is being supplied to the motor (VMOT LED ON)
E	door NOT OPENING and ERROR LED off	<ul style="list-style-type: none"> • make sure that the selected operating function is not MANUAL • make sure that the selected operating function is not NIGHT (if no SD-Keeper is installed, make sure that input 7 of the J6 terminal board is not jumper connected to the negative) • check motor connection • make sure that the motor lock is not locked • check if power is being supplied to the motor (VMOT LED ON)
F	door CLOSES instead of OPENING and vice versa	<ul style="list-style-type: none"> • reverse the position of dip-switch 4 on the control board and execute a SETUP
G	door moving for short distances only	<ul style="list-style-type: none"> • check if encoder connector J17 is correctly inserted • check condition of the encoder • check the condition of the encoder connection flat cable
H	door movements very slow	<ul style="list-style-type: none"> • using the SD-Keeper+Display, check if the selected speed levels are as required • using the SD-Keeper+Display, check if the selected deceleration distances are as required
I	the door accelerates and decelerates suddenly during an acceleration phase in opening and / or closing.	<ul style="list-style-type: none"> • change to display the values OF, CF and tF . • Reduce the value Ar to 0

SDK-LIGHT

SDK-Light is used to select the operational functions of FAAC sliding or swing-leaf automatic doors and to display their status. The active LED corresponds to the selected operational function.



ENGLISH

①	↕	TOTAL AUTOMATIC TWO-WAY	④	❄	PARTIAL AUTOMATIC TWO-WAY
②	↔	DOOR OPEN	⑤	☾	NIGHT
③	↑	TOTAL AUTOMATIC ONE-WAY	⑥	👤	MANUAL

DIAGNOSTIC

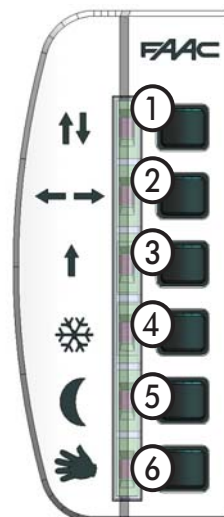
In the event of an alarm, a combination of flashing LEDs interrupts the normal display of the function for 5 sec. in order to indicate the fault. See tables below.

A100-A140 AIR


n. err.	/	1	2	3	4	6	7	8	9	10	11	12	13	14	15	18	20	22	24	25
①	↕	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●
②	↔	○	○	●	●	○	●	●	○	●	●	○	○	●	●	●	●	●	○	○
③	↑	○	○	○	○	●	●	●	○	○	○	○	○	●	●	○	○	○	○	○
④	❄	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
⑤	☾	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
⑥	👤	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

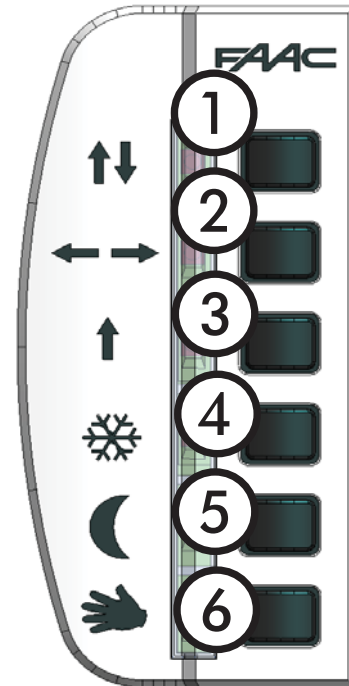


Please refer to the number indicated on the first line for the description of the errors and consult the instructions of the automatic door being used.



SPECIAL FUNCTIONS

SETUP		① + ⑥ 5 sec,
LOCK / UNLOCK		② + ⑤ 5 sec,
RESET		③ + ④



ENGLISH

Setup

Setup is the door initialisation function during which parameters are self-learned. To activate, simultaneously press keys ① and ⑥ for 5 sec.

Reset

Reset is the function for restoring normal operating conditions after some types of alarm have been signalled.

To activate, simultaneously press keys ③ and ④ .

Lock

When active, the Lock function disables SD-Keeper.

To activate (and de-activate), simultaneously press keys ② and ⑤ for 5 sec.

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