Service manual

Compass Control

Tumble dryers

T4130, T4190



487 05 40 81/EN 08.36

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Safety rules

Programming is only to be carried out by qualified personnel.

High voltage on the printed circuit board.

IMPORTANT SERVICE NOTE!

Continuity and resistance measurements suggested by the procedures in this manual require that power to the dryer be disconnected, and that the device whose resistance is being measured be disconnected from all circuits that might affect the accuracy of the measurement.



Generel

From factory, the dryer has been set to specific values for:

Time, temperature, cooling, reversing, etc.

The above parameters are changeable by reprogramming the Selecta Control PCB.

Selecta Control PCB

The PCB Module is located under the top cover on the front of the machine, see the service manual for the specific dryer.

In order to reprogramme the dryer it is necessary to switch the print board into programming mode.

Glossary

Auto Stop The tumble dryer stops automatically when the clothes are dry.

AHL	Apartment House Laundry - Communal laundries / Housing block laundries.
GN	Natural gas
LPG	Bottle gas
OPL	On Premises Laundry - Institutional laundries.
РСВ	Printed Circuit Board.
RMC	Residual Moisture Control - The tumble dryer has residual moisture control.
СР	Central Payment
CMD	Coin Meter Double
CMS	Coin Meter Single
CMSNCB	Coin Meter No Coin Box
ESS	Electrolux Single System
PCR	Prepared for Card Reader

Versions

Software version

The software version is only readable in menu 1-3-1, see section "Program Unit" If the software has been upgraded a label has been affixed.

Hardware version

The hardware data is printed on a label, see fig. 1.

The label is affixed on the print board which is facing downward towards the drum. The label is only visible when the print board is demounted.

Parameter version

The parameter version is only readable in menu 1-3-2, see section "Program Unit"



Connector numbers

In the error analyses in the section "Troubleshooting" later in this manual connections P1-P23 are mentioned.

The P-numbers are printed on the print board.

The usage of the connections appears from the wiring diagrams supplied with the dryer. The positionings of P1-P23 are shown on the following page.

High voltage on the printed circuit board

Do not touch the printed circuit board.

The shaded areas indicate high voltage.





Description





Usage of the connections

It is possible to connect following features to the PCB.

- P1 Motor control
- P2 Vacuum and fan input
- P3 Power on
- P4 Power out
- P5 Heat control
- P6 Els-Network
- P7 Els-Network
- **P8** 18V AC out
- **P9** 18v AC in
- P10 RMC
- P11 RS 232 internal use (incl. 24V DC)
- P12 RS 232 programme
- P13 Data bus (incl. 24V DC)
- P14 Data bus (incl. 24V DC)
- P15 Gas control
- P16 Rotary (Compass Control)
- P17 Display (Compass Control)
- P18 Temperature sensor and filter input
- P19 External gas reset and service switch
- P20 Discount and external error (option)
- P21 Free drying
- P22 CP, CMS, CMSNCB, ESS, PCR
- P23 CMD

Menu tree



Engaging service mode

Service mode is engaged using the service switch on the CPU board under the top cover on the front of the machine.

Fig.

Press the service button.

The machine software will now switch to its service mode. The display lists the submenus available in this mode.

This service manual describes functions and programming instructions for the following submenus:

- SERVICE
- CONFIG 1
- CONFIG 2

Fig For other submenus, please refer to the

(2) programming manual.

Fig. To save changes to the machine's memory they

(3) must be confirmed in a menu that is displayed automatically whenever a change has been made.



Special modes for PCB

SELECTA MODE

There is a possibility that the CPU board is programmed to use the Selecta display.

- Fig. Selecta mode: The Compass display is lit and the
- (4) Selecta display shows "0__".

In order to engage Compass service mode keep pressing the service button when the power is turned on.

BOOT MODE

There is a possibility that the CPU board is in Boot mode.

In Boot mode new software for the CPU board can be downloaded. A special PC-program is required.

Boot mode: All 4 LEDs for the choice of temperature is lit and the display is turned off.

Fig. In order to engage the CPU board in boot mode it must already be engaged in service mode and then the gas reset button B must be pressed. To leave boot mode press the gas reset button again or download new software.





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Service

The service program is used to facilitate troubleshooting the machine. Using this programe it is possible to:

- · control the machine functions individually
- · control the sensor signals to the CPU board
- check the communication in the machine control system
- check the display
- Fig. Engage the service mode and select the row
- (6) SERVICE in the main menu and press the knob.

The display now shows the different submenus in the service program:



- ACTIVATE OUTPUTS
 - SHOW INPUTS
 - ARTICLE NUMBER
 - SHOW COM. PORTS
 - STATUS I/O BOARD
 - DISPLAY TEST

Select menu and press the knob.



ACTIVATE OUTPUTS

- Fig. Select the row ACTIVATE OUTPUTS and press
- (8) the knob.

The display now shows the functions (outputs) which can be activated:

- HEAT
- DIRECTION
- EXT SIGNAL
- FAN
- DRUM



6204 ACTIVATE OUTPUTS MENU 1-1-1 HEAT DIRECTION EXT SIGNAL FAN DRUM 6204

SHOW INPUTS

- Fig. Select the row SHOW INPUTS and press the 10 knob.
- Fig. The display now shows the sensor signals
- (inputs) which can be controlled:
 - DOOR CLOSED
 - VACUUM
 - EXTERNAL INPUT
 - PRICE REDUCTION
 - FILTER CLOSED
 - OVERHEAT
 - GAS INPUT
 - FAN OVERHEAT
 - DRUM OVERHEAT
 - FREE DRY
 - COIN 1
 - COIN 2
 - QUICK START 1
 - QUICK START 2
 - ANALOG

Select function and press the knob.

More inputs can be activated simultaneously.



ARTICLE NUMBER

Fig. Select the row ARTICLE NUMBER and press the (12) knob.

The display now shows a list of which article numbers and versions can be displayed (see below):

SOFTWARE VERSION

Fig. Select the row SOFTWARE VERSION and press ⁽¹³⁾ the knob.

The display now shows the software version.

PARAMETER VERSION

- Fig. Select the row PARAMETER VERSION and
- (14) press the knob.

The display now shows the parameter version.







SHOW COM. PORTS

Fig. Select the row SHOW COM. PORTS and press (15) the knob.

The display now shows the status for communication according to the current protocol.

STATUS I/O BOARD

Fig. Select the row STATUS I/O BOARD and press (16) the knob.

The display now shows the status for the I/O BOARD



DISPLAY TEST

- Fig. Select the row DISPLAY TEST and press the (17) knob.
- Fig. The display shows a checked grid for checking
- (18) that all segments in the display are intact. By
 - turning the knob two different grids are shown. Press the knob to return to the previous menu.





CONFIG 1

In the menu CONFIG 1 all the functions as well as parameters which the service personnel can change without a password are shown.

Engage the service mode on the machine.

- Fig. Select the row CONFIG 1 in the main menu and
- (19) press the knob.

In the display following submenus are now shown:

- Fig. USER INTERFACE
- (20) SHOW COUNTER
 - LANGUAGE
 - SPECIAL CONTROL
 - I/O ADDRESS

Select a submenu and press the knob.





USER INTERFACE

- Fig. Select the row USER INTERFACE and press the (21) knob.
- Fig. The display shows the accessible functions/
- (22) parameters regarding the user interface the default values are listed to the right:
 - BUTTON CLICK OFF
 - STANDBY VALUE 00
 - STANDBY VALUE BLINKS OFF
 - FINAL BLINKS ON
 - TIMEOUT, DISPLAY, SEC 12 x 10
 - TIMEOUT, END BUZ. SEC 10
 - SHOW TIME OFF
 - SHOW TEMP OFF
 - DEFAULT TEMP 0

(For a more detailed description of the functions/ parameters see the following pages.)

Fig. (23) To connect/disconnect the functions select ON or OFF and press the knob.

To adjust parameter values set the value and press the knob. The arrow shows the number to be adjusted.

• Turn the knob clockwise to set the number between 0 and 9.

• Turn the knob anti-clockwise to move to the next column. Turn the knob clockwise to set the value etc.







BUTTON CLICK

Select whether the machine should give a sound for each new position when the knob is turned and pressed in.

ON = Sound

OFF = No sound

STANDBY VALUE

Not yet in use

STANDBY VALUE BLINKS

Not yet in use

FINAL BLINKS

Not yet in use

TIMEOUT, DISPLAY, SEC

Specify with the knob the time after which the machine should reset a program selection that has not started. The time is given in steps of 10 seconds; $0 - 255 \times 10$ seconds.

Examples:

• if 030 is specified in the display this equals 300 seconds

• if 220 is specified in the display this equas 2200 seconds.

TIMEOUT, END BUZ, SEC

Specify with the knob the time during which the buzzer should sound at the end of the program unless the machine is turned off manually. The time is given in seconds; 0 - 255.

SHOW TIME

(RMC and AHL only)

Select whether the calculated remaining drying time is to be shown on the display while the program is in progress.

ON = The calculated time remaining of the program is shown on the display while a drying program is an progress.

OFF = No time is displayed in the display window.

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SHOW TEMP

Select if the current drying temperature in the drum is to be shown in the display during the ongoing drying program.

- **ON** = The drying temperature is to be shown
- **OFF =** No drying temperature to be shown in the display

DEFAULT TEMP

Select the default drying temperature in the drum:

0 = No temperature	No default temperature is selected and there- fore a temperature must be selected after every program selection.
1 = High temperature	After a program has been selected the dryer starts automatically on high temperature unless another temperature is selected
2 = Medium temperature	After a program has been selected the dryer starts automatically on medium temperature unless another temperature is selected
3 = Low temperature	After a program has been selected the dryer starts automatically on low temperature unless another temperature is selected
4 = No heat	After a program has been selected the dryer starts automatically on no heat unless another temperture is selected
5 = Last temperature	After a program has been selected the dryer starts automatically on the temperature last selected.

SHOW COUNTER

- Fig. Select the row SHOW COUNTER and press the 44 knob.
- Fig. The display shows the accessible functions
- (25) regarding which counters to be shown on the display the default values are listed to the right:
 - SHOW COIN COUNTER ON
 - SHOW HOUR COUNTER ON

(For a more detailed description of the functions see below.)

To connect/disconnect the function select ON or OFF and press the knob.



SHOW COIN COUNTER

Select whether the contents of the machine's coin counter should be shown in the display window while a drying program is in progress or outside the drying program without going into service mode. The counter is shown on the display after pressing the control knob twice in quick succession.

ON = The contents of the coin counter can be shown. Displayed after pressing the control knob twice in succession when drying or before the drying program starts

OFF = No display of the contents in the coin counter

SHOW HOUR COUNTER

Select whether the contents of the machine's hour counter should be shown in the display window while a drying program is in progress or outside the drying program without going into service mode. The counter is shown on the display after pressing the control knob twice in quick succession.

ON = The contents of the hour counter can be shown. Displayed after pressing the control knob twice in succession when drying or before the drying program starts.

OFF = No display of the contents in the hour counter.

LANGUAGE

- Fig. Select the row LANGUAGE and press the knob.
- (26) The display shows the accessible functions/
- Fig parameters regarding language selection the
- (27) default values are listed to the right:
 - DEFAULT LANGUAGE N/A *
 - LANGUAGE TIMEOUT SEC 12 x 10
 - SHOW °F OFF

(For a more detailed description of the functions/ parameters see below.)

To connect/disconnect the function select ON or OFF and press the knob.

To adjust parameter values set the value and press the knob. The arrow shows the number to be adjusted.

• Turn the knob clockwise to set the number between 0 and 9.

• Turn the knob anti-clockwise to move to the next column. Turn the knob clockwise to set the value etc.

* There is no default value as the language is selected when the machine is installed.





DEFAULT LANGUAGE

Select the language to be shown when the machine is started. The progam unit will return to the language set here if the machine is not used during the period specified in the LANGUAGE TIMEOUT menu.

LANGUAGE TIMEOUT SEC

Specify with the knob the time after which an unused machine should return to the set default language and return to the program selection. The time is given in steps of 10 seconds; 0 - 255 seconds.

Examples:

- if 030 is specified in the display this equals 300 seconds
- if 220 is specified in the display this equas 2200 seconds.

SHOW °F

Select whether all the temperature values are to be displayed in °C or °F

ON = 1 All temperature values displayed in °F

OFF = 0 All temperature values displayed in °C

I/O ADDRESS



- Fig. The display shows the accessible functions
 - regarding the I/O ADDRESS settings the default values are listed to the right:
 - ACTIVATE I/O BOARD OFF
 - I/O BOARD 1 N/A *
 - I/O BOARD 2 N/A *
 - I/O BOARD 3 N/A *



(For a more detailed description of the functions see below.)

To connect/disconnect the function select ON or OFF and press the knob.

* There is no default value



ACTIVATE I/O BOARD

Activate the I/O board - it is very <u>important</u> to keep in mind that P13 and P14 can not be used as ordinary I/O, eg. condensate pump T4130.

I/O BOARD 1-3

There is no value - press botton with above number on I/O board.

(29)

CONFIG 2

In the menu CONFIG 2 all the functions as well as parameters which the service personnel can only change using a password are shown.

Engage the service mode on the machine

- Fig. Select the row CONFIG 2 in the main menu and
- (30) press the knob.
- Fig. In the display a password must be entered in
- (31) order to gain access to CONFIG 2

The password is 0001

To enter the password:

• Turn the knob clockwise to set the number between 0 and 9.

• Turn the knob anti-clockwise to move to the next column. Turn the knob clockwise to set the value etc.

- ${\bf Fig.}$ In the display following submenus are now
- (32) shown:
 - CONFIG PCB
 - TEMPERATURE
 - ROTATION
 - MAXIMUM
 - RESET COUNTERS
 - ELS NETWORK

Select a submenu and press the knob.







CONFIG PCB

- Fig. Select the row CONFIG PCB and press the knob. (33)
 - [/] The display shows the accessible functions/
- Fig. parameters regarding the configuration of the pcb (34) module:
 - REVERSING ON/OFF*
 - TYPE OF HEATING*
 - PAYMENT SETTING*
 - CONTROL PANEL*
 - PROGRAMS*

(For a more detailed description of the functions/ parameters see the following page.)

To connect/disconnect the function select ON or OFF and press the knob.

To adjust parameter values set the value and press the knob.

* There are no default values listed as the values depend on the configuration of the machine.



REVERSING ON/OFF

Select whether the function reversing should be turned on or off.

ON = Reversing ON

OFF = Reversing OFF

TYPE OF HEATING

Select type of heating - both machine and heating type is displayed as shown in the list below:

- 0 = ----
- 1 = T4300S Electric
- 2 = T4300S Gas
- 3 = T4300S Gas US/JP
- 4 = Steam
- 5 = ---
- 6 = T4250/4350 Electric
- 7 = T4250/4350 Gas
- 8 = T4250/4350 Gas US/JP
- 9 = T4900/41200 Electric
- 10 = T4900/41200 Gas
- 11 = T4900/41200 Gas US/JP
- 12 = T4290/4530/4650 Electric
- 13 = T4290/4530/4650 Gas
- 14 = T4290/4530/4650 Gas US/JP
- 15 = T4190 Electric (PD9)
- 16 = T4190 Gas (PD9 Gas)
- 17 = T4190 Gas USA (PD9 Gas US/JP)
- 18 = T4130 Exhaust
- 19 = T4130 Condensate
- 20 = ----

PAYMENT SETTING

Select payment type - both no. and type is displayed as shown in the list below:

- 0 = ----
- 1 = 1 COIN NC
- 2 = 1 COIN NO
- 3 = 2 COIN NC
- 4 = 2 COIN NO
- 5 = CP TIME
- 6 = SINGLE SYSTEM
- 7 = CP COIN
- 8 = MASTER
- 9 = LM10

CONTROL PANEL

Select control panel type - both no. and type is displayed as shown in the list below.

0 = ----Selecta mode 1 = COINSelecta mode 2 = AHLSelecta mode 3 = OPL Selecta mode 4 = COIN JPSelecta mode 5 = TIME Selecta mode 6 = COM COIN Compass mode 7 = COM AHL Compass mode 8 = COM OPL Compass mode

PROGRAMS

Select program type - both no. and type is displayed as shown in the list below.

- 0 = COIN
- 1 = OPL RMC
- 2 = AHL RMC
- 3 = OPLAUTO
- 4 = AHL AUTO

TEMPERATURE

- Fig. Select the row TEMPERATURE and press the (35) knob.
- SS KII
- Fig. The display shows the accessible functions/
- (36) parameters regarding the temperature the default values are listed to the right:
 - INLET TEMPERATURE
 N/A *
 - HYSTERESIS 2 °C
 - AUTOSTOP N/A *

(For a more detailed description of the functions/ parameters see below.)

* There are no default values listed as the values depend on the configuration of the machine.

To adjust parameter values set the value and press the knob.





INLET TEMPERATURE

Select the inlet temperature, 80-180°C. However, all machines without inlet sensor = 0°C eg. T4130.

HYSTERESIS

Select the hysteresis on the outlet temperature, 1-10°C.

AUTOSTOP

Select the outlet temperature the dryer must reach before it stops and the clothes are dry, 30-70°C - only on dryers with this function.

ROTATION

Fig. (37)

Fig. (38)

Select the row ROTATION and press the knob.

- The display shows the accessible parameters
- regarding the rotation the default values are listed to the right:

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- CLOCKWISE
- PAUSE BETWEEN REV. 3 *
- REVERSING 5 **
- ANTICREASE ON



(For a more detailed description of the functions see further below.)

- * On T4900/41200 the factory setting is 12 sec.
- ** On machines w/reversing, 1 motor the factory setting is 15 sec.

To adjust parameter values set the value and press the knob.

CLOCKWISE

Select for how long the rotation must be clockwise - only if reversing is ON. Duration 01 - 99 minutes.

PAUSE BETWEEN REV.

Select how long the pauses between reversings must be - only if reversing is ON. Duration 01 - 99 seconds.

REVERSING

Select the duration of the reversing - only if reversing is ON. Duration 01 - 99 minutes (on machines w/reversing, 1 motor the duration is 01- 99 seconds).

ANTICREASE

Select whether the anticrease function must be on or off

0 = OFF

1 = ON

MAXIMUM

- Fig. Select the row MAXIMUM and press the knob.
- ⁽³⁹⁾ The display shows the accessible parameters
- Fig regarding the maximum settings the default
- (40) values are listed to the right:
 - NUMBER OF PROGRAMS 0 9 *
 - TIME ON TIME P 90
 - TIME ON AUTOMATIC P 90
 - PENDLING TIME
 20 255 *

(For a more detailed description of the parameters see below.)

To adjust parameter values set the value and press the knob.

* The default value is depending on the machine type

NUMBER OF PROGRAMS

Select the number of programs in the dryer

- 0 = coin
- 2 = AHL Autostop
- 3 = AHL RMC
- 5 = OPL Autostop
- 9 = OPL RMC

TIME ON TIME P

Select the maximum time for time programs: 10 - 90 minutes

TIME ON AUTOMATIC P

Select the maximum time for automatic programs: 10 - 90 minutes

PENDLING TIME

Select the earliest time the dryer can start after it has been stopped: 20-255 seconds.

- 120 = Electric heated, steam heated
- 20 = Gas heated, Electric heated T4250/4350, T4300, T4190





RESET COUNTERS

- Fig. Select the row RESET COUNTERS and press the $\stackrel{(41)}{(41)}$ knob.
- Fig. The display shows the accessible functions
- (42) regarding resetting the counters:
 - RESET SERVICE HOURS
 - RESET TRIP RUN HOURS

(For a more detailed description of the parameters see below.)

To adjust parameter values set the value and press the knob.



RESET SERVICE HOURS

Select this function in order to reset the service hours.

- **YES =** Reset the service hours
- **NO =** Cancel the resetting

RESET TRIP RUN HOURS

Select this function in order to reset the trip run hours.

- **YES =** Reset the trip run hours
- **NO =** Cancel the resetting

ELS NETWORK

- Fig. Select the row ELS NETWORK and press the 43 knob.
- Fig. The display shows the accessible parameters
 regarding ELS network the default values are listed to the right:
 - MACHINE ADDRESS
 - BAUD RATE 0
 - TIME OUT 0
 - DRYER TYPE N/A*

(For a more detailed description of the parameters see below.)

0

To adjust parameter values set the value and press the knob.

* There is no default value as the dryer type is set from factory

43 CONFIG 2 MENU 5-6 ↑ ELS NETWORK CONFIG 3 EXIT ↓ 6204



MACHINE ADDRESS

Select the number/address of the machine in the network.

- 0 = not in network
- 1 27 = available numbers

BAUD RATE

Select the communication speed.

- 0 = 38400 BAUD
- 1 = 2400 BAUD
- 2 = 9600 BAUD
- 3 = 38400 BAUD

TIME OUT

Select when the dryer must report a time out error: 0-99 seconds

CMIS = 10 sec. (error code E21)

LM10 = 90 sec. (error code E22)

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(to be continued ...)

(... continued)

DRYER TYPE

Select which type of machine the dryer is - this will be communicated to the computer:

- 1 = T4130
- 2 = T3190
- 3 = T3250
- 4 = T3350
- 5 = T3300/TD30•30
- 6 = T4290/TD30
- 7 = T4530/TD50
- 8 = T4650/TD75
- 9 = -----
- 10 = T4250
- 11 = T4350
- 12 = T4900/TD100
- 13 = T41200/TD135
- 14 = T4300S/TD30x30S
- 15 = T4190

CONFIG 3

Manufacturer use only.

General

The dryer is equipped with an automatic diagnostic system.

An error in the program or in the machine is indicated on the display by an error message comprising an error code and a descriptive text. Whenever an error occurs, the dryer stops operating.



Error analysis

A diagnostic procedure is provided for each error code. If an error has not been corrected after the procedure, please contact the manufacturer for additional assistance.

Error codes overview

Error code	Description
E 01	Option Not in use.
E 02	Option Not in use.
E 03	Inlet air - Sensor has short-circuited The thermistor element measuring the air inlet temperature to the drum, or the wiring to the sensor has shorted.
E 04	Outlet air - Sensor has short-circuited The thermistor element measuring the air outlet temperature from the drum, or the wiring to the sensor has shorted.
E 05	Fan motor Motor 1: The thermal protection switch in the motor, or its harness, is open.
E 06	Drum motor – Motor 2: The thermal protection switch in the motor, or its harness, is open.
E 07	Option Not in use.
E 08	Inlet and Outlet air protection thermostats One of the proctection thermostats has opened due to overheating.
E 09	Option Not in use.
E 10	Setting Programming error / incorrect or missing parameter(s).
E 11	Drying error Maximum allowable RMC time exceeded (non-coin operated models only).
E 12	Drying error Maximum allowable Autostop time exceeded (non-coin operated models only).
E 13	Drying error - Requested drying time is longer than maximum allowed.(dryer connected to a payment system).
E 14	Gas error - A flame was not detected on gas heated dryers.
E 15	Vacuum switch The vacuum switch/pressostat does not shut within 12 seconds after the dryer is started.
E 16	Vacuum switch The vacuum switch/pressostat was already closed when an attempt to start the dryer was made.
E 17	Inlet sensor disconnected The inlet thermistor or wiring to the thermistor is open.
E 18	Outlet sensor disconnected The outlet thermistor or wiring to the thermistor is open.
E 19	Option Not in use.
E 20	CMIS out of operation The dryer is put out of order in the PC programme.
E 21	CMIS com board poll error The PC does not poll the dryer within the time out.
E 22	LM10 com board poll error The PC does not poll the dryer within the time out.
E 23	Option Not in use.

E 24 Condensate container The condensate container is full and the pump is not pumping.

Check list - error codes related to overheating

General note regarding error codes related to overheating:

Before troubleshooting the electronic systems of the machine, examine the dryer to determine if the airflow is normal.

Insufficient airflow due to over-filling the machine, lint-obstructed screens, air passages and ducts, or improper exhaust venting are all possible causes of various errors.

Items concerning the necessary air flow

- 1. Check that the fresh-air intake to the room and the exhaust ducts/pipes from the room are not clogged by lint/dust or blocked in any other way.
- **2.** Check that the dryer receives the necessary quantity of fresh air. (*See installation manual*).
- **3.** Check that the fresh-air intake preasure drop does not exceed 10 Pa (applies only to air-intake duct kit, if installed *See installation manual*).
- 4. Check that the pressure drop in the air outlet ducts does not exceed the value printed on the data sheet in the Service Manual for the specific dryer. (Measurement is done with cold air (20°C/ 68°F).
- 5. Check that the air inlet screen on the rear of the dryer is not clogged by lint or dust.
- 6. Check that the lint screen is clean and in good condition.
- 7. Check the door gasket and internal sealing against the drum are defective/ missing/ dirty.
- 8. Check that the blower compartment and fan wheel have not become blocked with lint or other debris.
- **9.** Check that the fan wheel is in good condition, and that it is tightly secured to the motor shaft.
- **10.** Check for severely overloaded dryer. Remove some items as appropriate.

Items concerning gas connection

- 1. Check that the gas type corresponds with the dryer's data plate.
- 2. Check gas inlet and nozzle pressures.

E 03 - Inlet air - Sensor has short-circuited

Error description

This error code indicates that the inlet air thermistor connected to the PCB or the harness from the PCB to the thermistor, has short circuited.

A defective detection circuit in the PCB can also cause this error.

The dryer stops operating.

Error analysis



Alternative

Measure voltage between GND and T2



E 04 - Outlet air - Sensor has short-circuited

Error description

This error code indicates that the outlet air thermistor, connected to the PCB, or the harness from the board to the thermistor, has short circuited. A defective PCB can also cause this error. The dryer stops operating.

Error analysis



Alternative

Measure the voltage between GND and T1



E 05 - Fan motor - Overheating protection (motor 1) Only in machines with 2 motors

Error description

The thermal protection switch inside the fan motor is connected to the PCB. This error indicates that the thermal protection switch, or the harness between the board and the switch, has opened. A defective PCB can also cause this error. The dryer stops operating.

Error analysis



E 06 - Drum motor - Overheating protection (motor 2)

Error description

The thermal protection switch inside the drum motor is connected to the PCB. This error indicates that the thermal protection switch, or the harness between the board and the switch, has opened.

A defective PCB can also cause this error.

The dryer stops operating.

Error analysis



E 07 - Option

Not in use!

E 08 - Inlet air/outlet air - Overheating thermostat

Error description

A normally-closed, manual-reset high limit thermostat measuring the inlet air temperature. The thermostat is connected in series with the overheating thermostat for outlet air on the PCB.

This error indicates that one of the two thermostats, or the connecting harness has opened.

A defective PCB can also cause this error. The dryer stops operating.

Error analysis



E 09 - Option

Not in use!

E 10 - Programming errors - (Settings)

Error description

This error occurs when the parameter set-up is inconsistent.

Note! When resetting the circuit board the user adjusted programs disappear and need reprogramming.

The dryer stops operating.

Error analysis



E 11 - Drying error with RMC

Error description

Error code E11 occurs if the RMC system does not register that the clothes are dry within 90 minutes (factory setting).

The dryer stops automatically when the clothes have the chosen residual moisture.

Error analysis



Resetting

E 12 - Drying error with Auto Stop system

Error description

Error code E12 occurs if the Auto Stop system does not register that the clothes are dry within 90 minutes (factory setting).

Error analysis



Resetting

E 13 - Drying error, dryer connected to a payment system

Error description

Error code E13 occurs with Payment systems where the customer or system has requested a longer drying time than the allowed 90 minutes (factory setting on the dryer).

Error code is not displayed but is registered in the error log.

Error analysis



E 14 - Gas error

Error description

When the ignition control fails to detect a flame, a signal is sent to the PCB, and error code E14 is displayed.

The metal probe of the flame sensor generates an electrical current when exposed to the burner's flame.

This signal is detected by the ignition control module which, in turn, cuts off the gas valve immediately if the sensor does not indicate flame within 5 sec.

The integrity of the sensor's electrical connection is, therfore, critical to proper operation of this system.

Displaying error code E14

USA and Japan: The error code is not displayed until the 3rd unsuccessful ignition attempt.

Europe: The error code is displayed at the 1st unsuccessful ignition attempt.

Error analysis

See next page.

Resetting

Resetting is done by pushing the gas reset button on the circuit board.

Japan only: By opening and closing the door (coin operated dryers only).

E 14 - Gas error

Gas resetting

See on the preprevious page.

Error analysis



E 15 - Air pressure switch or vacuum switch

Error description

The air pressure switch or the vacuum switch does not shut within 12 seconds after the fan has started.

Error analysis



Resetting

E 16 - Air pressure switch or vacuum switch does not open

Error description

The error occurs if the vacuum switch / air pressure switch is already closed when an attempt to start the dryer is made.

Error analysis



Resetting

E 17 - Input sensor disconnected

Error description

This error is displayed when the inlet PT100 sensor is disconnected.

Error analysis



Alternative

Measure voltage between GND and T2



Resetting

E 18 - Output sensor disconnected

Error description

This error is displayed when the outlet NTC sensor is disconnected.

Error analysis



Alternative

Measure voltage between GND and T1



Resetting

E 19 - Option

Not in use!

E 20 - CMIS out of operation

Error description

This error is displayed if the dryer is put out of order in the CMIS program.

Error analysis

See separate manual.

E 21 - CMIS, polling error (warning)

Error description

This error is displayed if the dryer is connected in a CMIS system and the PC does not communicate with the dryer (no polling) within 10 sec (time out factory setting). The error is displayed the 10 first times the dryer is started and after this it will not reappear.

Note! This is a warning and the dryer will operate even though the error has been activated.

Error analysis



E 22 - LM10, polling error

Error description

This error is displayed if the dryer is connected in a LM10 system and the PC does not communicate with the dryer (no polling) within 90 sec (time out factory setting).

The error can only be removed, if communiction is re-established.

Note! It is not possible to use the dryer, however, it can be done by means of the "free of charge key".

Error analysis



E 23 - Option

Not in use!

E 24 - Condensate container is full

Error description

Every time a program is started the pump will run for approx. 15 seconds in order to empty the container. Afterwards the pump will run every 5 minutes.

This error is displayed if the pump has tried to empty the container whitout the level sensor having detected a level drop in the container.

Error analysis





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