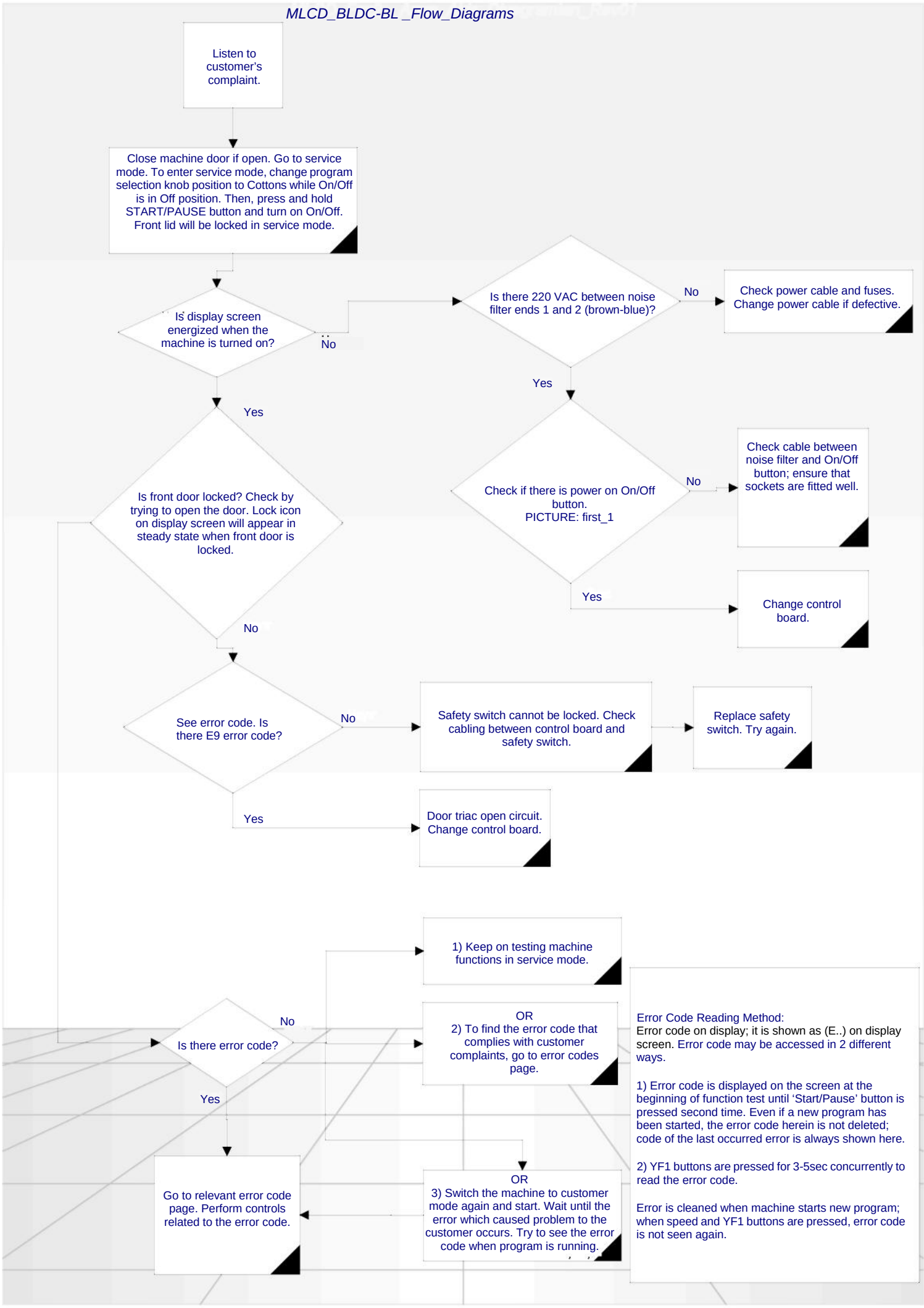
Revisions:

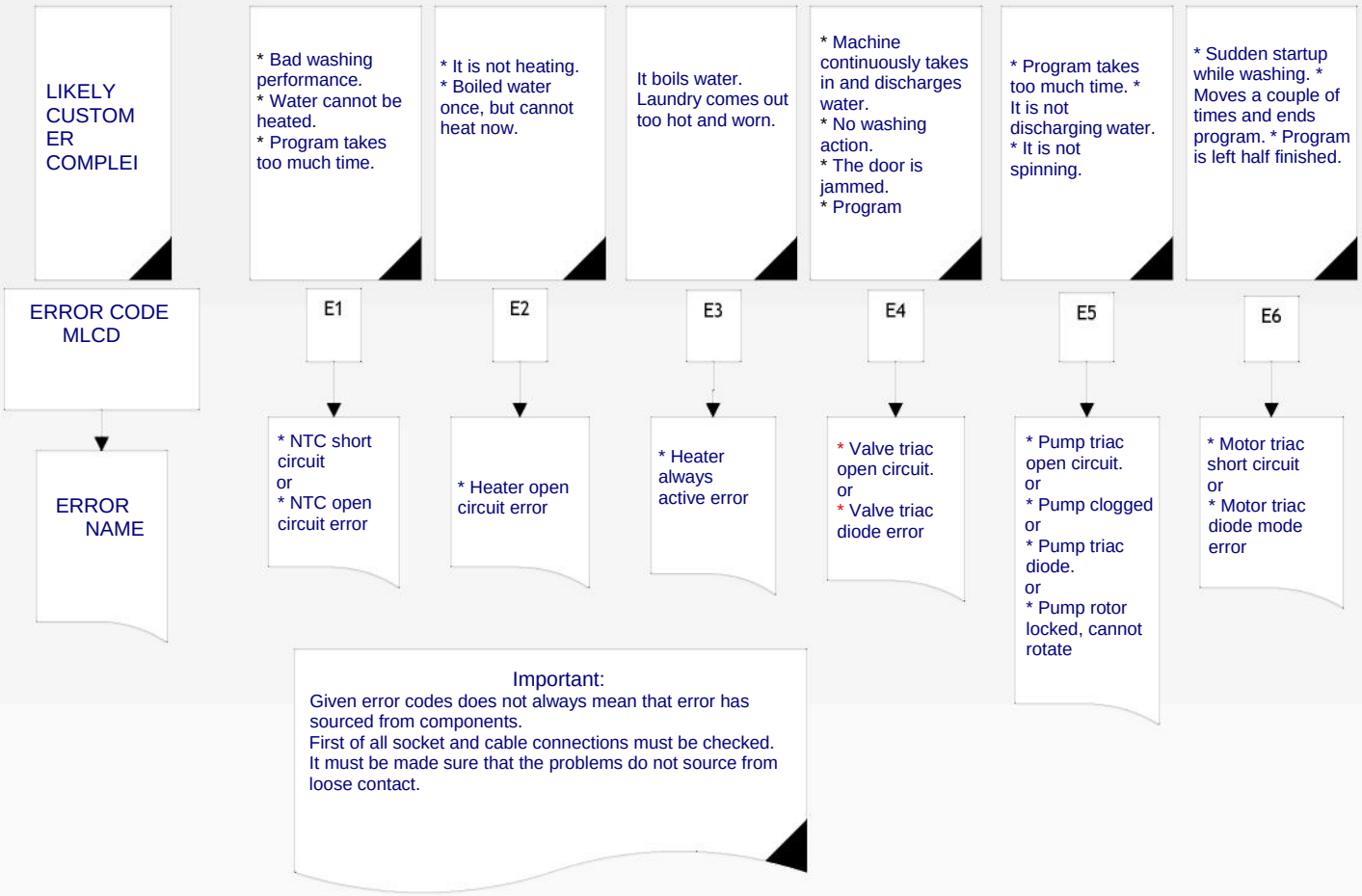
Rev. 00	18.02.2009	First edition
Rev. 01	08.10.2009	Aquastop error E7 has been added to error code page E17 and explanations of E18 errors have been updated.

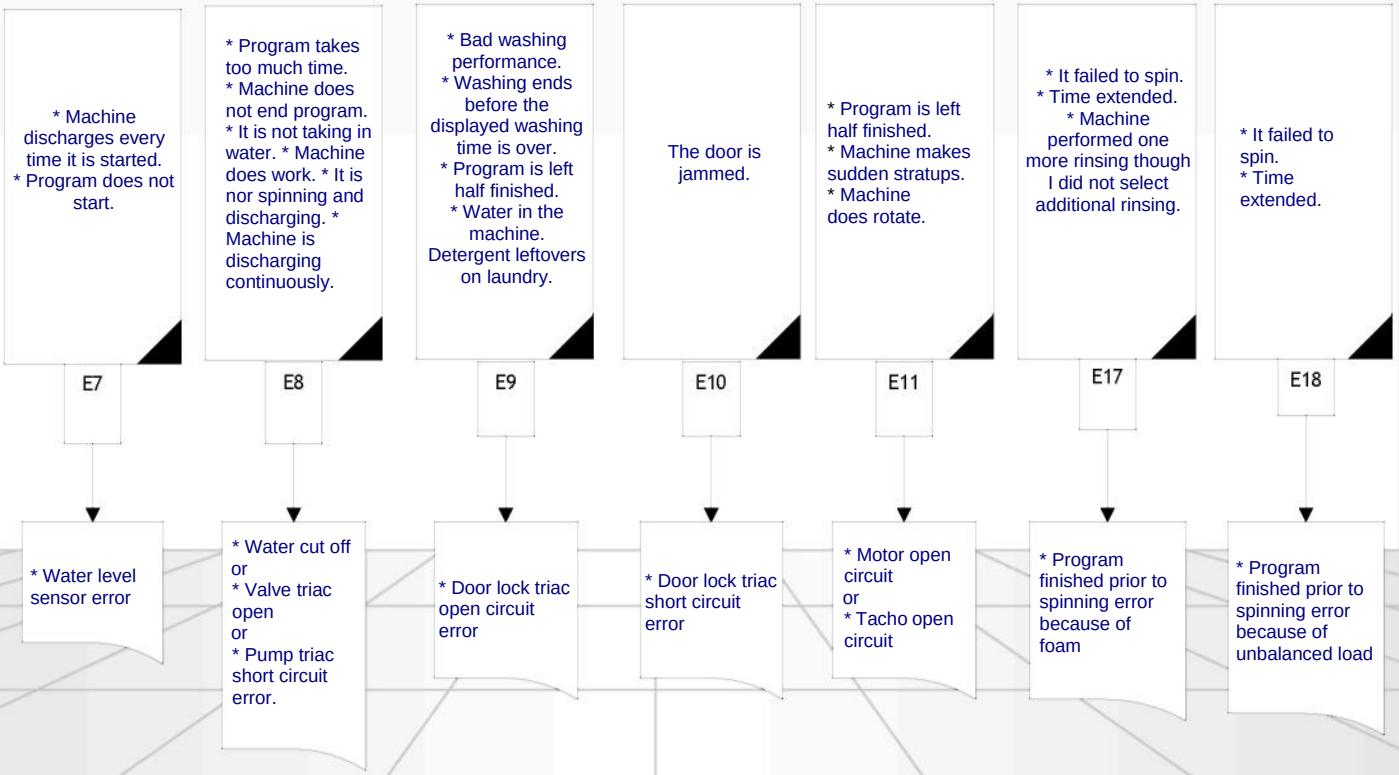
Prepared by:
Engin BAYATLI, Recep SERÇE

TABLE OF CONTENTS

Revision	Page 1
Contents	Page 2
Startup	Page 3
Error codes	Page 4
E1	Page 5
E2	Page 6
E3	Page 7
E4	Page 8
E5	Page 9
E6	Page 10
E7	Page 11
E8	Page 12
E9 and E10	Page 13
El 11	Page 14
El 12	Page 15
El 13	Page 16
E17	Page 17
E18	Page 18
Program selection knob not functioning	Page 19
Water intake from wrong compartment	Page 20
Appliance blows fuse	Page 21
App1 Error display table	Page 22
App2 Board view	Page 23
App3 Board picture	Page 24
App4 Circuit Diagram	Page 25
App4 Circuit Diagram_2	Page 26
App4 Circuit Diagram_3	Page 27


Listen to customer's complaint.
Close machine door if open. Go to service mode. To enter service mode, change program selection knob position to Cottons while On/Off is in Off position. Then, press and hold START/PAUSE button and turn on On/Off. Front lid will be locked in service mode.
Is display screen energized when the machine is turned on?
No
Is there 220 VAC between noise filter ends 1 and 2 (brown-blue)?
No
Check power cable and fuses. Change power cable if defective.
Yes
Yes
Is front door locked? Check by trying to open the door. Lock icon on display screen will appear in steady state when front door is locked.
Check if there is power on On/Off button.
PICTURE: first_1
No
Check cable between noise filter and On/Off button; ensure that sockets are fitted well.
Yes
Change control board.
No
See error code. Is there E9 error code?
No
Safety switch cannot be locked. Check cabling between control board and safety switch.
Replace safety switch. Try again.
Yes
Door triac open circuit. Change control board.
1) Keep on testing machine functions in service mode.
OR
2) To find the error code that complies with customer complaints, go to error codes page.
Is there error code?
No
Yes
Go to relevant error code page. Perform controls related to the error code.
OR
3) Switch the machine to customer mode again and start. Wait until the error which caused problem to the customer occurs. Try to see the error code when program is running.
Error Code Reading Method:
Error code on display; it is shown as (E..) on display screen. Error code may be accessed in 2 different ways.
1) Error code is displayed on the screen at the beginning of function test until 'Start/Pause' button is pressed second time. Even if a new program has been started, the error code herein is not deleted; code of the last occurred error is always shown here.
2) YF1 buttons are pressed for 3-5sec concurrently to read the error code.
Error is cleaned when machine starts new program; when speed and YF1 buttons are pressed, error code is not seen again.


LIKELY CUSTOMER COMPLEI
* Bad washing performance. * Water cannot be heated. * Program takes too much time.
* It is not heating. * Boiled water once, but cannot heat now.
It boils water. Laundry comes out too hot and worn.
* Machine continuously takes in and discharges water. * No washing action. * The door is jammed. * Program
* Program takes too much time. * It is not discharging water. * It is not spinning.
* Sudden startup while washing. * Moves a couple of times and ends program. * Program is left half finished.
ERROR CODE MLCD
E1
E2
E3
E4
E5
E6
ERROR NAME
* NTC short circuit or * NTC open circuit error
* Heater open circuit error
* Heater always active error
* Valve triac open circuit. or * Valve triac diode error
* Pump triac open circuit. or * Pump clogged or * Pump triac diode. or * Pump rotor locked, cannot rotate
* Motor triac short circuit or * Motor triac diode mode error
Important:
Given error codes does not always mean that error has sourced from components.
First of all socket and cable connections must be checked.
It must be made sure that the problems do not source from loose contact.


* Machine discharges every time it is started. * Program does not start.
* Program takes too much time. * Machine does not end program. * It is not taking in water. * Machine does work. * It is nor spinning and discharging. * Machine is discharging continuously.
* Bad washing performance. * Washing ends before the displayed washing time is over. * Program is left half finished. * Water in the machine. Detergent leftovers on laundry.
The door is jammed.
* Program is left half finished. * Machine makes sudden stratups. * Machine does rotate.
* It failed to spin. * Time extended. * Machine performed one more rinsing though I did not select additional rinsing.
* It failed to spin. * Time extended.
E7
E8
E9
E10
E11
E17
E18
* Water level sensor error
* Water cut off or * Valve triac open or * Pump triac short circuit error.
* Door lock triac open circuit error
* Door lock triac short circuit error
* Motor open circuit or * Tacho open circuit
* Program finished prior to spinning error because of foam
* Program finished prior to spinning error because of unbalanced load

* Bad washing performance.
* Water cannot be heated.
* Program takes too much time.

E1

*NTC short circuit or *NTC open circuit

Is there E1 error?

Yes

Is K2 socket on control board attached?

No

Attach K2 socket. (Picture EM)

Yes

Remove K2 socket and measure resistance between 1st (green) and 2nd (green) pins over socket. (Picture E1-2)

Measured value is NTC resistance value. Does it show approx. 4700 OHM at 25°C? (Picture E1-3) (There should be no open/short circuit)

Yes

Replace control board.

No

Open the rear door of machine. After removing NTC socket on heater, measure NTC value directly via NTC. (Picture E1-3)

Does it show approx. 4700 OHM at 25°C? (There should be no open/short circuit)

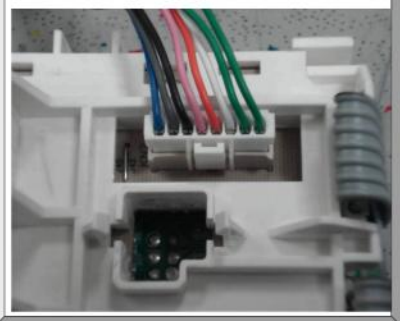
Yes

As the value measured via control board is erroneous, cabling is defective; check it. There should not be any loose contact or damaged cable or socket.

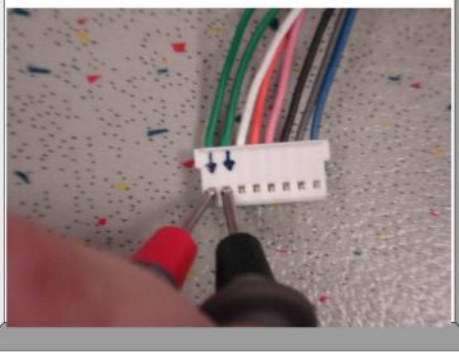
No

Replace NTC. Reattach the removed sockets back to their places.

Picture E-1-1: KN2 socket attached?



PICTURE E1-2: The socket connected to KN2 connector is removed to measure NTC resistance



PICTURE E1-3: NTC socket on heater is removed to measure NTC resistance

Important:
In cases of washing machine NTC open circuit / short circuit and heater open circuit, i.e., if there is E1, E2 or E3 error, machine will make cold washing and end program without the heater having been activated.

INFO: NTC resistance decreases as its temperature increases.
E.g., shows 9500 Ohm resistance under 10 C, and 1700 Ohm resistance under 50 C. These values are not incorrect.

* It is not heating. * Boiled water once, but cannot heat now.

E2

* Heater open circuit

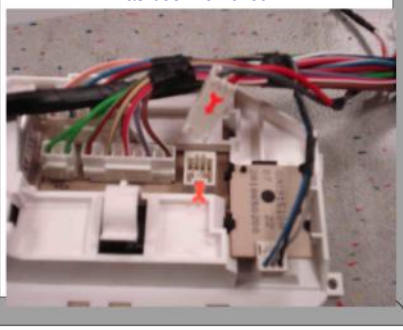
Important:
In cases of washing machine NTC open circuit / short circuit and heater open circuit, i.e., if there is E1, E2 or E3 error, machine will make cold washing and end program without the heater having been activated.

Is there E2 error?

Yes

Take out panel for easy measuring. Take out KN8 (Picture E2-1) Heater socket and KN4 (Picture E2-2) Tacho socket.

Picture E2-1: Heater socket on KN8 board has been removed.



Picture E2-2: Tacho socket on KN4 board has been removed.

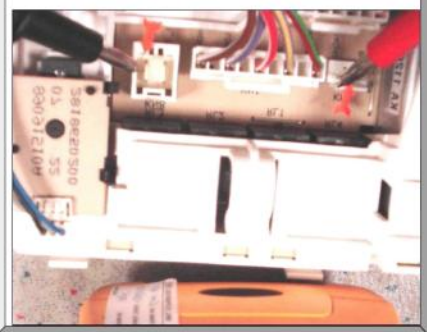
No

Is there short circuit between first pins of both connectors? Check! (Picture E2-3)

Yes

Replace control board.

Picture E2-3: There should not be short circuit between pin nr. 1 of KN8 socket and pins of KN4 socket.



Open the rear door of machine. Take out at least one of heater ends and measure heater resistance. Is the resistance 25 Ohm?
(Picture E2-4)

Yes

No

Replace heater

Is the heater working although there is no water?

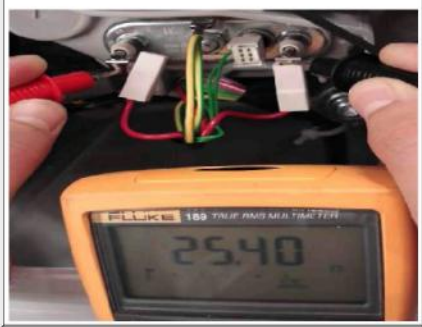
No

You may start washing program.

Yes

Check water level sensor. When empty machine is energized, measure the frequency between pins no: 1 and 3. It must be around 25560 Hertz. (Picture 2-5)

PICTURE E2-4: One of the cables (left one) on the heater has been removed and heater resistance is being measured.



PICTURE E2-5: Water level sensor is being controlled

It boils water. Laundry comes out too hot and worn.

E3

* Heater always active error

Is there E3 error?

Take out panel for easy measuring. Take out KN8 (Picture E3-1) Heater socket and KN4 (Picture E3-2) Tacho socket.

Is there short circuit between first pin of KN8 connector and both pins of KN4 connector? Check! (Picture E3-3)

Yes

Replace control board.

Is the heater working although there is no water?

Yes

Check water level sensor. When empty machine is energized, measure the frequency between pins no: 1 and 3. It must be around 25560 Hertz. (Picture E3-5)

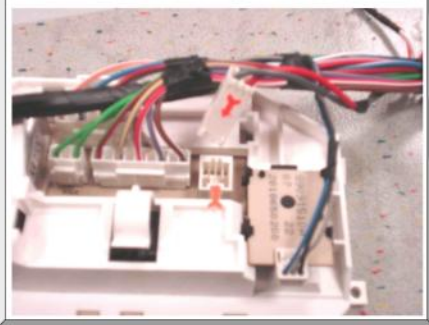
Open the rear door of machine. Take out at least one of heater ends and measure heater resistance. Is the resistance 25 Ohm? (Picture E3-4)

No

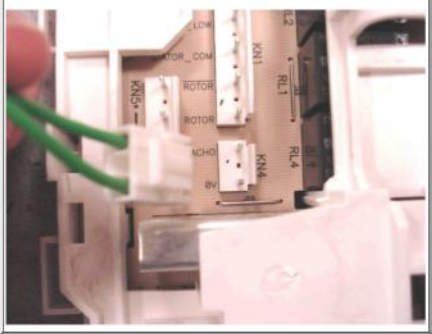
Replace heater

Important:
In cases of washing machine NTC open circuit / short circuit and heater open circuit, i.e., if there is E1, E2 or E3 error, machine will make cold washing and end program without the heater having been activated.

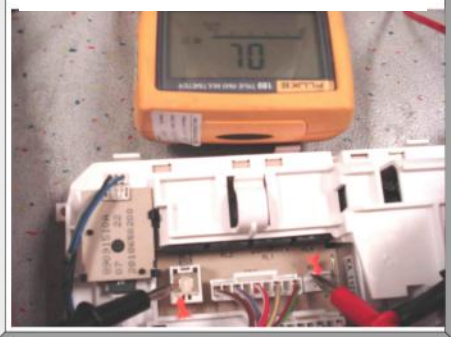
Picture E3-1: Heater socket of KN8 connector.



Picture E3-2: Remove KN4 Tacho connector.



Picture E3-3: Short circuit measurement between first pin of KN8 connector and both pins of KN4 connector.



Picture E3-4: Heater Resistance measurement

PICTURE E2-5: Water level sensor is being controlled

* Machine continuously takes in and discharges water.
* No washing action.
* The door is jammed.
* Program cannot be finished.

E4

* Valve triac open circuit.
or
* Valve triac diode error

Is there E4 error?

Yes

Is machine taking in water continuously?

Yes

Unplug the machine and check if it still takes in water.

Yes

Is the machine still taking in water although it is not energized?

Yes

Replace the water intake valve.

No

Replace control board.

* Program takes too much time.
* It is not discharging water.
* It is not spinning.

E5

Is there E5 error?

Yes

Check machine supply voltage. If supply voltage is low, pump will not work.

* Pump triac open circuit.
or
* Pump clogged
or
* Pump triac diode.
or
* Pump rotor locked, cannot rotate

Start the machine by taking it to pump program.

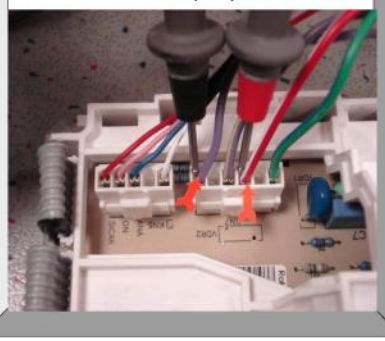
Is pump motor functioning? (This can be understood by touching the filter cover.)

Yes

* Check and clean the pump filter.
* Check if the drain hose is of appropriate height and length; correct as necessary.
* Make sure that the drain hose is not bent or kinked.

Discharge water and restart pump program.

Picture E5-1 KN7 :Measuring connector pump ends



When pump program is running, check the control board and if there is 220VAC between KN7 (purple)(pin 6) and KN7 (red white)(pin 3) without taking out any socket. Picture E5-1

No

Can the pump discharge water? (pump triac may be diode) Even though the pump creates vibration, it cannot pump.)

Is there 220 VAC voltage?

No

Replace control board.

PICTURE E5-2: Pump resistance is being measured over pump connector

Yes

Turn off machine and dismount machine's front panel to control pump coil resistance. There must be approx. 147 Ohm resistance between two pins of pump connector. Picture E5-2 Check. There should be no open/short circuit

Repair cables and/or cable ends.

Group and restart the machine.

Is the pump resistance correct?

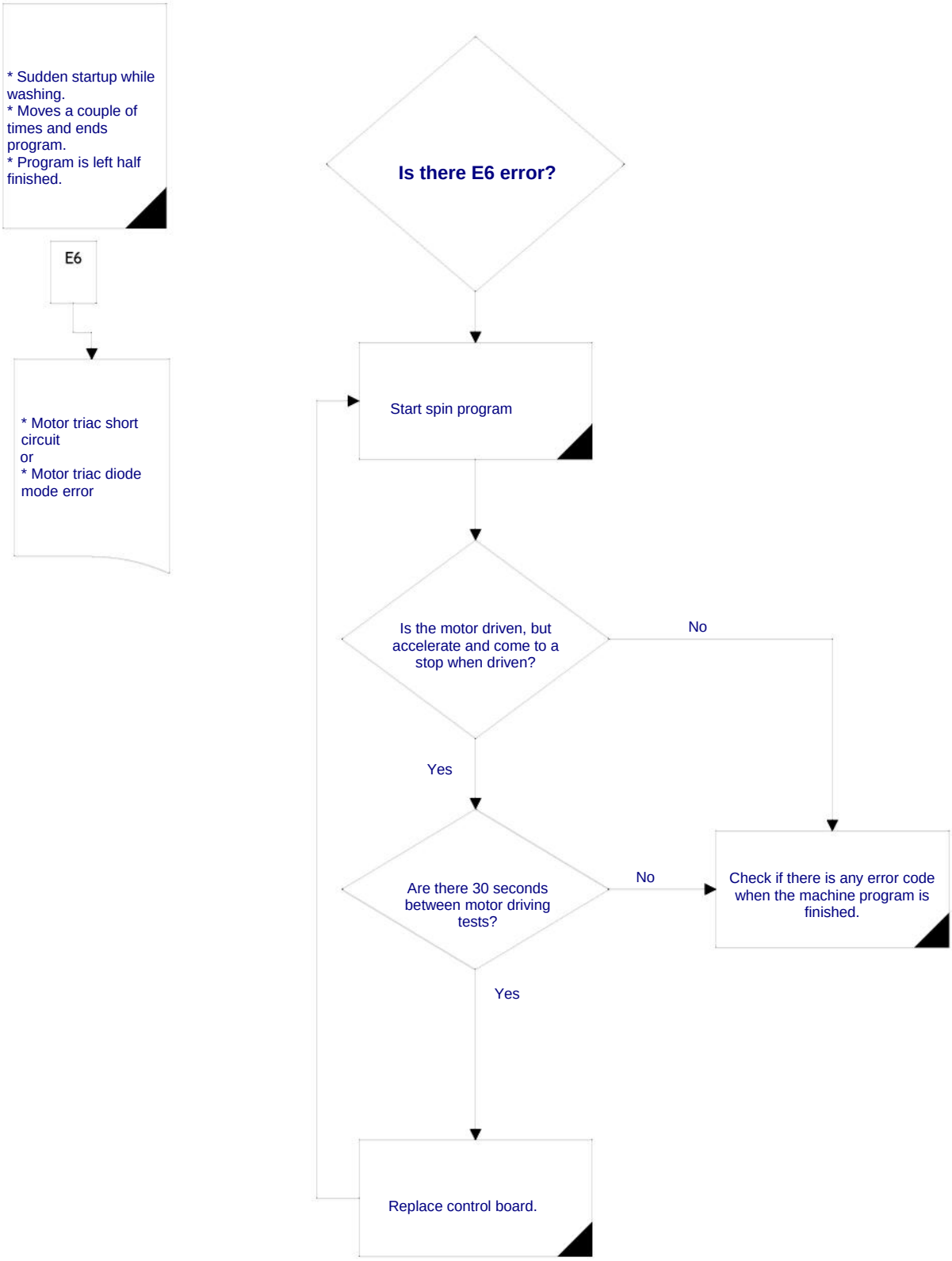
Yes

Is there loose contact or break at connections between the control board and pump motor, and on socket ends?

No

No

Replace the pump.


* Sudden startup while washing.
* Moves a couple of times and ends program.
* Program is left half finished.
E6
* Motor triac short circuit
or
* Motor triac diode mode error
Is there E6 error?
Start spin program
Is the motor driven, but accelerate and come to a stop when driven?
No
Yes
Are there 30 seconds between motor driving tests?
No
Check if there is any error code when the machine program is finished.
Yes
Replace control board.

* Machine discharges every time it is started.
* Program does not start.

E7

* Water level sensor error

Is there E7 error?

Yes

Is the machine equipped with AQUASTOP?

Yes

No

Is there water on bottom plate around aquastop sensor?

Yes

No

Is the styrofoam of aquastop sensor in correct position?

Yes

No

After making sure that aquastop sensor is functioning properly, reset the machine in service mode and restart the program. Check if there is any error code.

Are Level Sensor socket (Picture E7-1) and control board KN2 socket attached (KN2 socket
Picture E7-2) and are their connections firm?

No

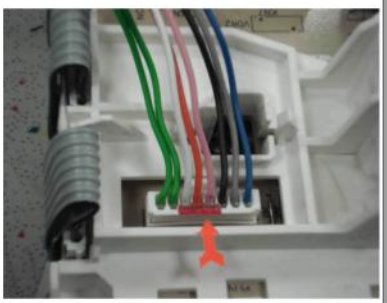
Yes

Replace level sensor.

Repair sockets and cables.

Picture E7-1: Is the water level sensor socket attached?

Picture E7-2: KN2 socket water level connections



Retry to run a program.

Important:
In mini led washing machines with aquastop, the aquastop circuit is connected to level sensor cable. If the aquastop buoy detects water level for whatsoever reason, it will detect it as machine level sensor error.

* Program takes too much time.
* Machine does not end program.
* It is not taking in water.
* Machine does work.
* It is nor spinning and discharging.
* Machine is discharging continuously.

E8

* Water cut off
or
* Valve triac open
or
* Pump triac short circuit error.

Is there E8 error?

Yes

Is machine taking in water?

Yes

No

Although the machine takes in water, does it pump and discharge water?

Yes

Replace the main board and run and test any program except spinning or pumping.

Check taps and filters; check if they are open or not. Is the tap closed or filter clogged?

Yes

Open taps and retry.

No

Make sure that the valve connectors (Picture E8-1) and control board KN6 (Picture E8-2) are attached. Are connectors attached?

No

Attach connectors and retry.

Yes

Is there 220 VAC between connectors of the valve that has to work?

No

Replace the valve and retry.

Yes

Is there 220 VAC between the KN6 connector's 1st pin (white) on control board and the valve pin that has to work? (Picture E8-3)

No

Replace the control board and retry.

Yes

Is there any error on cable connections between the control board and water intake valves?

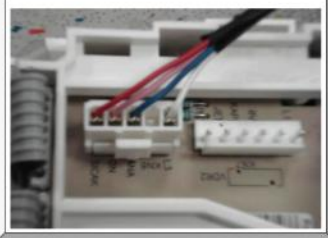
Yes

Check and correct the connections. Try again.

INFO:
Main wash pin 3 blue Prewash pin 4 pink Hot washing pin 5 red

Picture E8-1: Are valve connectors attached?

Picture E8-2: Is the KN6 connector on the board attached?



Picture E8-3: Is there 220V on KN6 connector attached on the board?

Important:
Prewash and main wash valves are activated together in softener step. Thus, water is sent to softener compartment.

* Bad washing performance.
* Washing ends before the displayed washing time is over.
* Program is left half finished.
* Water in the machine. Detergent leftovers on laundry.

E9

* Door lock triac open circuit error

Is there E9 error?

Yes

Replace the control board and retry.

The door is jammed.

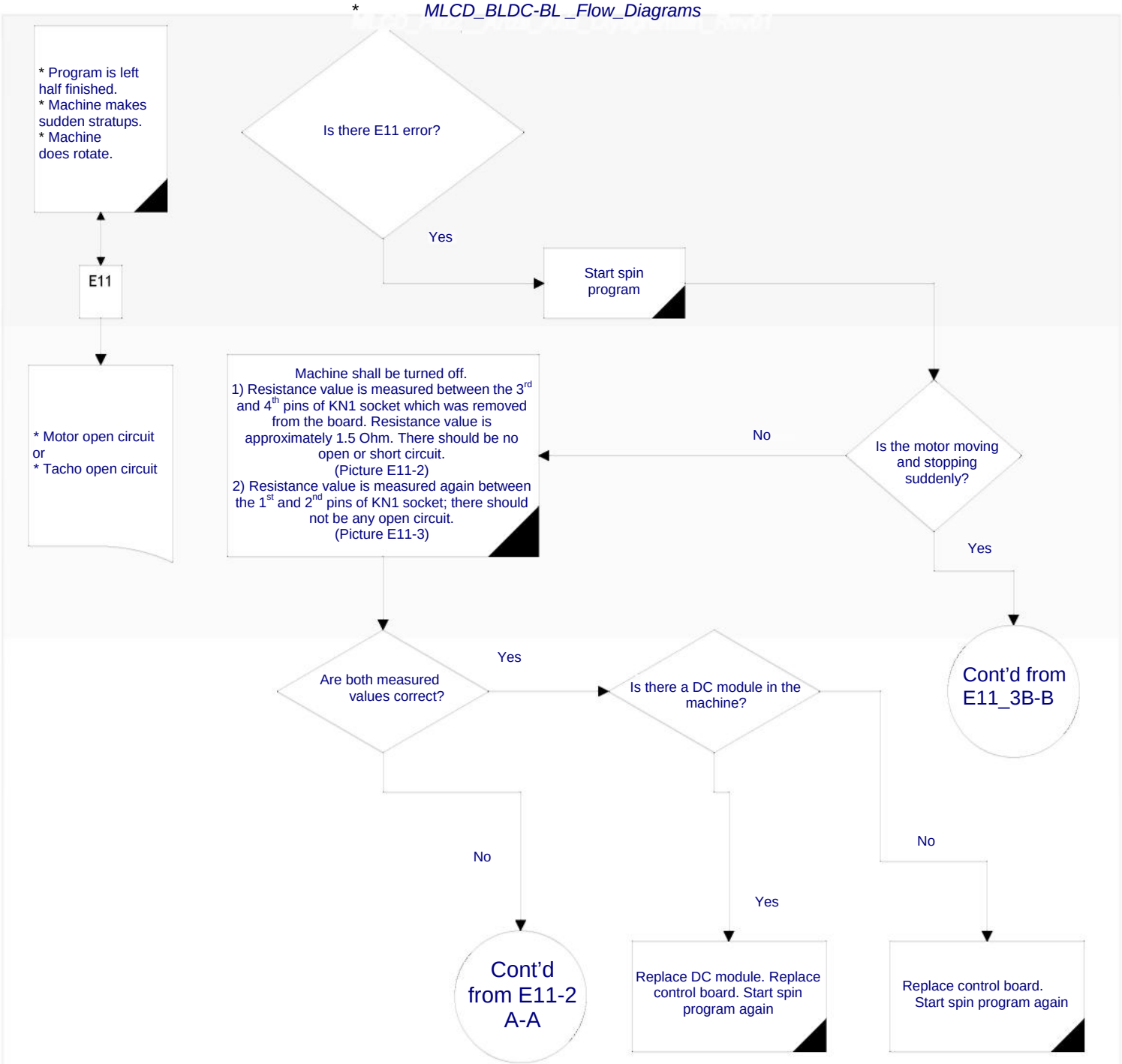
E10

* Door lock triac short circuit error

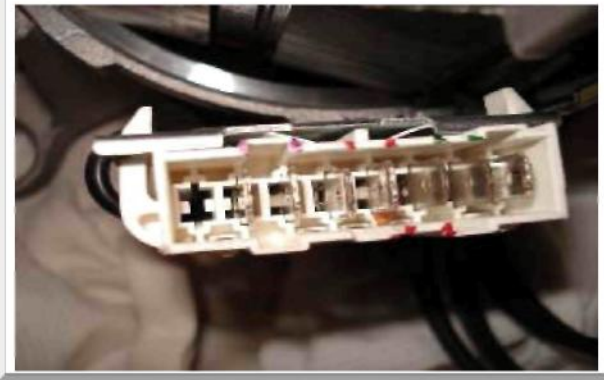
Is there E10 error?

Yes

Replace the control board and retry.


* Program is left half finished.
* Machine makes sudden stratups.
* Machine does rotate.
E11
* Motor open circuit or
* Tacho open circuit
Is there E11 error?
Yes
Start spin program
Is the motor moving and stopping suddenly?
No
Machine shall be turned off.
1) Resistance value is measured between the 3rd and 4th pins of KN1 socket which was removed from the board. Resistance value is approximately 1.5 Ohm. There should be no open or short circuit.
(Picture E11-2)
2) Resistance value is measured again between the 1st and 2nd pins of KN1 socket; there should not be any open circuit.
(Picture E11-3)
Yes
Cont'd from E11_3B-B
Are both measured values correct?
Yes
Is there a DC module in the machine?
No
Cont'd from E11-2 A-A
Yes
Replace DC module. Replace control board. Start spin program again
No
Replace control board. Start spin program again

PICTURE E11-12: 8-pin motor connector



IMPORTANT: First connector on 8-pin motor connector is empty. This connector is also counted.
Picture E11-12

PICTURE E11-4: Motor coil resistance is being measured over 8-pin motor

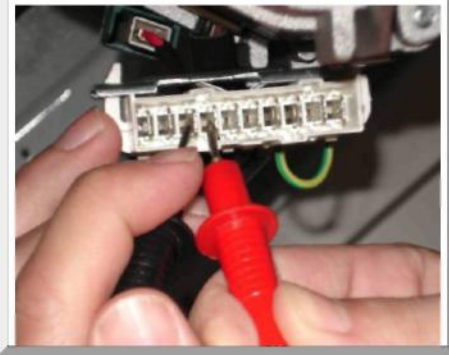
A-A

Rear cover of machine is opened, is motor connector 8-pin? or 10-pin?

with 8

with 10

PICTURE E11-6: Motor coil resistance is being controlled over 10-pin motor

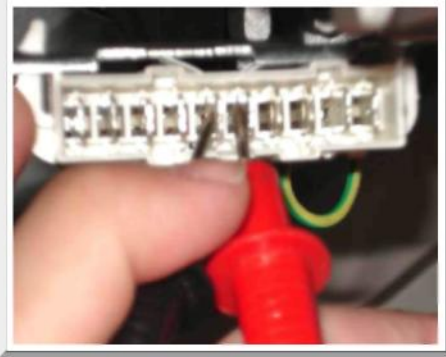


1) Motor socket is removed. Resistance value passing between 2nd and 3rd pins of motor connector is measured. Resistance value is approx. 1.5 Ohm. There should be no open or short circuit. (Picture E11-4)
2) Resistance value is measured between the 4th and 5th pins of motor connector; there should not be any open circuit. (Picture E11-5)

1) Motor socket is removed. Resistance value passing between 3rd and 4th pins of motor connector is measured. Resistance value is approx. 1.5 Ohm. There should be no open or short circuit. (Picture E11-6)
2) Resistance value is measured between the 5th and 6th pins of motor connector; there should not be any open circuit. (Picture E11-7)

PICTURE E11-5: Motor rotor is being controlled over 8-pin motor

PICTURE E11-7: Motor rotor is being controlled over 10-pin motor



Are both measured values correct?

No

Yes

Check and correct the cabling between the board and motor Start spin program again

Replace the motor. Start spin program again

Cont'd from

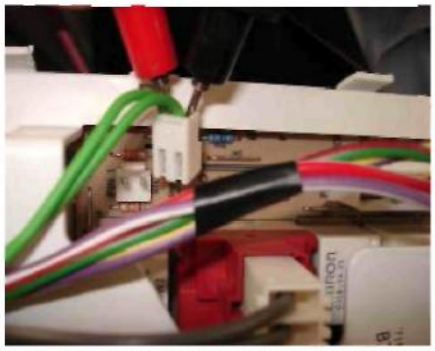
Are there 120 seconds between motor movements?

No

Check error code again when the machine program is finished.

Yes

PICTURE E11-8: Tacho resistance is being measured on the board.



Machine is turned off and KN4 connector on the Board is removed to check if the resistance between Tacho ends is approximately 80 Ohms or not. (Picture E11-8VX))

Yes

Replace control board. Start spin program again

No

Rear cover of machine is opened, is motor connector 8-pin? or 10-pin?

with 8

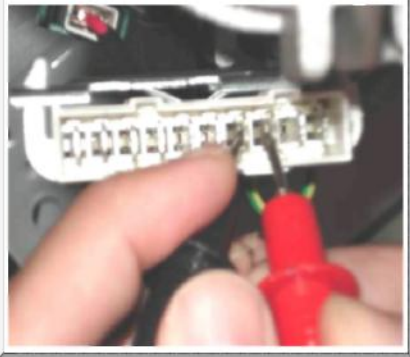
with 10

Motor connector is removed to measure resistance between Tacho ends.
Pin6, Pin7 (Picture E11-9).
Tacho resistance must be 80 Ohms.

PICTURE E11-9: Resistance is being measured over Tacho ends on 10-pin motor

Motor connector is removed to measure resistance between Tacho ends. Pin7, Pin8 (picture E11-10) Tacho resistance must be 80 Ohms.

PICTURE E11-10: Resistance at Tacho ends on the motor over 10-pin motor



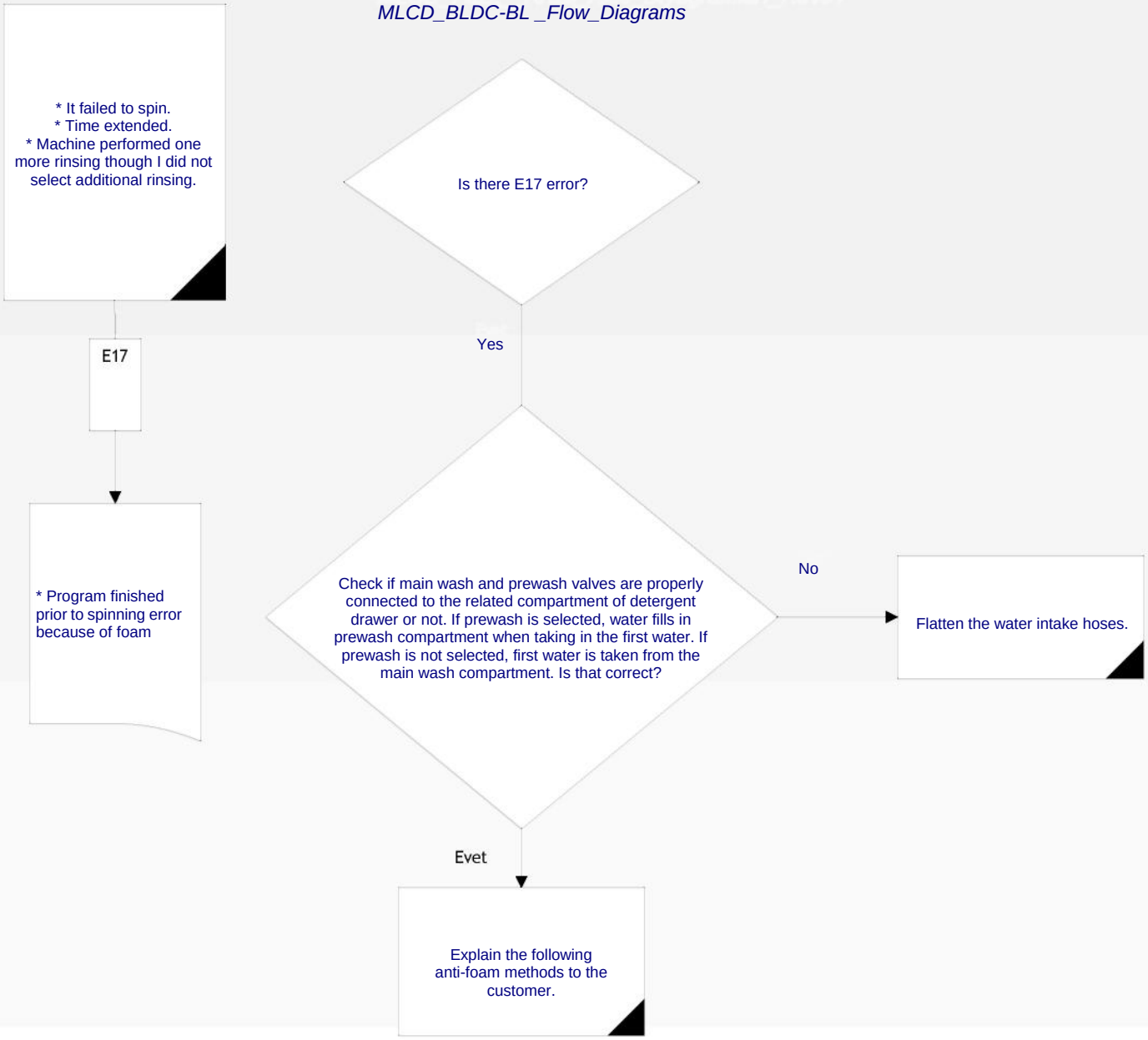
Are the measured values correct?

No

Yes

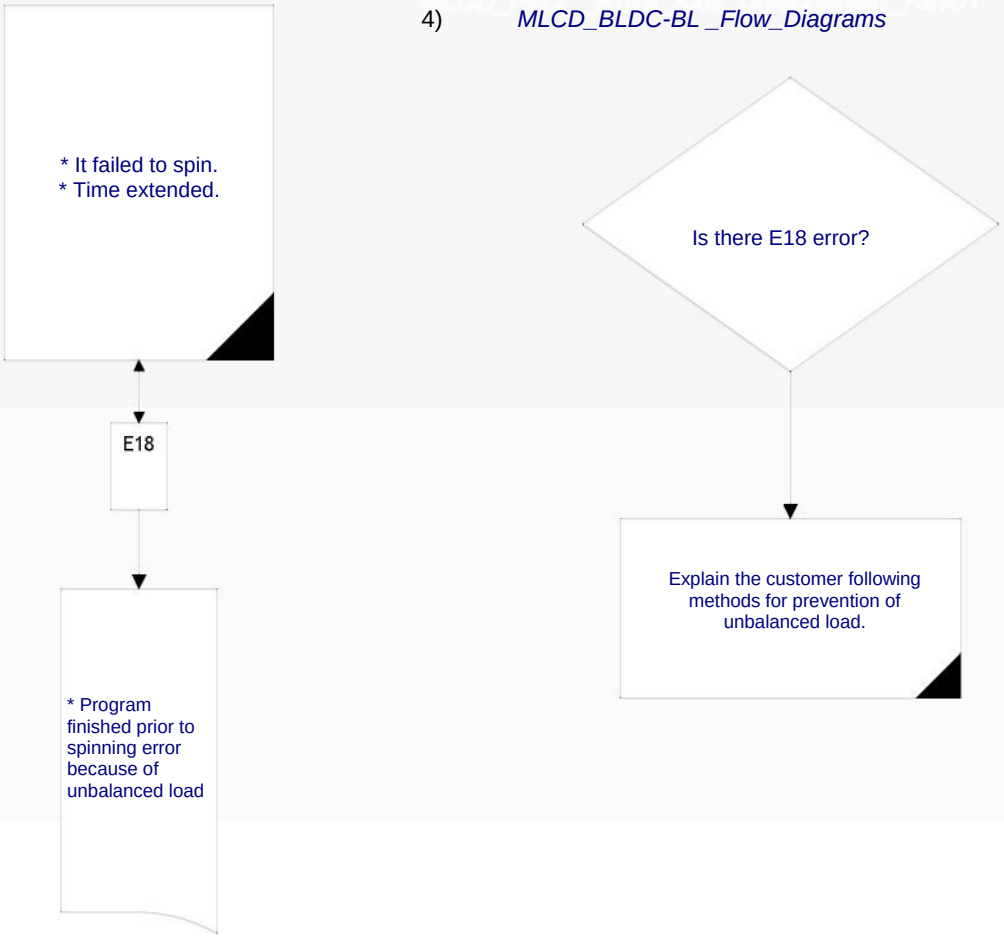
Replace the motor. Start spin program again

Check Tacho cable. Start spin program again



Reasons and prevention methods of foam formation.

1) If detergent is added in the prewash compartment although prewash cycle is not selected, detergent is taken from this compartment when rinsing and this causes foam formation.
2) You should use laundry detergents for automatic machines.
3) Excessive amount of detergent may be left on the laundry. You should try to use adequate amount only.
4) Keep your detergent in closed and dry places.
5) For lacy laundry you should use less amount of detergent than you generally use.
6) You should not use too much softener.



Reasons for terminating the program before spinning as a result of unbalanced load detection.

1) When you use the machine with less quantity of laundry, it may pile up at one side of the drum. When high speeds are reached under an unbalanced load, washing machine will likely be damaged. For this reason, when the unbalanced load in the machine is calculated as more than the limit value, it will not spin for safety purposes.
2) When the machine is operated with only one pullover, bathrobe or towel, piling up probability of the laundry at one point in the drum is quite high. Try not to wash such laundry as one piece as much as you can.

Can the program be selected?

No

Program selection knob is not functioning.

No error code

Is (Softener) icon flashing on the display?

Yes

No

Picture PSA-1: Is the KN2 connector attached on the board?

Yes

No

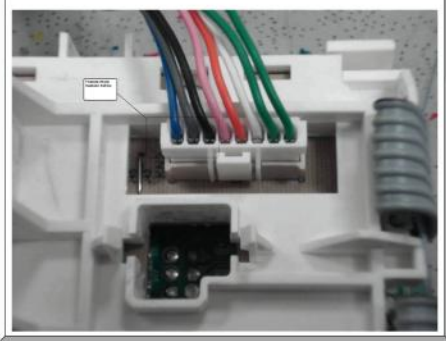
Picture PSA- 2: Is the socket from the KN2 connector attached on the program selection knob?

Yes

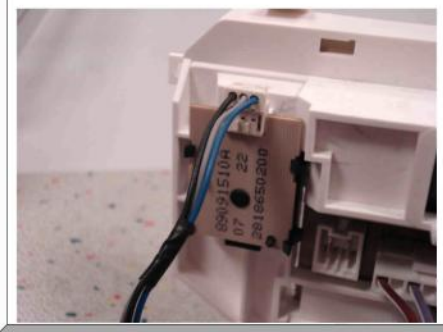
Picture PSA-1: Attach the KN2 socket and the socket from the KN2 connector to the program selection knob.

Change control board.

Picture PSA-1: Is the KN2 connector attached on the board?



Picture PSA-2: Is the socket from the KN2 connector attached on the program selection knob?



Water intake from defective detergent compartment

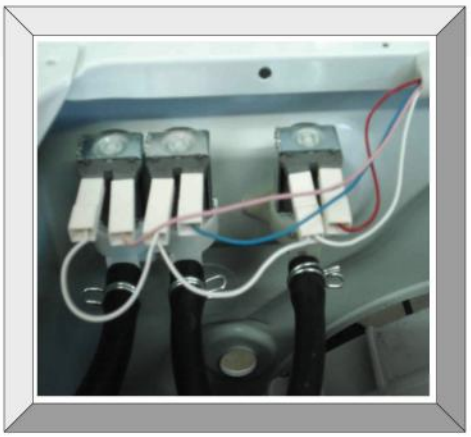
Valves,

KN6.1- common (white)
KN6.3 – Main wash (blue)
KN6.4 –Prewash (Pink)
KN6.5 –Hot wash (red)

Are ends connected?

No

Correct the connections. Check by function test.



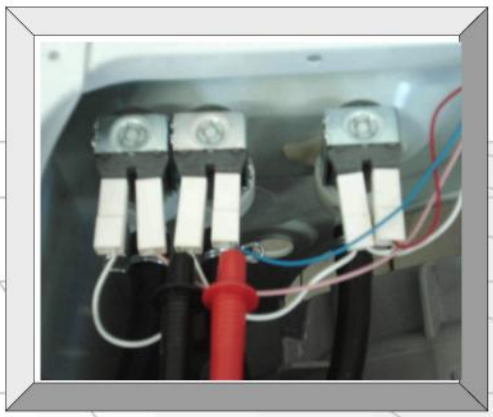
Yes

Check detergent box compartments by conducting function test on the machine.
Check if there is 220 VAC on the valve during test steps

Is there 220VAC voltage on the relevant valve during water intake from each compartment?

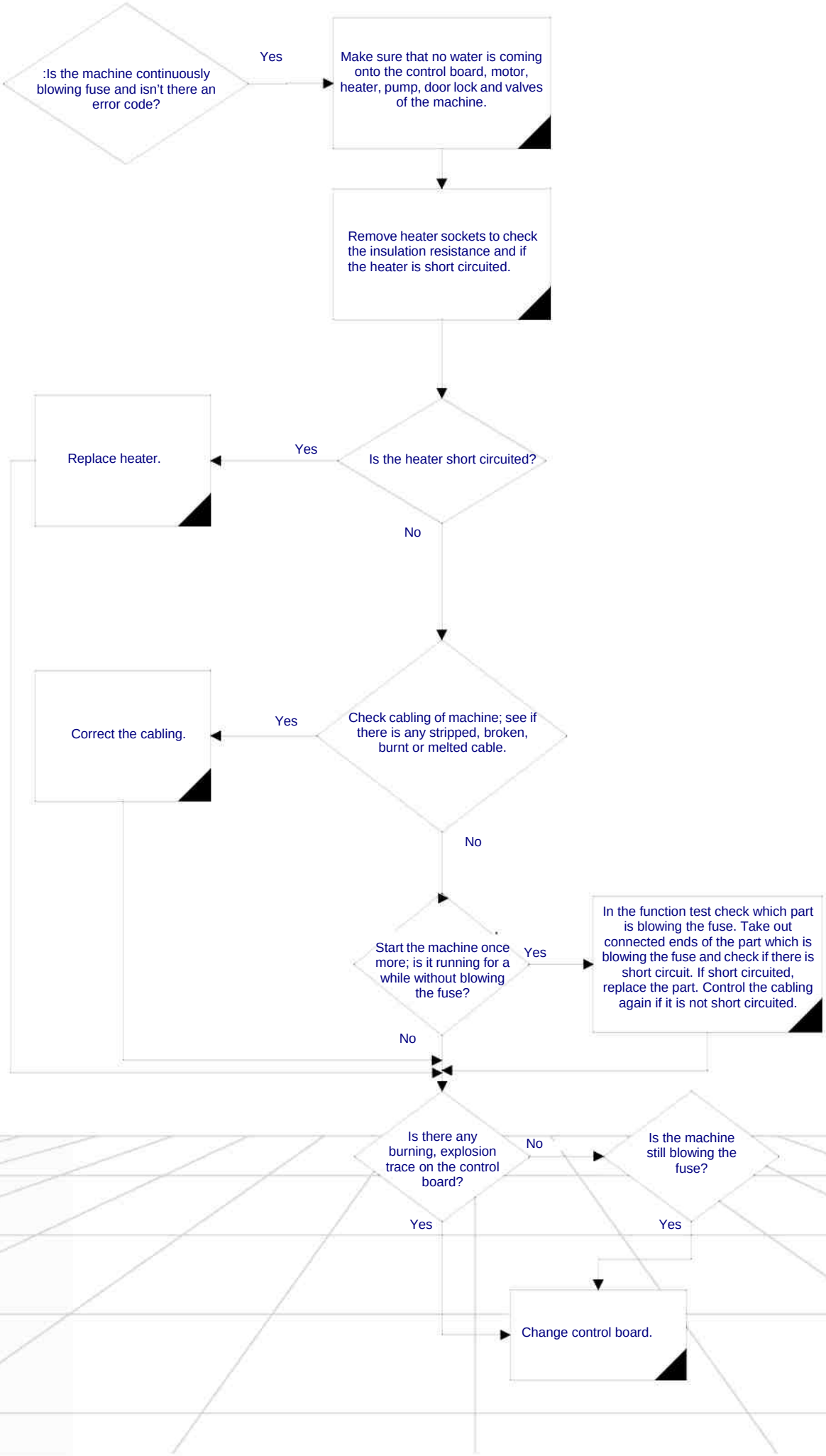
Yes

Replace the valve.



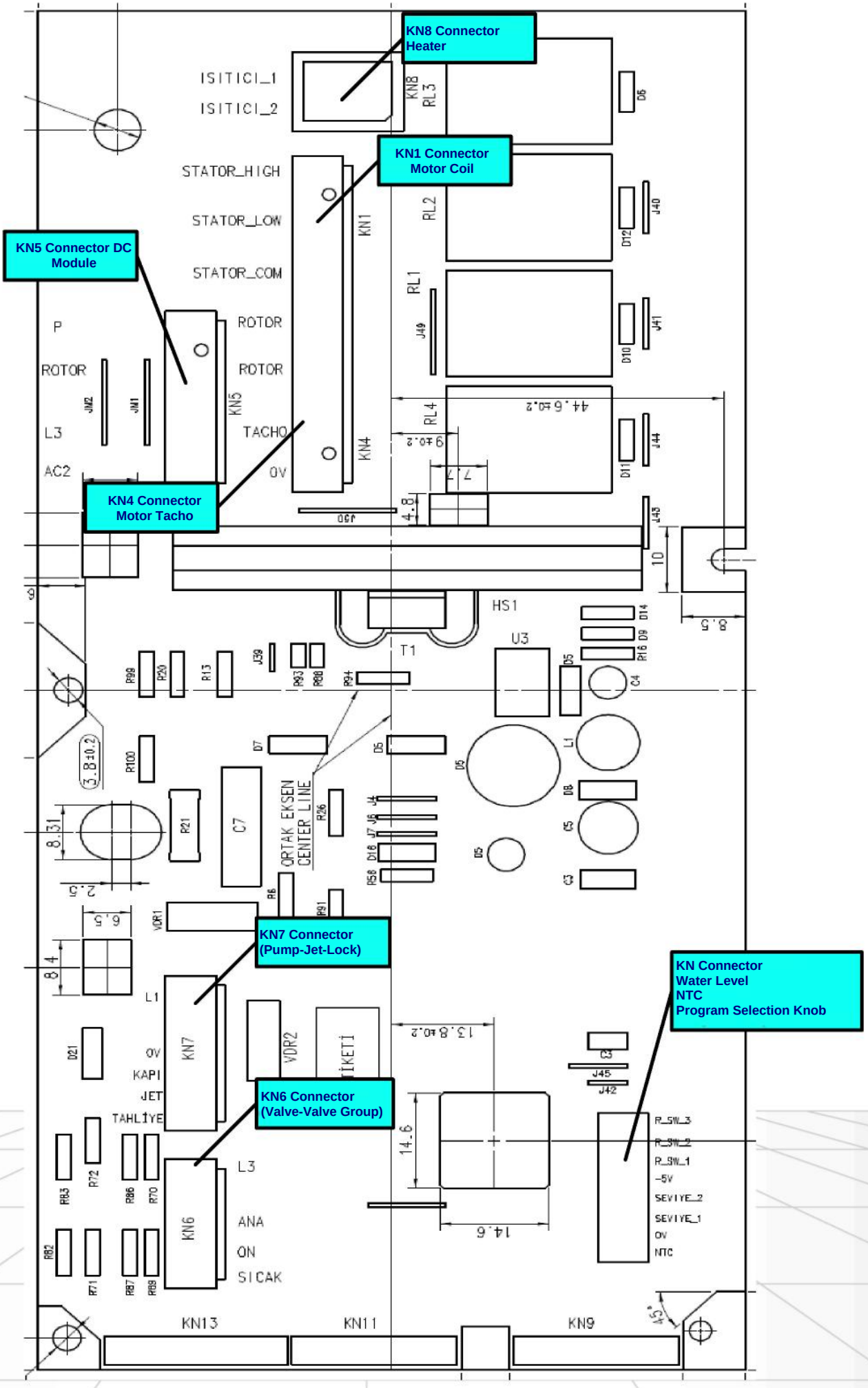
No

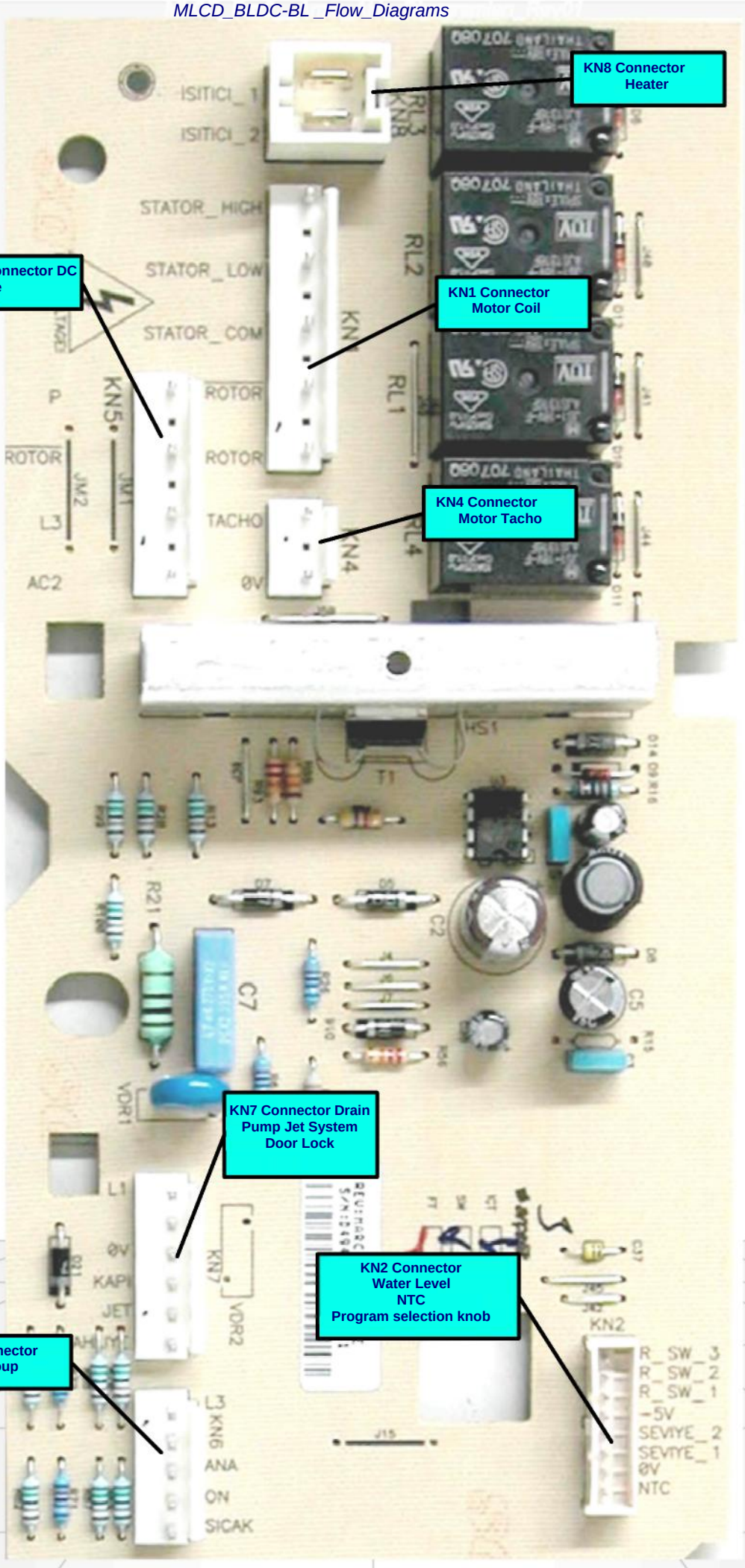
Change control board.

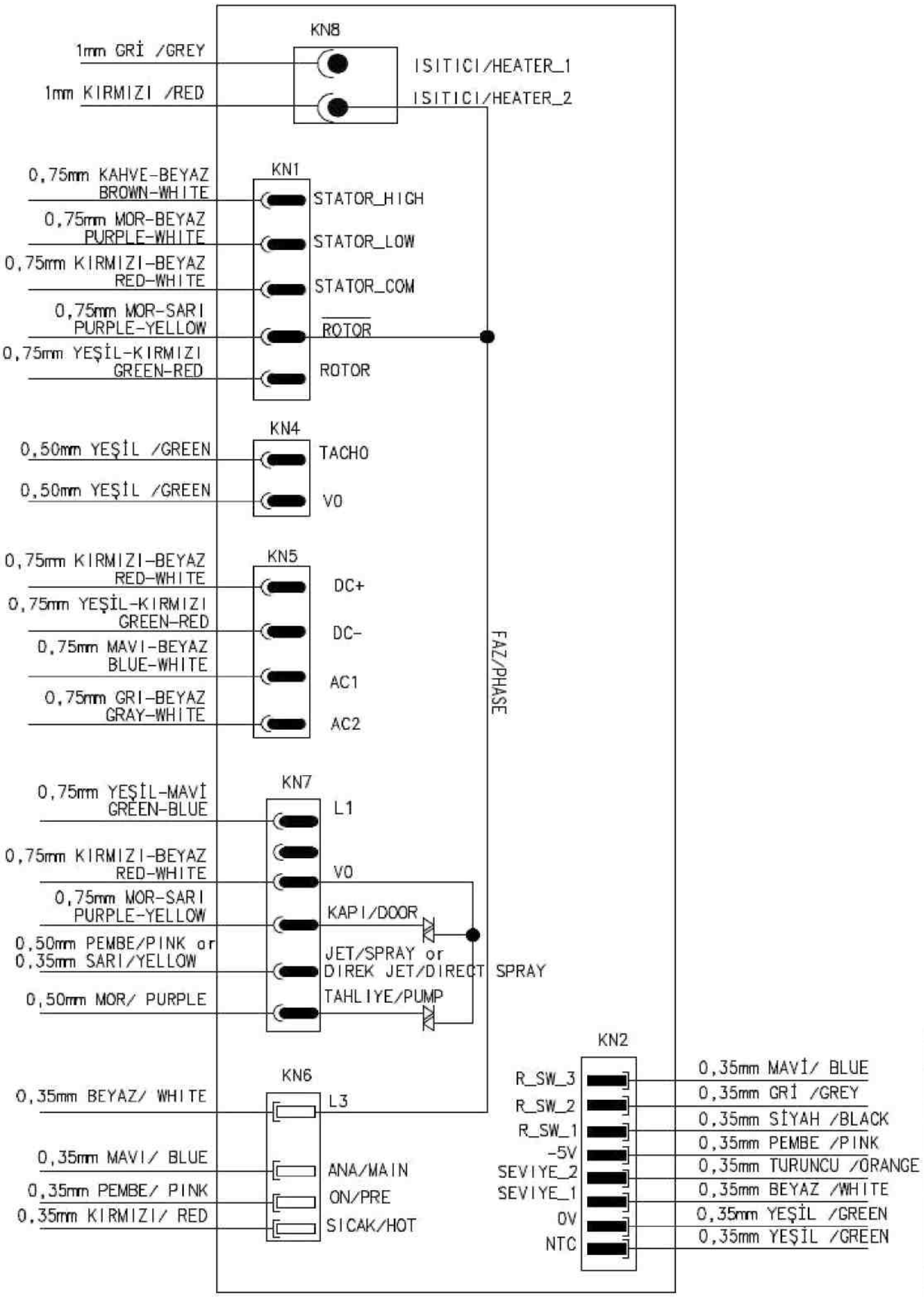

:Is the machine continuously blowing fuse and isn't there an error code?
Yes
Make sure that no water is coming onto the control board, motor, heater, pump, door lock and valves of the machine.
Remove heater sockets to check the insulation resistance and if the heater is short circuited.
Is the heater short circuited?
Yes
Replace heater.
No
Check cabling of machine; see if there is any stripped, broken, burnt or melted cable.
Yes
Correct the cabling.
No
Start the machine once more; is it running for a while without blowing the fuse?
Yes
In the function test check which part is blowing the fuse. Take out connected ends of the part which is blowing the fuse and check if there is short circuit. If short circuited, replace the part. Control the cabling again if it is not short circuited.
No
Is there any burning, explosion trace on the control board?
No
Is the machine still blowing the fuse?
Yes
Yes
Change control board.

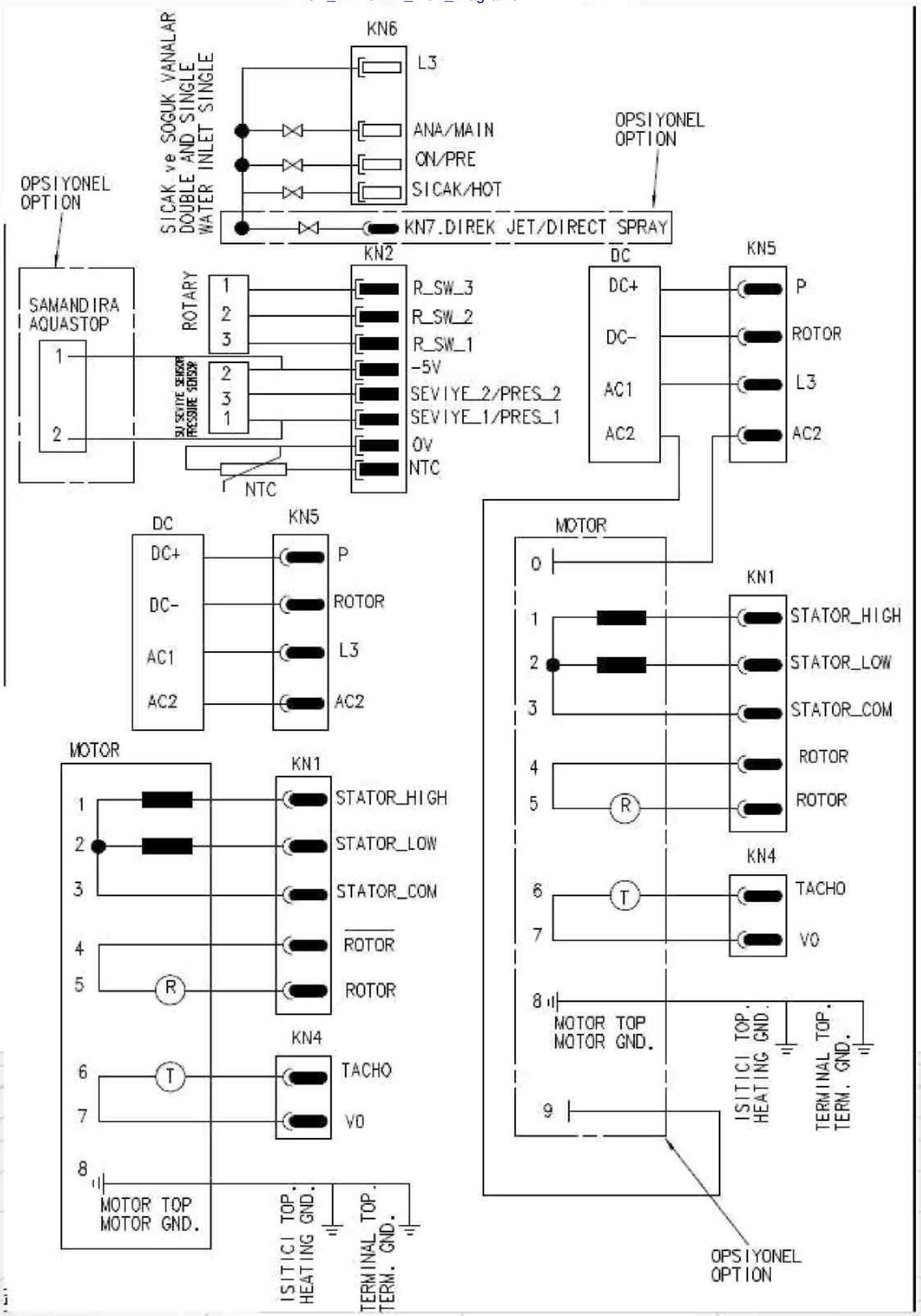
Error code to be displayed when entered into service mode	ERROR
E01	* Heater ntc open circuit error or * Heater ntc short circuit error
E02	* Heater open circuit error
E03	Heater always active error
E04	* Valve triac short circuit or * Valve triac diode error
E05	* Pump triac open circuit or * Pump clogged or * Pump triac diode or * Pump rotor locked, cannot rotate error
E06	* Motor triac short circuit or * Motor triac diode mode error.
E07	* Water level reading error
EOS	* Water cut or *Valve triac open or Pump triac short circuit error
E09	* Door lock triac open circuit error
E10	* Door lock triac short circuit error
E11	* Motor open circuit or *Tako open circuit
E17	*Washing machine detected foam 5 times or more; this is a WARNING, not error
E18	* Program finished without spinning because of unbalanced load. This is a WARNING, not an error.

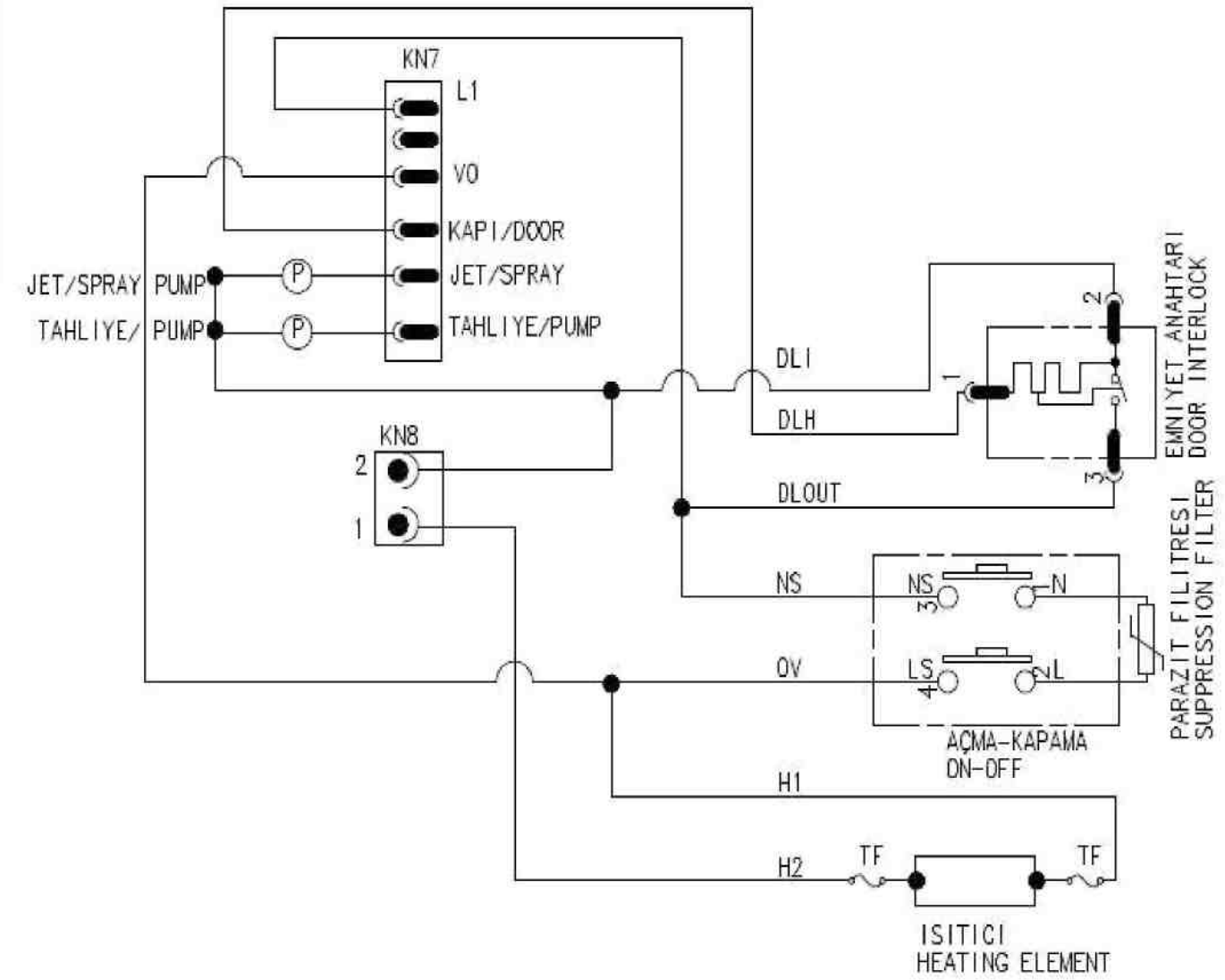
APPENDIX_ 1 error display


KN8 Connector
Heater
KN1 Connector
Motor Coil
KN5 Connector DC
Module
KN4 Connector
Motor Tacho
KN7 Connector
(Pump-Jet-Lock)
KN6 Connector
(Valve-Valve Group)
KN Connector
Water Level
NTC
Program Selection Knob
ISITICI_1
ISITICI_2
STATOR_HIGH
STATOR_LOW
STATOR_COM
ROTOR
ROTOR
TACHO
0V
P
ROTOR
L3
AC2
KN8
KN1
KN5
KN4
KN7
KN6
KN13
KN11
KN9
HS1
T1
U3
ORTAK EKSEN
CENTER LINE
VDR1
VDR2
KAPI
JET
TAHLİYE
L3
ANA
ON
SICAK
R_SW_3
R_SW_2
R_SW_1
-5V
SEVIYE_2
SEVIYE_1
0V
NTC


KN8 Connector Heater
KN5 Connector DC Module
KN1 Connector Motor Coil
KN4 Connector Motor Tacho
KN7 Connector Drain Pump Jet System Door Lock
KN2 Connector Water Level NTC Program selection knob
KN6 Connector Valve Group
ISITICI_1
ISITICI_2
STATOR_HIGH
STATOR_LOW
STATOR_COM
ROTOR
TACHO
0V
AC2
KN5
KN1
KN4
KN7
KN2
KN6
RL1
RL2
RL3
RL4
HS1
T1
VDR1
VDR2
R_SW_3
R_SW_2
R_SW_1
-5V
SEVIYE_2
SEVIYE_1
NTC
ANA
ON
SICAK


KN8
1mm GRİ /GREY
1mm KIRMIZI /RED
ISITICI/HEATER_1
ISITICI/HEATER_2
KN1
0,75mm KAHVE-BEYAZ
BROWN-WHITE
0,75mm MOR-BEYAZ
PURPLE-WHITE
0,75mm KIRMIZI-BEYAZ
RED-WHITE
0,75mm MOR-SARI
PURPLE-YELLOW
0,75mm YEŞİL-KIRMIZI
GREEN-RED
STATOR_HIGH
STATOR_LOW
STATOR_COM
ROTOR
ROTOR
KN4
0,50mm YEŞİL /GREEN
0,50mm YEŞİL /GREEN
TACHO
VO
KN5
0,75mm KIRMIZI-BEYAZ
RED-WHITE
0,75mm YEŞİL-KIRMIZI
GREEN-RED
0,75mm MAVI-BEYAZ
BLUE-WHITE
0,75mm GRI-BEYAZ
GRAY-WHITE
DC+
DC-
AC1
AC2
FAZ/PHASE
KN7
0,75mm YEŞİL-MAVİ
GREEN-BLUE
0,75mm KIRMIZI-BEYAZ
RED-WHITE
0,75mm MOR-SARI
PURPLE-YELLOW
0,50mm PEMBE/PINK or
0,35mm SARI/YELLOW
0,50mm MOR/ PURPLE
L1
VO
KAPI/DOOR
JET/SPRAY or
DIREK JET/DIRECT SPRAY
TAHLIYE/PUMP
KN6
0,35mm BEYAZ/ WHITE
0,35mm MAVI/ BLUE
0,35mm PEMBE/ PINK
0,35mm KIRMIZI/ RED
L3
ANA/MAIN
ON/PRE
SICAK/HOT
KN2
R_SW_3
R_SW_2
R_SW_1
-5V
SEVIYE_2
SEVIYE_1
0V
NTC
0,35mm MAVİ/ BLUE
0,35mm GRİ /GREY
0,35mm SİYAH /BLACK
0,35mm PEMBE /PINK
0,35mm TURUNCU /ORANGE
0,35mm BEYAZ /WHITE
0,35mm YEŞİL /GREEN
0,35mm YEŞİL /GREEN


KN6
L3
ANA/MAIN
ON/PRE
SICAK/HOT
SICAK ve SOGUK VANALAR
DOUBLE AND SINGLE
WATER INLET SINGLE
OPSIYONEL
OPTION
KN7.DIREK JET/DIRECT SPRAY
OPSIYONEL
OPTION
SAMANDIRA
AQUASTOP
ROTARY
KN2
R_SW_3
R_SW_2
R_SW_1
-5V
SEVIYE_2/PRES_2
SEVIYE_1/PRES_1
0V
NTC
NTC
DC
DC+
DC-
AC1
AC2
KN5
P
ROTOR
L3
AC2
MOTOR
KN1
STATOR_HIGH
STATOR_LOW
STATOR_COM
ROTOR
ROTOR
KN4
TACHO
VO
MOTOR TOP
MOTOR GND.
ISITICI TOP.
HEATING GND.
TERMINAL TOP.
TERM. GND.
OPSIYONEL
OPTION


KN7
L1
VO
KAPI/DOOR
JET/SPRAY
TAHLIYE/PUMP
JET/SPRAY PUMP
TAHLIYE/ PUMP
P
P
KN8
2
1
DLI
DLH
DLOUT
NS
OV
H1
H2
EMNIYET ANAHTARI
DOOR INTERLOCK
PARAZIT FILITRESI
SUPPRESSION FILTER
NS
N
LS
L
AÇMA-KAPAMA
ON-OFF
TF
TF
ISITICI
HEATING ELEMENT