D700HS







Translation of the original instructions

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USER'S GUIDE - MAINTENANCE REGISTER - PICTURES COLLECTION

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GENERAL SAFETY INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE

For an efficient and safe automated door. correctly observe the installation procedures and instructions for use. Incorrect installation and use can cause serious damage to persons and property.

Carefully read the whole installation manual before you begin installing. Do not make any modifications which are not mentioned in this manual. Do not install the operator for uses other than those indicated. To fasten, use the supplied accessories or, in any case, fastening systems (screws, expansion plugs, etc.) suitable for the type of support and for the mechanical stresses exerted by the automated system. Check if the sectional door conforms to standards EN12604 and EN 12605 (the information can be found in the documentation accompanying the door itself). For non-EU countries, the above mentioned standards must be observed in addition to the national standard references to obtain a suitable safety level. Make sure that the door is correctly balanced, correctly operational, and supplied with mechanical opening stops. When installing we advise you to: • obtain the material and tools indicated in the following paragraph "Tools and materials" and keep them near at hand. • use a stable support for performing operations without a floor support. protect your face and hands adequately before making the holes with the drill. • do not allow children to play near during installation, use and during the automated system release manoeuvre. • remove any debris and objects which could hamper movement, before powering up the system. • remove the door's closing mechanism to ensure the door is closed by the automatism. • stick on the warning stickers as shown in the instruction.

- install the manual release devices at a height of not over 180 cm.
- •install the external control devices at a height of not below 150 cm, clear of the door movement area, but in a position enabling visual control of the area.

When you have finished installing we advise you to:

- check if the anti-crushing device is able to detect a 50 mm high object on the ground and if a weight of 20 kg applied to the door, causes the opening movement to stop.
- make sure that no part of the door interferes with public spaces such as pavements and/or roads.
- Use the automated system observing the instructions in the "User's guide".
- Fill in, keep and update the maintenance register.
- The D700HS automated system does not require periodic replacement of parts.
- Every month, run a functional check of the safety devices and of the anti-crushing system: a non-deformable object with a height of 50 mm laid on the ground, must be correctly detected.
- If the power cable of operator D700HS is damaged, it must be replaced by qualified personnel, using a new cable of the same type. Do not use different power cables.





The automated system must not be used by children or people with reduced physical, mental, sensorial capacity or by people without experience or the necessary training.

Children must not handle the automated system and must always be under surveillance.

TOOLS AND MATERIALS

Tools you will require to install the D700HS operator (Fig. 1):

- a hammer drill with relevant wall and iron bits
- screwdrivers for cross-head and cut-head screws
- •two flat wrenches for 13 mm hexagon head screws

Material required for installing the D700HS operator and the relevant accessories (if present):

- cable 2x0,5 mm² (emitting photocells, pulse generators for opening movement and stop)
- cable 4x0.5 mm² (receiver photocells)
- cable 2x1.0 mm² (flashing lamp)
- •cable 2 x1.5 mm² (power)

Use cables with an adequate degree of insulation. The electric system must conform to the prescriptions in the chapter entitled "Warnings for the installer".

The 230 Vac power cable must be laid and connected by a qualified installation technician. Arrange for a 2P 10A 250 V socket to be installed near the operator.

Lay the cables in the appropriate pipes and do not allow loose cables to come into contact with moving parts of the automated system and the door.



EU DECLARATION OF CONFORMITY

The Manufacturer

Company name: FAAC S.p.A. Soc. Unipersonale Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY Address:

hereby declares on his sole responsibility that the following product:

Vertical movement garage door actuator for single **Description:** residential use D700HS

Model:

complies with the following applicable EU legislations:

2014/30/EU 2011/65/EU

Furthermore, the following harmonised standards have been applied:

CE0

EN 61000-6-2:2005 EN 61000-6-3:2007 + A1:2011

Bologna, Italy, 01-10-2019

A. Marcellan A Mant

EC DECLARATION OF CONFORMITY OF A MACHINE (2006/42/EC ANN.II P.1, LETT. A)

Manufacturer and person authorised to compile the technical file

Company name: FAAC S.p.A. Soc. Unipersonale

Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY

hereby declares that the following machine:

Description: Vertical movement garage door actuator for single residential use

Model:

Address:

complies with the following applicable EU legislations:

D700HS

2006/42/EC (including all applicable amendments)

and that the technical file has been compiled in compliance with part A of Annex VII. Furthermore, the following harmonised standards have been applied:

EN 60335-2-95:2015 + A1:2015

Bologna, Italy, 01-10-2019 CF0 A. Marcellan

A Moul

WARNINGS FOR THE INSTALLER **GENERAL SAFETY OBLIGATIONS**

- 1) ATTENTION! To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product could cause serious harm to people.
- 2) Carefully read the instructions before beginning to install the product.
- 3) Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger.
- 4) Store these instructions for future reference.
- 5) This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danaer.
- FAAC declines all liability caused by improper use or use other than 6) that for which the automated system was intended.
- 7) Do not install the equipment in an explosive atmosphere: the presence of inflammable gas or fumes is a serious danger to safety.
- The mechanical parts must conform to the provisions of Standards EN 8) 12604 and EN 12605. For non-EU countries, to obtain an adequate level of safety, the Standards mentioned above must be observed, in addition to national legal regulations.
- 9) FAAC is not responsible for failure to observe Good Technique in the construction of the closing elements to be motorised, or for any deformation that may occur during use.
- The installation must conform to Standards EN 12453 and EN 12445. 10) For non-EU countries, to obtain an adequate level of safety, the Standards mentioned above must be observed, in addition to national legal regulations.
- 11) Before attempting any job on the system, cut out electrical power.
- 12) The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm or greater. Use of a 6A thermal breaker with all-pole circuit break is recommended.

- 13) Make sure that a differential switch with threshold of 0.03 A is fitted upstream of the system
- 14) Make sure that the earthing system is perfectly constructed, and connect metal parts of the means of the closure to it.
- 15) The safety devices (EN 12978 standard) protect any danger areas against mechanical movement Risks, such as crushing, dragging, and shearing.
- 16) Use of at least one indicator-light (e.g. FAACLIGHT) is recommended for every system, as well as a warning sign adequately secured to the frame structure, in addition to the devices mentioned at point "15"
- 17) FAAC declines all liability as concerns safety and efficient operation of the automated system, if system components not produced by FAAC are used.
- 18) For maintenance, strictly use original parts by FAAC.
- 19) Do not in any way modify the components of the automated system.
- 20) The installer shall supply all information concerning manual operation of the system in case of an emergency, and shall hand over to the user the warnings handbook supplied with the product.
- 21) Do not allow children or adults to stay near the product while it is operating.
- 22) Keep remote controls or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
- Transit under the door must occur only when the automated system has 23) stopped
- 24) The user must not attempt any kind of repair or direct action whatever and contact qualified personnel only.
- 25) Maintenance: check at least every 6 months the efficiency of the system, particularly the efficiency of the safety devices (including, where foreseen, the operator thrust force) and of the release devices.
- 26) Anything not expressly specified in these instructions is not permitted.

Read this instruction manual thoroughly before starting with the installation of the product.

The symbol indicates notes that are important for the safety of persons and for the good condition of the automated system.

3

The symbol draws your attention to the notes on the characteristics or the operation of the product.

ENGLISH

D700HS

AUTOMATED SYSTEM D700HS

These instructions apply to FAAC D700HS model.

The D700HS automated systems automate balanced sectional doors of single garages for residential use. They consist in an electro-mechanical operator, an electronic control unit and a courtesy lamp integrated in a single enbloc that, ceilingmounted, enables the door opening thanks to a chain or belt transmission.

The non-reversing system guarantees the mechanical block of the door when the motor is not operating and therefore there is no need to install a lock; an internal and an external (optional) manual release make it possible to move the door in the event of a power cut or malfunction. The operator is equipped with an electronic device that detects the presence of obstacles, if any, preventing the door movement and avoiding any crushing or lifting. These instructions refer to the operator with chain drive, however, the same procedures, adjustments and application limits also apply for the operator with belt drive.

The D700HS automated systems were designed and built for internal use and to check the vehicle access. Avoid any other use.

1. DIMENSIONS

For the dimensions of the **FAAC D700HS** operator, consult Fig. 3 and Chapter 2: <u>Technical Specifications.</u>

2. TECHNICAL SPECIFICATIONS

Model	D700HS							
Power supply (V~ / 50 Hz)	230							
Electric motor (Vdc)	24							
Max. absorbed power (W)	440							
Thrust force (N)	700							
Rated Operating Time (R.O.T.)	18 min. at 55 °C							
Max. overall dimensions from ceiling (mm)	35 (Fig. 5)							
Courtesy lamp (V~ / W)	230 / 40 max.							
Courtesy lamp timing (s)	120							
Carriage standard no-load speed (m/min)	12							
Carriage reduced no-load speed (m/min)	3.8							
Carriage decelerated speed (m/min)	1.3							
Standard speed noise (dBA)	52							
Deceleration travel length	Can be varied from setup							
Intrinsic safety device	Class 2							
Sectional door max. width (mm)	5000							
Maximum door travel (mm) [auide size]	1900 2500 3100 3700 [2400] [3000] [3600] [4200]							
Protection class	Only for internal use (IP20)							
Operating ambient temperature (°C)	-20 / +55							

The noise emission level of the D700HS operator, referred to the work station, is 52 dB(A).

3. TOOLS, MATERIALS AND ELECTRIC PREPARATIONS

The necessary material for installing the D700HS operator is:

	ТҮРЕ	Ø (mm ²)	QTY.
1	Network Power Supply	ø 1,5	2
2	Operator Power Supply	ø 1,5	2
3	Flashing lamp	øl	2
4	RX photocells	ø 0,5	4
5	TX photocells	ø 0,5	2
6	Key-operated selector	ø 0,5	2
7	Low-Voltage tubes	-	-



- Use cables with a suitable insulation class.
- The electrical system must comply with the instructions given in chapter "Warnings for the installer".
- The power cable with 230V~ must be laid and connected by a qualified installer. Close to the operator have a socket, type 2P 10A 250 V~, installed.
- Lay cables in suitable tubes and prevent free cables from entering into contact with moving parts of the automated system and of the door.
- Separate low-voltage cable and 230V~ power cables in different tubes.
- Prepare the electrical system in compliance with the instructions given in chapter "Warnings for the installer".
- After installation, make sure that no tubes or external cables can come in contact with moving parts.
- Install the fixed command points at a minimum height of 150 cm, distant from the area involved in the door movement, but in such a position to be checked visually.

4. DESCRIPTION

The description of the FAAC D700HS operator refers to Fig. 4.

- Ceiling fitting
- Rear door
- ③ Courtesy lamp
- ④ D700HS operator plastic cover
- (5) Rear fitting
- 6 Sliding guide
- ⑦ Driving carriage
- ⑧ Driving carriage
- Door fitting bracket
- 1 Transmission unit
- (1) Front fitting and chain-tensioner
- Pront fitting bracket

1 AB



5. PRELIMINARY CHECKS

- The door structure must be suitable for being automated. In particular make sure that the door dimensions correspond to those indicated in the technical specifications and that the door is sturdy enough.
- Check if the door complies with EN12604 and EN12605 standards.
- During movement, the door must not invade public areas destined to pedestrian or vehicle transit.
- Check the efficiency of bearings and couplings of the door.
- Make sure that the door has no friction; if any, clean and lubricate the guides with silicone-based products, avoiding the use of grease and, in any case, in compliance with the instructions of the manufacturer.
- Check the correct balance and if the mechanical opening stops are present.
- Remove the mechanical closures of the door so that it is the automated system that blocks it when closed.
- Check if a space of at least 35 mm is available between the ceiling and the highest sliding point of the door (Fig. 5).
- Check if the upper guide roller of the sectional door is in the horizontal part of the guide when the door is closed (fig. 6).

6. ASSEMBLY

6.1. Sliding guide

If a two-piece sliding guide is used, you need to assemble it observing the instructions below. If you have an already assembled guide, go to paragraph 6.2.

- Assemble both pieces of the sliding guide inserting them into the central joint (Fig. 7 rif. A) until the metal references reach the stop point (Fig. 7 rif. B). To facilitate the coupling of the sliding guide, we recommend you to insert it in the central joint pressing it as shown in Fig. 7 ref. C. Do not use tools which could deform the guide or the joint.
- 2) Slide the transmission unit (Fig. 8 ref. A) along the whole sliding guide until it is close to the front terminal, i.e. the one opposed to the drive coupling unit.
- 3) Assemble the front fitting (Fig. 8 ref. B) to the transmission unit (Fig. 8 ref. A).
- Slightly tension the chain by tightening the nut (Fig. 8 ref. C).
- 5) Lay the sliding unit on its side (Fig. 9). Push the carriage to the drive coupling unit (Fig. 9 ref. C).
- 6) Adjust the tensioner (fig. 9 ref. A) so that the central area of the loop, formed by the upper section of the chain, almost matches the center line of the sliding guide (Fig. 9 ref. B)

Attention: excessive tensioning can damage the transmission and drive coupling units.

6.2. Rear fitting

D700HS

Before fixing the sliding guide to the ceiling, assemble the rear fitting in the relevant seat on the drive coupling unit and tighten the screws as shown in Fig. 10 ref. (1).

6.3. External release (optional)

If the installation of an external release system is foreseen, you must lay the small cable before starting with the installation:

- Release the carriage (see par. 7.4. point 3) and take it to the slot on the upper part of the sliding guide.
- Fit the terminal of the small cable into its relevant red seat (Fig. 11).
- Move back the carriage toward the drive coupling unit until the through hole on the carriage matches the slot and route the cable without sheath (Fig. 12).
- Draw out completely the cable from the lower part of the carriage.
- 5) Wind the cable to prevent it from being of hindrance during the installation of the sliding guide.

7. INSTALLATION

- In order to work in safety conditions, we recommend you to install the operator keeping the door completely closed.
- Use all anchoring points provided.
- The securing systems must be suitable for the type of support and must be sturdy enough.
- Suitably protect face and hands during drilling.
- Read this chapter thoroughly before starting with the installation.

7.1. Sliding guide

After having completed the preliminary assembly operations, you can proceed with the installation of the sliding guide operating as follows:

- 1) On the lintel mark a line corresponding to the vertical center line of the door (Fig. 13).
- 2) On the lintel mark a horizontal line corresponding to the max. height reached by the door during movement (see Fig. 5).
- 3) Place the fixing bracket of the front fitting leaving the bottom edge at least 5 mm over the intersection point of the lines and centered with respect to the vertical line (Fig. 13). Please refer also to paragraph 7.2. for the correct position of the bracket with respect to the fitting point of the door.
- 4) Mark both fixing points.
- 5) Drill and mount using the screws (ref. (1) Fig. 13) that are **NOI** standard supplied.
- 6) Place the sliding guide on the ground, perpendicular to the door.
- Lift the guide from the front fitting and assemble this fitting with the fixing bracket using the through screw and the clamp (Fig. 14).
- 8) Lift the sliding guide until the rear fitting is at the same level of the front fitting or until reaching the same inclination of the door horizontal rail. In the event of a direct fixing to the ceiling, go to point 12.
- Measure the distance between ceiling and the distance between centers of the nuts securing the rear fitting.
- 10) Fold the supplied brackets to the detected measure (measure starting from the middle of the first bracket slot).
- 11) Mount the brackets on the rear fitting and position the sliding guide again (Fig. 15).
- 12) Mark the fixing points on ceiling of the rear fitting and drill (taking care to protect the sliding guide). Complete the installation of the guide.
- 13) If a two-piece guide with central union (Fig. 16 ref. A) or the central support for a single rail (Fig. 16 ref. B - optional) are used, secure to the ceiling using the suitable brackets and observing the steps 9,10 and 12 (Fig. 16).

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7.2. Fitting on the door

- Assemble the fitting with the carriage rod (Fig. 17). Place the fitting on the door in order that the through hole of the release cable is directed toward the left side of the door (ref. 1) Fig. 18).
- 2) Close the door and take the carriage to it.
- 3) Place the fitting on the door centered to the center line of it.
- 4) Check if the distance between centres of the securing holes of the front fitting and of the fitting on the door does not exceed 20 cm (Fig. 18). For a correct operation of the automated system, we recommend you to avoid arm inclination over 30° with respect to the sliding guide. If a curved arm for sectional door (optional) is used, perform the assembly with the straight arm of the carriage as shown in Fig. 19. To improve the efficiency of the anti-crushing system, we recommend you to secure the fitting on the sectional door as down as possible without exceeding however the distance of 40 cm from the front fitting of the operator. (Fig. 19)
- Mark, drill and secure the fitting to the door using the screws (ref. (2) Fig. 18) that are <u>NOT</u> standard supplied.

7.3. Operator

After having assembled the rear fitting with the sliding guide and after having completed the installation of the sliding guide, you can mount the operator:

- Keep the operator inclined by 15°/20° (Fig. 21), insert the gearmotor shaft into the coupling in the rear fitting of the sliding guide and move the fins (Fig. 20 rif. ①) close to the seats on the bottom of the operator (Fig. 20 rif. ②).
- 2) Turn the operator in the direction given in Fig. 21 until reaching the position shown in Fig. 22.
- 3) Insert the shear pin (Fig. 22 ref. (1)). Bend the mounting lug (ref. (2)).

7.4. Release device of the automated system

- Define the height of the release knob, taking into consideration that it must not exceed a height of 180 cm off the ground, then cut the rope in excess.
- 2) Make a knot at the end of the rope and assemble the release handle (Fig. 23).
- 3) Pull downwards the release handle and check if the door can be moved manually (Fig. 23).
- 4) To lock again the operator, pull the release handle horizontally to the door (Fig. 24). Check if, when the handle is released, the LOCK window, which is located under the carriage, is red. Move the door manually until reaching again the coupling point of the carriage.

Prevent people, animals or objects from standing within the movement area of the door during the release operation.

7.5. External release

If the automated system has an external release, you need to complete the installation you have already begun (see par. 6.3.): 1) Cut the cable sheath to measure (Fig. 25 ref. A).

- 2) Route the cable into the sheath and through its relevant eyelet of the fitting on the door (Fig. 25 ref. B).
- 3) Cut the cable to measure and assemble it with the internal lever of the release handle (Fig. 25 ref. C).

8. E700HS CONTROL BOARD

8.1. Technical specifications and components

Voltage p	ower supply (V ~ / Hz)	230 / 50							
Power sup	oply to accessories (V=)	24							
Accessori	es max. load (mA)	200							
Operating	g ambient temperature (°C)	-20 / +55							
Rapid cor	nnector	For XF433 / XF868 receiving cards and battery module							
Operating	g logics	Automatic/Semiautomatic							
Terminal b	poard connections	Open/Stop/Safety devices/ Fail Safe/ Flashing lamp 24 Vdc.							
Courtesy	lamp timing (min.)	2							
JI	Low-voltage terminal board	tor inputs/accessories							
J2	Rapid connector for XF433 o	r XF868 receivers							
J3	230V power supply input ter	biaod innin							
J4	Transformer primary connec	tor							
J5	Courtesy lamp terminal boa	ırd							
J7	Transformer secondary conr	nector							
J8	Motor output connector								
J12	Battery module connector								
OPEN A	Radio signal programming p	oush-button							
OPEN B	Radio signal programming p	oush-button							
OPEN	OPEN push-button								
SETUP	SET UP push-button								
D\$1	Programming dip-switch								
LD1	OPEN input signalling LED								
LD2	STOP input signalling LED								
LD3	FSW input signalling LED								
LD4	SET UP cycle signallina LED								
LD5	OPEN A radio channel mem	ory-storing signalling LED							
LD6	OPEN B radio channel mem	nory-storing signalling LED							





8.2. Terminal boards and connectors

Description	Connected device
OPEN A	Control device with NO contact (see chapter OPERATING LOGICS)
STOP	Device with NC contact, that causes the block of the automated system
Θ	Negative for OPEN A and STOP devices
FSW	Closing safety device with NC contact (see chapter OPERATING LOGICS)
LAMP	OPEN COLLECTOR output, 24 V=, 100 mA., for flashing lamp
-TX FSW	Safety accessory power supply negative (FAIL SAFE function)
Θ	Accessory power supply negative
\oplus	+24 V= accessory power supply

8.3. DS1 Programming dip-switches

No. function	OFF	ON
1 Fail Safe/Door closed status	Fail Safe	Door closed (the output activates when the door is closed)
2 Anti-crushing sensitivity	Low	High
3 Opening/Closing speed	Same	Closing at reduced speed
4 Carriage speed	High	Low

Fail Safe

If activated, it enables the test on the photocell operation before every movement.

Anti-crushing sensitivity

In the event of irregular movement of the doors, it enables to reduce the sensitivity of the anti-crushing device to avoid unwanted operations.

8.4. Operating logics

Logic A (automatic)

Status	Open (pulse)	Stop	Fsw
CLOSED	Opens and closes again after pause time	No effect (2)	No effect
OPENING	No effect	Blocks (2)	No effect (1)
OPEN IN PAUSE	Restarts pause time count (1)	Blocks (1)	Restarts pause time count (1)
CLOSING	Reverses movement	Blocks (2)	Reverses movement
BLOCKED	Closes	No effect (2)	No effect (1)

Logic E (semi-automatic)

Status	Open (pulse)	Fsw	
CLOSED	Opens	No effect (2)	No effect
OPENING	Blocks	Blocks (2)	No effect (1)
OPEN	Closes	No effect (2)	No effect (1)
CLOSING	Reverses movement	Blocks (2)	Reverses movement
BLOCKED	Closes	No effect (2)	No effect (1)

(1) With maintained pulse, it inhibits closure.

If an obstacle is detected at closure in the same position for three consecutive times, the automated system considers this position as the new closing stop point and changes over to closed status. To restore the correct positions, remove the obstacle and command a new cycle: on next closure, the automated system moves at decelerated speed until it locates the stop point.



⁽²⁾ With maintained pulse, it inhibits closure and/or opening.

During the opening movement, the intervention of the anti-crushing device causes immediate stop. During the closing movement, it re-opens the door.



9. COURTESY LAMP

- The courtesy lamp stays ON for 2 minutes after the end of the movement (cannot be modified).

10. CONNECTIONS

ATTENTION: Before performing any operation on the board (connections, maintenance), always cut electric power.

- To avoid any electrical disturbance, use separate sheaths for mains power supply, signals and accessories.
- The D700HS operator has a cable with two-pole plug for the 230 Vac power supply.
- To connect external commands, safety devices and signals, open the relevant pre-cut part (Fig. 26 ref. ①).
- To connect the safety edge (see par. 18.3.), open the relevant pre-cut part (Fig. 26 ref. (2))
- Perform the electrical connections referring to Fig. 28.

If the **STOP** input is not used, jumper connect the input to the terminal Θ .

If no photocells are used, connect the **FSW** input to the terminal **-TX FSW**.

Input status LEDs:

LD	Megning	OFF	ON
1	OPEN input status	Not active	Active
2	STOP input status	Active	Not active
3	FSW input status	Safety devices engaged	Safety devices not engaged

The condition with automated system stopped and at rest is shown in bold for every input.

11. PROGRAMMING

11.1. Board settings

Set the control board using the DS1 dip-switches, referring to chapter 8.3 to obtain the requested operation.



 To select the Opening/Closing speed, set the dip-switch 3 of D\$1, as indicated in chapter 8.3.
 We recommend you to set the dip-switch 3 to ON.

11.2. Learning (SET UP)

During the learning procedure, the obstacle detection device is not operating. The STOP command and the closing safety devices (FSW) are instead active; their operation stops the learning phase and signals a fault.



The SET UP cycle must be performed with mounted cover. Just remove the rear door (Fig. 27). Seize with both hands the rear door and gently draw downwards. At the end of the procedure indicated in this chapter, mount the door again.

The learning cycle enables you to define the following:

- necessary thrust to move the door.
- deceleration points.
- stop points at opening and closing.
- pause time (in automatic logic).

The learning phase must begin when the operator is blocked, independently of the door position.

The procedure also determines the operating logic.

The logic tables indicate the behaviour of the automated system in the different conditions and following to commands or operation of the safety devices.

The learning phase can be performed in both automatic or manual mode; in this latter case, you can determine the deceleration points at opening and closing; in the automatic mode, instead, the control board autonomously determines the movement parameters.

If the procedure is not completed correctly (i.e. due to excessive friction during door movement), the board signals the fault status (the SET UP LED flashes slowly). In this case, after having removed the cause, you need to repeat the procedure.

AUTOMATIC LEARNING WITH LOGIC "E" (SEMI-AUTOMATIC)



NOTE: it is recommended to perform this learning phase with **SLOW** speed. (dip-switch **4** = **ON**)

Press the SET UP push-button for one second. (Fig. 36 ref. (1)) The SET UP LED starts flashing as soon as the push-button is released. (Fig.36 ref. (2))

- After 8 seconds, the operator automatically performs a closing movement until reaching the stop point.(Fig. 37 ref.
 (3)
- 2) The operator starts the opening movement. Wait for it to reach the stop point or send an OPEN command (Fig. 38 ref.
 (4) in the position where you want to stop the movement.
- 3) The operator closes the door again.
- 4) Wait for the door to reach the stop point and for the operator to stop.

If the learning procedure has ended successfully, the SET UP LED (Fig. 39 ref. (5)) stops flashing and stays ON for 5 seconds.

During these 5 seconds you can send OPEN pulses (Fig. 39 ref. (6)), in order to decrease the load on the release system,

within 2 seconds from each other to move the carriage back. A pulse corresponds to a 5 millimetres stroke.

N.B.: The back movement of the carriage can only be seen during the normal operation of the automated system. The deceleration points are defined by the control unit.

MANUAL LEARNING WITH LOGIC "E" (SEMI-AUTOMATIC)

Press the SET UP push-button for one second. (Fig. 40 ref. ()) The SET UP LED starts flashing as soon as the push-button is released. (Fig. 40 ref. (2))

Start the following procedure within 8 seconds (otherwise the operator performs the automatic learning):

- 1) Send the 1st OPEN command: the operator performs a decelerated closing movement until it detects the stop point, then it stops.(Fig. 41 ref. 3) and Fig. 42 ref. 4)
- 2) Send the 2nd OPEN command: the operator continues with an opening movement. (Fig. 41 ref. 3) and Fig. 42 ref. (4)
- 3) Send the 3rd OPEN command to define the point in which the deceleration should start. (Fig. 41 ref. (3) and Fig. 42 ref. (4))
- Send the 4th OPEN command to define the opening stop point, or wait for the automated system to detect the stop point and to stop. (Fig. 41 ref. (3) and Fig. 42 ref. (4))
- 5) Send the 5th OPEN command: the automated system starts the closing movement. (Fig. 41 ref. ③ and Fig. 42 ref. ④)
- 6) Send the 6th OPEN command to define the point in which the deceleration should start. (Fig. 41 ref. ③ and Fig. 42 ref. ④)
- 7) Wait for the door to reach the stop point and for the operator to stop. (Fig. 42 ref. ④)



If the learning procedure has ended successfully, the SET UP LED (Fig. 43 ref. (5)) stops flashing and stays ON for 5 seconds.

During these 5 seconds, in order to decrease the load on the release system, you can send OPEN pulses (Fig. 43 ref. (6)) within 2 seconds from each other in order to move the carriage back. A pulse corresponds to a 5 millimetre stroke.

N.B.: The moving back of the carriage can only be seen during the normal operation of the automated system.

AUTOMATIC LEARNING WITH LOGIC "A" (AUTOMATIC)



NOTA: we recommend you to perform this learning at LOW speed. (dip-switch 4 = ON)

Hold down the SET UP push-button until the SET UP LED lights on (approx.5 seconds). (Fig. 44 ref. (1)) On release of the push-button, the SET UP LED starts flashing. (Fig. 44 ref. (2))

- 1) After 4 seconds the operator automatically performs the decelerated closing movement until it detects the stop point. (Fig. 45 ref. (3))
- 2) The operator performs the door opening. Wait for the door to reach the stop point or send an OPEN command (Fig. 46 ref. (4) in the position where you want to stop the movement.
- The operator closes the door again. 3)
- Wait for the door to reach the stop point and for the operator 4) to stop.

If the learning procedure has ended successfully, the SET UP LED (Fig. 47 ref. (5)) stops flashing and stays on for 5 seconds.

During these 5 seconds, in order to decrease the load on the release system, you can send OPEN pulses (Fig. 47 ref. (6)) within 2 seconds from each other in order to move back the carriage. A pulse corresponds to a 5 millimetre stroke.

N.B.: The moving back of the carriage can only be seen during the normal operation of the automated system.

The deceleration points will be defined by the control unit. The pause time is fix (3 minutes).

MANUAL LEARNING WITH LOGIC "A" (AUTOMATIC)

Hold down the SET UP push-button until the SET UP LED lights on (approx. 5 seconds). (Fig. 48 ref. (1)) On release of the push-button, the SET UP LED starts flashing. (Fig. 48 ref. 2) Start the following procedure within 4 seconds (otherwise the

operator performs the automatic SET UP).

- 1) Send the 1st OPEN command: the operator performs a decelerated closing movement until it detects the stop point. (Fig. 49 ref. 3) and Fig. 50 ref. 4)
- 2) Send the 2nd OPEN command: the operator starts with an opening movement. (Fig. 49 ref. (3) and Fig. 50 ref. (4)
- 3) Send the 3rd OPEN command to define the point where you want to start the deceleration. (Fig. 49 ref. 3) and Fig. 50 ref. (4))
- 4) Send the 4th OPEN command to define the opening stop point, or wait for the automated system to detect the stop point. Following to the stop, the count of the time starts, during which the automated system stays open. This corresponds to the pause time that will be observed during normal operation (max. 3 minutes). (Fig. 49 ref. (3) and Fig. 50 ref. (4))
- 5) Send the 5th OPEN command: the pause time count stops and the closing movement begins. (Fig. 49 ref. (3) and Fig. 50 ref. (4))
- 6) Send the 6th OPEN command to define the point where you want to start the deceleration. (Fig. 49 ref. (3) and Fig. 50 ref. C)
- 7) Wait for the door to reach the stop point and for the operator to stop. (Fig. 50 ref. ④)

If the learning procedure has ended successfully, the SET UP LED (Fig. 51 ref. (5)) stops flashing and stays on for 5 seconds.

During these 5 seconds, in order to decrease the load on the release system, you can send OPEN pulses (Fig. 51 ref.(6)) within 2 seconds from each other to move back the carriage. A pulse corresponds to a 5 millimetre stroke.

N.B.: The moving back of the carriage can only be seen during normal operation of the automated system.

MANUAL SETTING OF THE STOP POINT ON GROUND (in learning mode)

During the learning stage, the operator searches for the stop point on ground using the max. force that can be applied. To avoid excessive stress, you can determine the stop point manually: when the automated system performs the closing movement, send an OPEN command as soon as the stop point has been reached. If the stop commands at the first and at the second closing movement are incongruent, the automated system will signal the fault status and the learning cycle must be repeated.

During the normal operation, the automated system searches in any case for the stop point, but it only exercises the necessary force to move the door.



The sensitivity of the anti-crushing device depends on programming (anti-crushing sensitivity) and on the mechanical characteristics of the door. At the end of installation and programming, always perform the checks according to the standards mentioned in the chapter "WARNINGS FOR THE INSTALLER" of these instructions.

At the end of the learning cycle, perform a complete cycle of the automated system in order to acquire the correct closing stop point. If, at the end of this cycle, the automated system reopens the door, command a re-closure.

11.3 Pre-flashing

You can activate and disable the pre-flashing function (following to an OPEN command, the unit activates the flashing lamp for 5 seconds before starting the movement) acting as follows:

- 1) Press the SET UP push-button and hold it down.
- 2) After approx. 3 seconds press the OPEN push-button. If the SET UP LED lights on, it means that the pre-flashing is active; if, on the contrary, it remains off, it means that the pre-flashing is disabled.
- 3) Release both push-buttons.

ENGLISH

12. MEMORY STORING THE RADIOCONTROL CODE

The control unit has an integrated two-channel decoding system (DS, SLH, LC), named OMNIDEC.

This system makes it possible to memory store – via an additional receiving module (Fig. 29 ref. ①) and radio controls with the same frequency – both the total opening (OPEN A) and the partial opening (OPEN B) of the automated system.

The 3 radio coding types (DS, SLH, LC) cannot coexist. Only one radio code can be used at a time. To change over from one code to the other, delete the existing one (see paragraph concerning deletion), and repeat the memory storing.

12.1. Memory storing the DS radio controls

- You can memory store up to a maximum of 2 codes. One on the OPEN A channel and the other on the OPEN B channel.
- 1) On the DS radio control select the required ON-OFF combination of the 12 dip switches.
- 2) Press, for 1 second, the OPEN A or OPEN B (Fig. 30 ref. (2)) push-button to respectively memory store total or partial opening.
- 3) The corresponding LED (Fig. 30 ref. (1)) starts flashing slowly for 5 seconds.
- 4) Within these 5 seconds press the required push-button on the radio control.
- 5) The corresponding LED lights up with steady beam for 1 second and then turns off to indicate that the radio control has been memory stored.
- 6) To add further radio controls set the same ON-OFF combination used in point 1).

12.2. Memory storing the SLH radio controls

You can memory store up to a maximum of 250 codes, subdivided between OPEN A and OPEN B. B channel.

- 1) On the SLH radio control press and hold down the push-buttons P1 and P2 simultaneously.
- 2) The LED of the radio control begins to flash.
- 3) Release both push-buttons.
- Press, for 1 second, the OPEN A or OPEN B (Fig. 30 ref. (2)) push-button to respectively memory store total or partial opening.
- 5) The corresponding LED begins to flash slowly for 5 seconds. (Fig. 30 ref. (1))
- 6) Within these 5 seconds, while the LED of the radio control is still flashing, press and hold down the required push-button on the radio control (the LED of the radio control lights up with steady beam).
- 7) The LED on the board lights up with steady beam for 1 second and then turns off to indicate that the radio control has been memory stored.
- 8) Release the push-button of the radio control.
- 9) Press twice the push-button of the memory stored radio control in brief succession.

The automated system performs an opening movement. Make sure that the automated system is free from any obstacle created by persons or things.

- 10) To add other radio controls you need to transfer the code of the push-button of the memory-stored radio control to the corresponding push-button of the radio control to add, observing the following procedure:
 - On the memory-stored radio control press and hold down the push-buttons P1 and P2 simultaneously.
 - The LED of the radio control begins to flash.

- Release both push-buttons.
- Press the memory stored push-button and hold it down (the LED of the radio control lights up with steady beam).
- Put the radio controls close to each other and hold down the corresponding push-button of the radio control to add, releasing it only after a double flashing of the LED of the radio control indicating that the radio control has been stored in the memory.
- Press twice the push-button of the just memory-stored radio control in brief succession.



The automated system performs an opening movement. Make sure that the automated system is free from any obstacle created by persons or things.

12.3 Memory storing the RC radio controls

You can memory store up to a maximum of 250 codes, subdivided between OPEN A and OPEN B.

- 1) Use the RC remote controls only with a receiving module with 433MHz.
- Press, for 1 second, the OPEN A or OPEN B push-button (Fig. 30 ref. (2)) to memory store respectively total or partial opening.
- 3) The corresponding LED begins to flash slowly for 5 seconds. (Fig. 30 ref. (1))
- 4) Within these 5 seconds, press the required push-button on the RC remote control.
- 5) The LED lights up with steady beam for 1 second, indicating that the radio control has been memory stored, and then resumes flashing for 5 seconds during which you can memory store another radio control (point 4).
- 6) At the end of the 5 seconds, the LED turns off indicating that the procedure has been completed.
- 7) To add other radio controls repeat the operation from point 1).

12.3.1 Remote memory storing the RC radio controls

Only with RC radio controls you can memory store other radio controls in a remote more, that is without using the RADIO SETUP push-buttons, but using a previously memory stored radio control.

- 1) Take a radio control which has been already memory stored on one of the 2 channels (OPEN A or OPEN B).
- 2) Press and hold down the push-buttons P1 and P2 simultaneously until both LEDs on the board start flashing.
- 3) Both LEDs flash slowly for 5 seconds.
- 4) Within 5 seconds, press the previously memory stored pushbutton of the radio control to activate the learning phase on the selected channel (OPEN A or OPEN B).
- 5) The LED on the board corresponding to the channel in learning phase flashes for 5 seconds, within which you must send the code of another radio control.
- 6) The LED lights up with steady beam for 2 seconds indicating that the radio control has been memory stored, and then resumes flashing for 5 seconds, during which you can memory store other radio controls, as per point 5, and then it turns off.



12.4. Deleting the radio controls

- To delete <u>ALL</u> the radio control codes stored in the memory, just press and hold down the push-button OPEN A or OPEN B for 10 seconds.
- 2) The LED corresponding to the pressed push-button flashes for 5 seconds and then flashes more rapidly for the next 5 seconds.
- 3) Both LEDs light up with steady beam for 2 seconds and then turn off.
- 4) Release the push-button when both LEDs light up with steady beam.



This operation <u>IS NOT</u> reversible.

All radio control codes memory stored as OPEN A and OPEN B will be deleted.

13. START UP

After installation, make sure that no part of the door interferes with public spaces, such as sidewalks and/or streets.

Check the status of the unit inputs and make sure that every safety device is correctly connected (the corresponding LEDs must be ON). Perform some complete cycles to check the correct operation of the automated system and of the accessories connected to it, taking special care with the safety devices and the anti-crushing device of the operator. Check if the automated system is able to detect a 50 mm high obstacle on the ground.

Apply the sticker indicating the release operation close to the automated system and the sticker indicating danger well visible near the door or close to the command device Fig. 31).

Hand over to the customer the page named "User's Guide", and show the operation of the system and of the lock-release operations of the operator as shown in the mentioned guide.

14. FALL-PREVENTION CABLES

Connect the fall-prevention cables to the rear door and to the ceiling fitting (Fig. 32).

15. MAINTENANCE

At least every six months perform the functional check of the system, with special attention on the efficiency of the safety and release devices.

Check every month the efficiency of the anti-crushing device and make sure that it is able to detect a 50 mm high obstacle on the ground.

16. REPAIRS

For repairs, contact authorized FAAC Repair Centres.

17. ACCESSORIES

17.1. Central support

The central support (Fig. 33) provides a central securing point also for the single-piece sliding guide.

17.2. Key-operated release

The external release can be installed with a lever (Fig.34 ref. A) or with a key (Fig. 35 ref. B) system. Refer to the instructions in par. 6.3. and par. 7.5.

17.3. Safety edge CN60E

The use of the safety edge with conductive element is made easier by the possibility to house on the operator the relevant control unit (Fig. 35 ref. (1) of the User's Guide). Operate as follows:

- Seize the rear door with your hand.
- Slightly pull separating it from the plastic cover.
- Seize the ceiling fitting with your hand.
- Slightly pull separating it from the plastic cover.
- Loosen the 4 screws in the 4 corners of the plastic cover.
 Separate it from the base.
- House the control unit as shown in Fig. 35.
- First fix the two securing clips on the coupling on the base.
- Then slightly press until you hear the coupling click.
- For the connections, refer to the specific instructions of the safety edge CN60E and to Fig. 35.

ENGLISH

Fault	Possible causes	Solution
When the learning procedure starts, the SET UP LED flashes but the automated system does not perform any movement	The STOP and FSW safety devices are active also during the learning phase. Their missing or incorrect connection inhibits the operator	Check the LEDs status observing the
The automated system does not perform any movement The automated system opens the door	The STOP command is active The Fail-Safe function is active, but the NC contact of the devices connected to the FSW input does not open during the test performed by the unit before starting the movement The FSW safety devices are engaged.	indications of the table "Input status LEDs" on page 8. Check the connections shown in fig. 28.
but it does not perform the re-closure		Check the deer belence and if the deer
The learning procedure has not ended successfully and the SET UP LED flashes thus signalling a fault	-The automated system detects an ex- cessive difficult movement of the door	the door manually using the rod fitting on the door and check if the movement is
The automated system performs frequent reversals of movement during the opening and/or closing movement		smooth and does not require excessive drive or thrust. Adjust the balance of the system so that the released door cannot move. Execute a new learning procedure.
The automated system is difficult to release when the door is closed	The mechanical load on the release system is too high when the door is closed	Execute a new learning cycle and then decrease the thrust at closure by commanding a back movement of the carriage as described in paragraph 11.2.
	The learning cycle has not ended successfully	
The SET UP LED flashes thus signalling the fault status	The learning cycle has never been performed.	Execute a new learning cycle



D700HS AUTOMATED SYSTEM

User's guide

Read the instructions carefully before using the product and store them for future use. GENERAL SAFETY REGULATIONS

If correctly installed and used, the D700HS automated system will ensure a high degree of safety. Some simple rules on behaviour can prevent accidental trouble:

- Do not, under any circumstances, stand under the door.
- Do not allow persons, animals or things to stay near the automated systems, especially while they are operating.
- Transit must occur while the door is fully open and with the automated system stopped. Keep the door under control during the entire movement and prevent other people accessing the area involved.
- Keep remote-controls, or other pulse generators that could open the door, well away from children.



- IMPORTANT! DANGER OF CRUSHING.

- Once a month: check if the anti-crushing system is able to detect the presence of a 50 mm high obstacle laid on the ground.
- Do not allow children to play with the automated system.
 Do not willingly obstruct door movement.
- Prevent any branches or shrubs from interfering with door movement.
- Keep the indicator-lights efficient and easy to see.

Do not attempt to activate the door by hand unless you have released it.
 In the event of malfunctions, release the door to allow access and wait for qualified technical personnel to do the necessary work.

- When you have set manual operation mode, cut power to the system before restoring normal operation. - Do not in any way modify the components of the automated system.
- Do not attempt any kind of repair or direct action whatever and contact qualified FAAC personnel only.
- At least every six months: arrange a check by qualified personnel of the automated system and the safety devices.

DESCRIPTION

The D700HS automated system is ideal to automate balanced sectional doors of single garages for residential use.

The automated systems consist of an electro-mechanical operator, electronic control unit and courtesy light built into a single unit.

The system is non-reversing and, therefore, the door locks mechanically when the motor is not operating and, consequently, no lock is necessary; a manual release makes it possible to move the door in case of a power cut or fault.

The automated system has an electronic obstacle detection system. If an obstacle is detected during the closing manoeuvre, the automated system fully re-opens the door. If the automated system operates in automatic logic, the door re-closes after the pause time, otherwise, a new pulse has to be given to command closure. If an obstacle is detected during the opening manoeuvre, this will stop motion (e.g. thus preventing things and people from being lifted). To restore normal operation, give a new opening pulse. If, during closure, an obstacle is detected in the same position more than three consecutive times, the automated system considers this distance as the new closing contact point and goes into closed status. To restore the correct positions, remove the obstacle and command a new cycle: at the next closure, the automated system will advance at low speed until it detects the closing contact point.

The door is normally closed; when the control unit receives an opening command by radio control, or from another type of pulse generator (Fig. 1), it activates the electric motor which, by means of a transmission chain or belt, pulls the door open to allow access.

- If the automatic mode was set, the door closes automatically after pause time has elapsed. An opening pulse given during the opening stage has no effect.

- If the semi-automatic mode was set, a second pulse must be sent to close the leaf again.

- An opening pulse supplied during opening, stops movement. An opening pulse given during re-closing, always causes movement to be reversed.

- A stop pulse (if specified) always stops movement.

For details of door activity during the different logics, consult the installation engineer.

Accessories (photocells) may be present in automated systems, that prevent the door from closing when there is an obstacle in the area they control.

Emergency manual opening is possible by using the release system.

The indicator-light (if supplied) indicates the current door movement.

The courtesy light is activated when the motor starts and continues for about 2 minutes after it turns off. If the courtesy light flashes, this means that automated system is in shut-down status due to a fault, and qualified personnel must be called in to repair.

MANUAL OPERATION

The D700HS operator is equipped with an emergency release system activated from the inside – however, a lock can be fitted on request, for activating the release from the outside too.

If the door has to be moved manually due to a power cut or fault of the automated system, use the release device as follows:

- Turn off electric power to the system.

- Release the operator, by pulling the release handle downward (Fig. 2 ref. A).

Attention: make sure that there are no persons, animals or objects in the door movement area during the release manoeuvre.

RESTORING AUTOMATIC OPERATION MODE

- Relock the automated system by pulling the handle horizontally (Fig. 2 ref. B) and make sure that, when you release it, the "LOCK" window under the carriage is red, to confirm correct resetting.

- Move the door until you find the hook-on point.
- Power up the system.

MAINTENANCE

The D700HS automated system does not require any periodic replacement of parts. **COURTESY LIGHT REPLACEMENT**

To replace the lamp, grip the ceiling light with one hand and pull downward, as shown in Fig. 3. Unscrew the lamp (type E27 - 230 Vac - max 40 W) and re-position the ceiling light.





Translation of the original instructions







7																															
REGISTER		Signatures	Technician Customer		Technician	Technician Customer		Technician	lechnician Oustomer		lechnician Customer		Technician Customer		Technician	Technician		Technician	Technickan Customer		Technician	Customer	Technician		Customer	Technickan	Customer				
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MAIN		n data							nfiguration													d of foreseeable improper use									
	System	Installer	Customer	Type of system	Serial No.	Installation date	Start-up	System con	Trad	Oberator	Safety device 1	Safety device 2	Pair of photocells 1	Pair of photocells 2	Control device 1	Control device 2	Radio control	Flashing lamp			Indication of residual risks and										

ENGLISH

Translation of the original instructions

D700HS







ES CONJUNTO DE IMAGENES









FAA⊂



D700HS

F∕A∕⊂



FAA⊂



F∕A∕⊂



FAAC



FAAC



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D700HS



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