

SERVICE MANUAL COOKING



THIS DOCUMENT UPDATES AND REPLACES THE PREVIOUS ONE WITH SAME NUMBER



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1 - INTRODUCTION

This troubleshooting procedure for the KRONOS system is intended to be used with reference to the basic information contained in the theoretical Service Manual (code 599 37 14 83), with the addition of flow charts, block diagrams and referring to any error codes that might be shown on the display.

1.1 - PURPOSE OF THIS MANUAL

The purpose of this Manual is to provide a general outline of an efficient troubleshooting procedure for the new KRONOS system.

This Manual contains the general information necessary to perform the troubleshooting procedure. In relation to the various applications / personalizations, a brief Service Note will be issued describing the differences between the various applications.

1.2 - ESD - ELECTROSTATIC DISCHARGE AND ITS EFFECT ON THE COMPONENTS

The interface for the control unit is not fitted with an internal device to protect against electrostatic discharge. When effecting repairs, therefore, the service engineer must check for stabilization of the potential on the oven casing (i.e. discharge any static electricity by touching the oven casing) in order to prevent the possibility of overload, which might damage the control unit.

The same care is necessary when handling control units supplied as spare parts (i.e. not yet fitted to the oven), which must be removed from the protective bag in ESD only after stabilizing the potential (i.e. discharging any static electricity) and only then installed in the appliance.

Important: The theory behind the process of electrostatic charge and discharge is not discussed in this Manual, since the tangible effects are considered to be more important. However, the effects are felt frequently when touching a metal handle and feeling the electrostatic discharge in the form of a minor shock.

But what happens when stabilization of the potential takes place with semi-conductor components (i.e. components on a circuit board, such as integrated circuits, microprocessors etc.)?

Stabilization of the potential takes place across the internal structure of the component. This does not necessarily lead to the immediate destruction of the component; subsequent malfunctions across damaged internal connections may be more harmful, and these occur only as a result of overheating or current overloads.

It is true that almost all sensitive semi-conductor components (such as MOS circuits) have been improved by the addition of protective measures, but the internal structures of these components are today smaller than, for example, ten years ago, which tends to increase their sensitivity to the previous levels.

Important!

Which components are susceptible to damage by static electricity during repairs? All circuit boards featuring accessible control and command connections (door switches, food probes etc.), bare tracks and microprocessors, as well as any other circuits with free access.

Examples:

- Programmers with accessible connections for the food probe and the door switch.
- Programmers whose control processors are accessible (due to their high costs, the protective systems are only partial).
- W.O.E.C. control units.
- S.O.E.C. control units.
- C.H.E.C. control units.
- KRONOS control units
- R.H.E.A control units.

2 - DIAGNOSTICS AND APPROACH TO THE SYSTEM

In view of the diversified nature and the flexibility of the system, it is necessary to adopt a method of approach to each specific type of fault.

In other words, it is important to identify in detail the phenomena that take place when a fault occurs by attempting to correctly interpret the user's complaint.

For example, if the user makes a service call because the "oven is off", this may be due to:

- The oven does not switch on.
- The oven switches on for a few moments and then switches off.
- The display is lit but the oven does not heat.

Even in an oven with a traditional programming system, these three phenomena require three different approaches to locating the fault.

In a more complex system such as Kronos, it is even more important to correctly interpret the phenomena that occur.

In order to facilitate the process of identification, it is necessary to subdivide the system into separate blocks and then to identify the block in which the fault has occurred.

A first classification may be as follows:



Fig. 1

If the fault is accompanied by an error code, it is easier to identify.

As explained in greater detail in sections 5, 7 and 9, the appearance of an error code indicates a situation that has been detected by the system.

2.1 - ERROR CODE DISPLAY

The normal flow of information governed by the microcontroller is monitored by an internal programme; in the event of certain malfunctions, the relative information is shown on the display in the form of an error code.

2.2 – MEMORISATION OF ERROR CODES

The data relative to the error code are memorized in one of the registers in the microcontroller. When an error code is displayed, the oven switches off. To reset the error code, switch the oven off and then on.

3 - GENERAL BLOCK DIAGRAM

In order to facilitate troubleshooting, especially when no error code is displayed, it may be useful to represent the system in the form of a block diagram.



- 1 User interface (control units 1, 2 and 3)
- 2 Power board OVC1000
- 3 Input devices (sensors)
- 4 Output devices (power loads)
- The user interfaces (1) are the various control units including the control interfaces (if present).
- The power board receives information from the control units and signals from the input devices (3) in order to control the output devices (4).
- The input devices are sensors which transfer to the system any variations in temperature, as well as thermostats (in some models) which guarantee user safety in case of overheating.
- Out devices include the heating elements, the oven light and the various motors (oven fans, rotary spits, and if present, the door lock).

4 - ERROR CODES

The KRONOS system performs an internal autodiagnostics routine and, when a malfunction is detected, displays the corresponding error code.

The error code is shown on the display as shown in the figures relative to the various levels (see figg. 3, 4).

The table below describes the various error codes:

ERROR CODE	DESCRIPTION OF THE CAUSE
F02	Door lock system
	(featured only on pyrolytic ovens).
F03	EEPROM Memory on Control Unit.
F04	Oven sensor temperature range exceeded
	(condition occurs for more than 5 seconds).
F05	Temperature safety limit exceeded
	> 350°C on normal ovens.
	> 530°C on pyrolytic ovens.
	(condition occurs for more than 10 seconds).
F08	Communication interruption between Control unit and
	power board.
F09	Software compatibility between Control unit and power
	board.
F10	Faulty triac (on power board)

Examples of the way in which error codes are displayed are shown below:

Example of error code (F05) on level 2 control unit



Fig. 3

Fig. 4

Example of error code (F05) on level 3 control unit



5 - TROUBLESHOOTING USING ERROR CODES ON NORMAL OVENS

Troubleshooting based on error codes helps to identify the component or a specific section of the circuitry in the appliance.

When a malfunction is detected by the control circuit, the appliance shows the error code on the display and then switches off.





6 - TROUBLESHOOTING WITHOUT ERROR CODES















7 - TROUBLESHOOTING USING ERROR CODES ON PYROLYTIC OVENS

Troubleshooting based on error codes helps to identify the component or a specific section of the circuitry in the appliance.

When a malfunction is detected by the control circuit, the appliance shows the error code on the display and then switches off.







8 - TROUBLESHOOTING WITHOUT ERROR CODES ON PYROLYTIC OVENS











9 - VARIANT FOR MODELS WITH LIGHT BAR

The troubleshooting part below is dedicated to the light bar and the relative control board featured only on some models.



10 - DIAGNOSTICS CYCLE

10.1 - DIAGNOSTICS LEVEL 2 CONTROL UNIT NORMAL

To activate the diagnostics cycle in the base version it is necessary:

Press buttons FHU and simultaneously within some seconds after the switching on: The test has the following sequence:

Switching on



Fig. 5

Activation of the test



Fig. 6

Displaying of the display segments



Displaying of the programme code



Fig. 8

Sensor temperature (25)

			2	S			80
	On/off	O√f	FHU	\bigtriangledown	A	Ð	
	0	0	0	0	0	R	
HDC01112.JPG	SKH3	SKH4	SKH5	SKH6	SKH7	SKH8	

Fig. 9

Power and auxiliary loads test



Fig. 10

End of test



10.2 - DIAGNOSTICS LEVEL 2 CONTROL UNIT PYRO

To activate the diagnostics cycle in the base version it is necessary:

Press buttons FHU and e simultaneously within some seconds after the switching on: The test has the following sequence:

Switching on



HDC01115.JPG

Fig. 12

Activation of the test

		LC				
			JC			
		FHU	Руго	V	A	0
Onloff						(-)
On/off	0vf)	- A	0	Ó	ō	ă

Fig. 13

Displaying of the display segments



Displaying of the programme code



Fig. 15

Door closed not locked (02) Sensor temperature (25)



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Fig. 16

Door open not locked (02) Sensor temperature (25)



Fig. 17

Door locked



HDC

Power and auxiliary loads test



Fig. 19

Door lock deactivated

					ſ	חו
			.]		Ļ	JU
On/off	0∨f	FHU	Pyro	V	A	Ð
0	0	0	0	0	0	0
SKH1	SKH2	SKH5	SKH6	SKH8	SKH9	SKH10

Fig. 20

End of test



10.3 - DIAGNOSTICS LEVEL 3 CONTROL UNIT NORMAL

To activate the diagnostics cycle in the base version it is necessary:

Press buttons FHU and estimation simultaneously within some seconds after the switching on: The test has the following sequence:

Switching on



Fig. 22

Activation of the test



Fig. 23

Displaying of the display segments



Displaying of programme code and Sensor temperature (25)



Fig. 25

Power and auxiliary loads test



Fig. 26

End of test



10.4 - DIAGNOSTICS LEVEL 3 CONTROL UNIT PYRO

To activate the diagnostics cycle in the base version it is necessary:

Press buttons FHU and estimation simultaneously within some seconds after the switching on: The test has the following sequence:

Switching on



Fig. 28

Activation of the test



Fig. 29

Displaying of the display segments



Displaying of programme code and Sensor temperature (25)



Fig. 31

Door closed not locked (00)



Fig. 32

Door open not locked (02)

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HDC01136.JPG



End of test



11 - FUNCTIONAL DIAGRAMS

11.1 - FUNCTIONAL DIAGRAMS NORMAL OVEN

11.1.1 - FUNCTIONAL DIAGRAM LEVEL 2 NORMAL OVEN



Fig. 35

KEY

DISPLAY L2	2 - KRONOS CONTROL UNIT LEVEL 2.	REL2	- CONTROL RELAY FOR CONVECTION HEATING ELEMENT.
Ground	- MAINS (EARTH). - OVEN LAMP.	REL3	- CONTROL RELAY FOR UPPER HEATING ELEMENT.
MG1 MG2	- CONVECTION FAN - CONVECTION FAN - TANGENTIAL COOLING FAN.	REL4	- CONTROL RELAY FOR GRILL HEATING ELEMENT.
MG3	- SPIT MOTOR	REL5	- CONTROL RELAY FOR LOWER
Neutral Phase	- MAINS (NEUTRAL). - RETE (FASE).	TC1	HEATING ELEMENT. - SAFETY THERMOSTAT.
RT1 R1	- OVEN SENSOR PT500. - GRILL HEATING ELEMENT.	TO1 TO2	- CONTROL TRIAC FOR OVEN LAMP. - CONTROL TRIAC FOR CONVECTION
R2	 LOWER HEATING ELEMENT (BOTTOM). 	тоз	FAN. - CONTROL TRIAC FOR TANGENTIAL
R3	- UPPER HÉATING ELEMENT		COOLING FAN.
R4	(CEILING). - CONVECTION HEATING ELEMENT	TO4 TO5	- CONTROL TRIAC FOR SPIT MOTOR - CONTROL TRIAC FOR DOOR
OVC1000	(CIRCULAR). - POWER BOARD.	TR01	INTERLOCK - LOW-POWER TRANSFORMER
REL1	- SAFETY MAIN RELAY.	1101	
11.1.2 - FUNCTIONAL DIAGRAM LEVEL 2 NORMAL OVEN WITH LIGHT BAR



DISPLAY L2	- KRONOS CONTROL UNIT	REL2	- CONTROL RELAY FOR CONVECTION
Ground	LEVEL 2. - MAINS (EARTH). - OVEN LAMP.	REL3	HEATING ELEMENT. - CONTROL RELAY FOR UPPER HEATING ELEMENT.
LEDBAR M1	- LIGHT-BAR ASSEMBLY. - CONVECTION FAN	REL4	- CONTROL RELAY FOR GRILL HEATING ELEMENT.
M2	- TANGENTIAL COOLING FAN.	REL5	- CONTROL RELAY FOR LOWER HEATING ELEMENT.
NEUTRAL OVC1000	- MAINS (NEUTRAL). - POWER BOARD.		R PCB - SENSOR INTERFACE BOARD.
PHASE Pt500	MAINS (PHASE).OVEN SENSOR PT500.	Th1 TO1	 SAFETY THERMOSTAT. CONTROL TRIAC FOR OVEN LAMP.
PSU R1	- LIGHT-BAR INTERFACE BOARD - GRILL HEATING ELEMENT.	TO2 TO3	 CONTROL TRIAC FOR CONVECTION FAN. CONTROL TRIAC FOR TANGENTIAL
R2	 LOWER HEATING ELEMENT (BOTTOM). 	TO4	COOLING FAN. - CONTROL TRIAC FOR SPIT MOTOR (NOT
R3	- ÙPPER HÉATING ELEMENT	-	USED)
R4	(CEILING). - CONVECTION HEATING ELEMENT	TO5	 CONTROL TRIAC FOR DOOR INTERLOCK (NOT USED)
REL1	(CIRCULAR). - SAFETY MAIN RELAY.	TR01	- LOW-POWER TRANSFORMER

11.1.3 - FUNCTIONAL DIAGRAM LEVEL 3 NORMAL OVEN



KRONOS DISPLAY L3

Fig. 37

DISPLAY L3	3 - KRONOS CONTROL UNIT LEVEL 3.	REL2	 CONTROL RELAY FOR CONVECTION HEATING ELEMENT.
Ground	- MAINS (EARTH).	REL3	- CONTROL RELAY FOR UPPER HEATING
L1	- OVEN LAMP.		ELEMENT.
MG1	- CONVECTION FAN	REL4	 CONTROL RELAY FOR GRILL HEATING
MG2	- TANGENTIAL COOLING FAN.		ELEMENT.
MG3	- SPIT MOTOR	REL5	- CONTROL RELAY FOR LOWER
Neutral	- MAINS (NEUTRAL).		HEATING ELEMENT.
Phase	- RETE (FASE).	TC1	- SAFETY THERMOSTAT.
RT1	- OVEN SENSOR PT500.	TO1	 CONTROL TRIAC FOR OVEN LAMP.
R1	- GRILL HEATING ELEMENT.	TO2	 CONTROL TRIAC FOR CONVECTION
R2	- LOWER HEATING ELEMENT		FAN.
	(BOTTOM).	TO3	- CONTROL TRIAC FOR TANGENTIAL
R3	- UPPER HÉATING ELEMENT		COOLING FAN.
	(CEILING).	TO4	- CONTROL TRIAC FOR SPIT MOTOR
R4	- CONVECTION HEATING ELEMENT	TO5	- CONTROL TRIAC FOR DOOR
	(CIRCULAR).		INTERLOCK
OVC1000	- POWER BOARD.	TR01	- LOW-POWER TRANSFORMER
REL1	- SAFETY MAIN RELAY.		

11.2 - FUNCTIONAL DIAGRAM PYROLYTIC OVEN

11.2.1 - FUNCTIONAL DIAGRAM LEVEL 2 PYROLYTIC OVEN



Fig. 38

DISPLAY L2	- KRONOS CONTROL UNIT LEVEL 2.	REL2	 CONTROL RELAY FOR CONVECTION HEATING ELEMENT.
DL Ground	- DOOR INTERLOCK ASSY - MAINS (EARTH).	REL4	 CONTROL RELAY FOR GRILL HEATING ELEMENT.
L1 MG1	- OVEN LAMP. - CONVECTION FAN	RL	 FAN HEATING ELEMENT (DOUBLE SPEED)
MG2	- TANGENTIAL COOLING FAN.	SW1	- MICROŚWITCH DOOR INTERLOCK.
MG3 Neutral	- SPIT MOTOR - MAINS (NEUTRAL).	SW2 TC1	 MICROSWITCH DOOR CLOSED. SAFETY THERMOSTAT.
Phase	- RETE (FASE).	TC2	- DOOR INTERLOCK THERMOSTAT
RT1	- OVEN SENSOR PT500.	TO1	- CONTROL TRIAC FOR OVEN LAMP.
R1 R2	- GRILL HEATING ELEMENT. - LOWER HEATING ELEMENT	TO2	 CONTROL TRIAC FOR CONVECTION FAN.
Da	(BOTTOM).	TO3	- CONTROL TRIAC FOR TANGENTIAL
R3	 UPPER HEATING ELEMENT (CEILING). 	TO4	COOLING FAN. - CONTROL TRIAC FOR COOLING
R4	- CONVECTION HEATING ELEMENT	-	TANGENTIAL FAN DOUBLE SPEED
OVC1000	(CIRCULAR). - POWER BOARD.	TO5	- CONTROL TRIAC FOR DOOR INTERLOCK
REL1	- SAFETY MAIN RELAY.	TR01	- LOW-POWER TRANSFORMER
REL3	- CONTROL RELAY FOR UPPER HEATING ELEMENT.		
REL5	- CONTROL RELAY FOR LOWER HEATING ELEMENT.		

11.2.2 - FUNCTIONAL DIAGRAM LEVEL 2 PYROLYTIC OVEN WITH LIGHT BAR



KEY

DISPLAY L2	- KRONOS CONTROL UNIT LEVEL 2.	REL3	- CONTROL RELAY FOR UPPER HEATING ELEMENT.
Ground L1	- MAINS (EARTH). - OVEN LAMP.	REL4	- CONTROL RELAY FOR GRILL HEATING ELEMENT.
LEDBAR MG1	- LIGHT-BAR ASSEMBLY. - CONVECTION FAN	REL5	- CONTROL RELAY FOR LOWER HEATING ELEMENT.
MG2	- TANGENTIAL COOLING FAN.	SENSO	R PCB - SENSOR INTERFACE BOARD.
NEUTRAL	- MAINS (NEUTRAL).	SW1	 MICROSWITCH DOOR INTERLOCK HOOK.
OVC1000	- POWER BOARD.	SW2	 MICROSWITCH DOOR INTERLOCK.
PHASE	- MAINS (PHASE).	Th1	- SAFETY THERMOSTAT.
Pt500	 OVEN SENSOR PT500. 	Th2	- DOOR LOCK THERMOSTAT
PSU	 LIGHT-BAR INTERFACE BOARD 	TO1	 CONTROL TRIAC FOR OVEN LAMP.
R1	 GRILL HEATING ELEMENT. 	TO2	 CONTROL TRIAC FOR CONVECTION FAN.
R2	 LOWER HEATING ELEMENT (BOTTOM). 	TO3	- CONTROL TRIAC FOR TANGENTIAL COOLING FAN.
R3	- UPPER HÉATING ELEMENT	TO4	- CONTROL TRIAC FOR COOLING TANGENTIAL
D4	(CEILING).	TOF	FAN DOUBLE SPEED
R4	- CONVECTION HEATING ELEMENT	TO5	- CONTROL TRIAC FOR DOOR INTERLOCK
	(CIRCULAR).	TR01	- LOW-POWER TRANSFORMER
RL	- DROP RESISTANCE FOR FAN (DOUBLE SPEED).		
REL1	- SAFETY MAIN RELAY.		
REL2	- CONTROL RELAY FOR		

- CONTROL RELAY FOR CONVECTION HEATING ELEMENT.

112.3 - FUNCTIONAL DIAGRAM LEVEL 3 PYROLYTIC OVEN



Fig. 38

DISPLAY L3	- KRONOS CONTROL UNIT	REL2	-
DL	LEVEL 3. - DOOR INTERLOCK ASSY	REL4	_
Ground	- MAINS (EARTH).		
L1	- OVEN LAMP.	RL	-
MG1	- CONVECTION FAN		
MG2	 TANGENTIAL COOLING FAN. 	SW1	-
MG3	- SPIT MOTOR	SW2	-
Neutral	- MAINS (NEUTRAL).	TC1	-
Phase	- RETE (FASE).	TC2	-
RT1	 OVEN SENSOR PT500. 	TO1	-
R1	 GRILL HEATING ELEMENT. 	TO2	-
R2	 LOWER HEATING ELEMENT 		
	(BOTTOM).	TO3	-
R3	 UPPER HEATING ELEMENT 		
	(CEILING).	TO4	-
R4	 CONVECTION HEATING ELEMENT 	TO5	-
	(CIRCULAR).		
OVC1000	- POWER BOARD.	TR01	-
REL1	 SAFETY MAIN RELAY. 		
REL3	 CONTROL RELAY FOR UPPER 		
	HEATING ELEMENT.		
REL5	- CONTROL RELAY FOR LOWER		
	HEATING ELEMENT.		

- CONTROL RELAY FOR CONVECTION HEATING ELEMENT.
- CONTROL RELAY FOR GRILL HEATING ELEMENT.
- FAN HEATING ELEMENT (DOUBLE SPEED)
- MICROŚWITCH DOOR INTERLOCK.
- MICROSWITCH DOOR CLOSED.
- SAFETY THERMOSTAT.
- DOOR INTERLOCK THERMOSTAT CONTROL TRIAC FOR OVEN LAMP.
 - CONTROL TRIAC FOR CONVECTION FAN.
- CONTROL TRIAC FOR TANGENTIAL COOLING FAN.
- CONTROL TRIAC FOR SPIT MOTOR
- CONTROL TRIAC FOR DOOR INTERLOCK
- LOW-POWER TRANSFORMER

12 - TESTING THE COMPONENTS

12.1 - TESTING THE OVEN TEMPERATURE SENSOR

In case of doubt regarding the correct operation of the oven temperature sensor, use an ohmmeter to measure its resistance as follows.







Fig. 39

The resistance should be approximately 500 - 600 ohm at room temperature.

It is important to measure the insulation resistance between the metal casing and each of the terminals, which must be greater than 2 Mohm.

12.2 - POWER ABSORPTION TESTS

The power absorption can be measured using the appropriate instrument (e.g. wattmeter), which should be applied between the power supply and the appliance.

The table below also shows indicative values for the relative current absorption in the event that an amperometric pincer is used for measurement.

POWER ABSORPTION	CURRENT ABSORPTION
(W)	(A)
50	0,20
1700	7,40
2000	8,70

NOTA: The values measured refer to a power supply voltage of 230 V.

12.3 - TESTING THE POWER BOARD

The continuity of the primary winding of the power transformer on the power board can be checked by measuring the ohmic resistance on the power supply terminal block. The test points for the various types of appliance are shown in fig. 41.



12.4 - RELEASING THE DOOR LOCK MANUALLY

If the door remains locked mechanically, it must be released manually. To do so, proceed as follows:

12.4.1 - RELEASING THE DOOR LOCK MANUALLY ON ACCESS OVENS

To release the door lock manually on Access ovens, it is necessary to remove the hook screw through a hole on the venting grid:

- 1. Insert a 3mm Philips (cross-head) screwdriver through the hole and loosen the screw which secures the latch of the lock.
- 2. Remove the screw which secures the latch; in the way, the latch can be raised to release the door (see fig. 44).
- 3. Check that the door interlock functions correctly. If not, replace the interlock (see chapter 11.5).



Fig. 44

1 - 3mm PHILIPS (CROSS-HEAD) SCREWDRIVER 2 - HOLE FOR ACCESS TO RELEASE SCREW

When the door interlock is released for the first time, it is necessary to perforate the thin plastic film which covers the hole next to the door interlock release screw (see fig. 43).



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12.4.2 - RELEASING THE DOOR LOCK MANUALLY ON ACCESS PLUS OVENS

To release the door lock manually on Access Plus ovens, it is necessary to remove the hook screw or to lift up the hook (depending on the door interlock, see 12.4.2.3 and 12.4.2.4) through a hole on the oven front panel.

12.4.2.1 - HOLE POSITION ON MODELS WITH TRADITIONAL OPENING DOOR AND LEFT HINGED DOOR



Fig. 46

12.4.2.2 - HOLE POSITION ON MODELS WITH RIGHT HINGED DOOR



12.4.2.3 - RELEASING THE "METEOR" DOOR LOCK

To release the door lock manually on Access Plus ovens with "METEOR" door lock, it is necessary to remove the hook screw through a hole on the front panel (see 11.4.1):

- 1 Insert a 3mm screwdriver into the hole to remove the hook fixing screw.
- 2 Remove the hook fixing screw, in this way the closure hook lifts up releasing the door (see Fig. 48).
- 3 Check the operation of the door lock and if faulty replace it (see 11.5).



Fig. 48

1 - 3 mm CROSS SCREWDRIVER

2 - HOLE TO ACCESS THE SCREW

12.4.2.4 - RELEASING THE "ELTEK" DOOR LOCK

To release the door lock manually on Access Plus ovens with "ELTEK" door lock, it is necessary to remove directly the hook through the hole on the front panel (see 11.4.1):

- 1 Insert a 3mm screwdriver into the hole to lift up the closure hook of about 3 mm to allow releasing the door lock (see Fig. 49).
- 2 Check the operation of the door lock and if faulty replace it (see 12.5).



Fig. 49

1 - 3 mm SCREWDRIVER

2 - HOLE TO ACCESS THE DOOR LOCK HOOK

12.5 - TESTING THE DOOR LOCK

- Measure the resistance of the winding of the door lock actioning motor, which should be about 9.5 Ω .
- Check that the two microswitches open and close correctly in the various sequences (door open, door closed etc.) as indicated in Service Manual 599 36 07 64, section 3.5.





13 - ACCESS/KRONOS: ORGANIZATION OF SERVICE MANUALS

In view of the quantity of theoretical, technical and practical information relative to the various combinations for the structure of the ACCESS/KRONOS system, this information has been subdivided into Service Manuals describing the general concepts, and separate Service Manuals containing specific information relative to each group of appliances.

Only the specific Service Manuals should be used for a specific appliance.

The various Service Manuals are as shown in the diagram below.



14 - REVISIONS

REVISION	DATE	
01	03/2008	 Added Chapter 9 - VARIANTS FOR MODELS WITH LIGHT BAR on page 25. Added diagram on page 41. Added "Eltek" door lock in 12.4 page 47.