

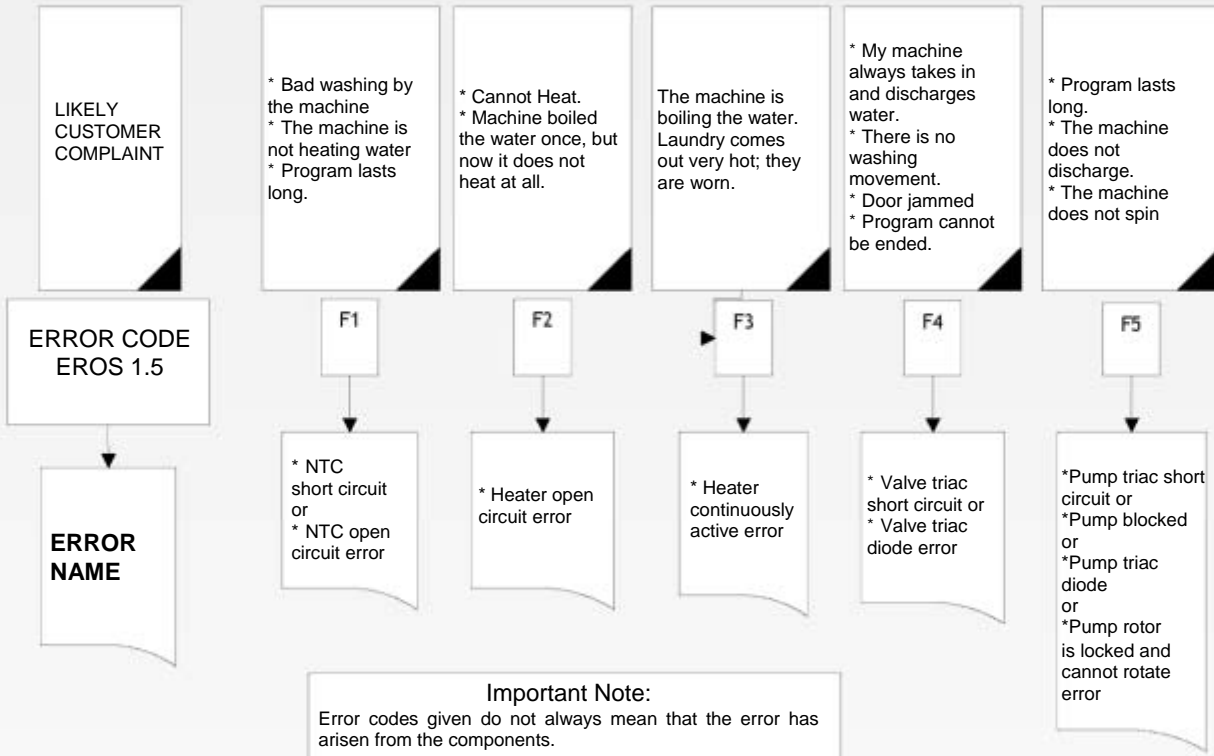
Error Code Reading Method:

Error code is shown as (E..) on the display screen. Error code can be accessed in two ways.

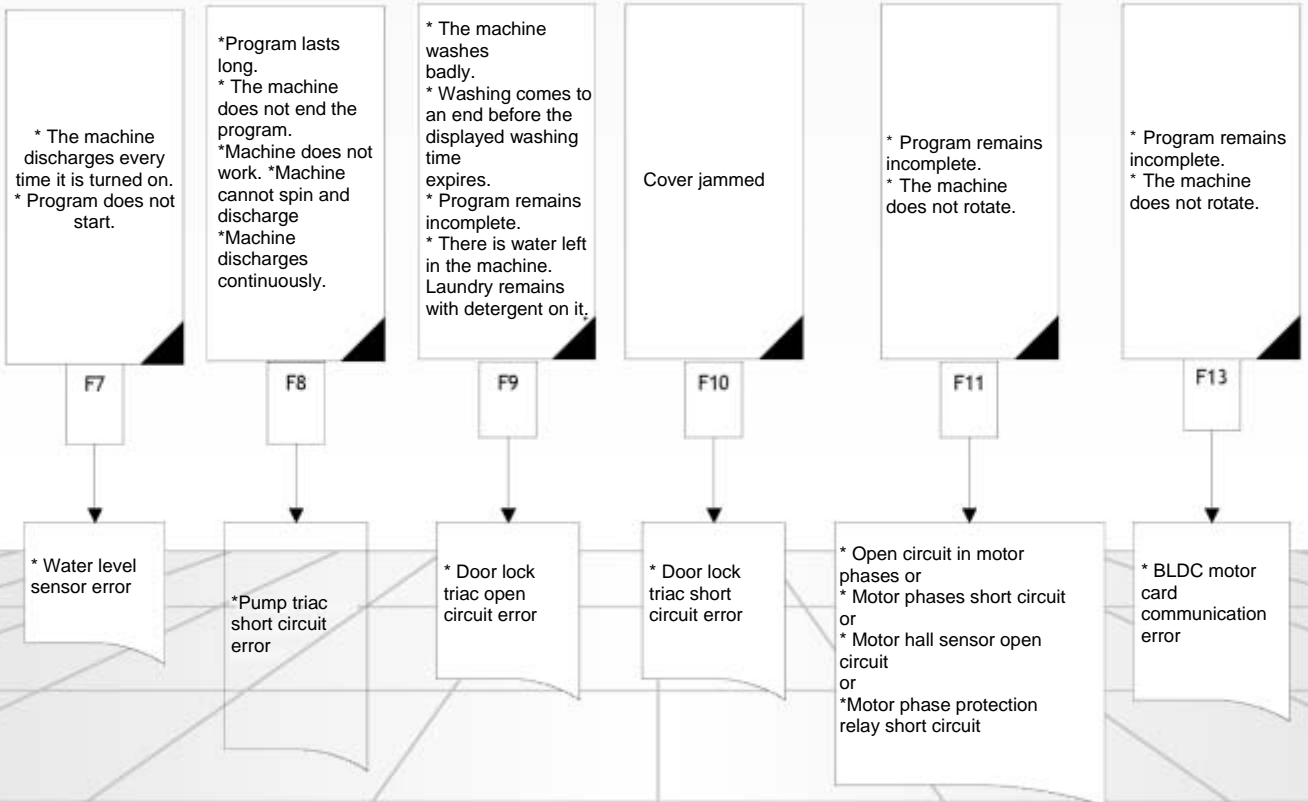
1) Error code is displayed at the beginning of function test until 'Start/Pause' button is pressed for the second time. Even if a new program has been started, this error code in here will not be cleaned; the last error code occurred will always be displayed here

2) Error code is read by pressing YF1 and YF3 keys simultaneously for 3-5 secs.

When a new program is started, the error on the machine is erased and the error code is no more displayed when YF1-YF3 keys are pressed.



Important Note:
 Error codes given do not always mean that the error has arisen from the components.
 Socket and cable connections must be checked in the first place.
 You should make sure that the problems do not arise from loose contact.



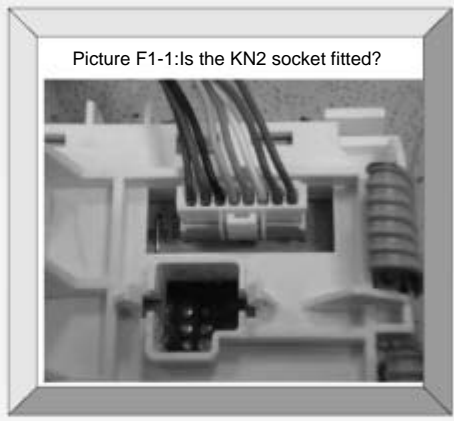
Difference between F11 and F13: If F11 occurs, there is not any error between the motor card and main board with respect to communication. However there cannot be a movement due to a malfunction in the motor or motor card or the cables between them. In fact, in F13 error, there cannot be a movement as the movement order cannot be transmitted to motor card due to lack of communication between the main board and motor card.

* Bad washing by the machine
 * The machine is not heating water
 * Program lasts long.

Important Note:
 The washing machine makes cold washing and ends the program before the heater is activated in NTC open circuit / short circuit and Heater open circuit conditions, i.e. if there is F1, F2 or F3 error.

Is there F1 error?

Yes



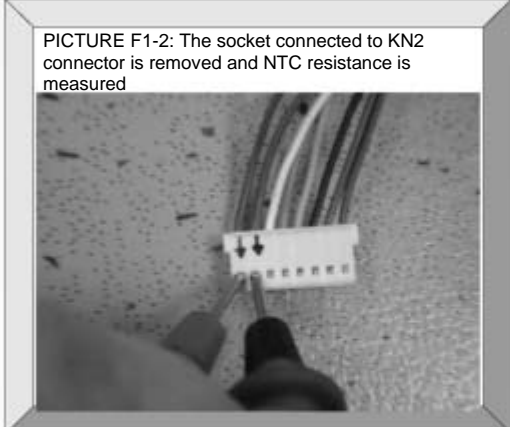
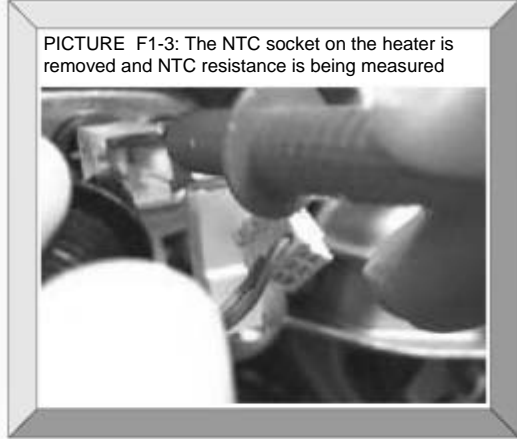
Is KN2 socket on the control card attached?

No

Attach KN2 socket. (Picture F1-1)

Yes

Take out KN2 socket and measure the resistance between the 1st (green) and 2nd (green) pins of the socket (Picture F1-2)



The measured value is NTC resistance. Does it show under 25°C temperature approx. 4700 OHM? (Picture F1-3) \ (Shouldn't be open circuit / short circuit)

Yes

Replace the control card.

No

Open the back cover of the machine. After removing the NTC socket on the heater, measure the NTC value directly on the NTC. (Picture F1-3)

Yes

Does it show under 25°C temperature approx. 4700 OHM? (Shouldn't be open circuit / short circuit)

Important Note:
 The washing machine makes cold washing and ends the program before the heater is activated in NTC open circuit / short circuit and Heater open circuit conditions, i.e. if there is F1, F2 or F3 error.

As the value measured over the control card socket is wrong, cabling is erroneous; check it. There should not be loose or erroneous cable and socket.

No

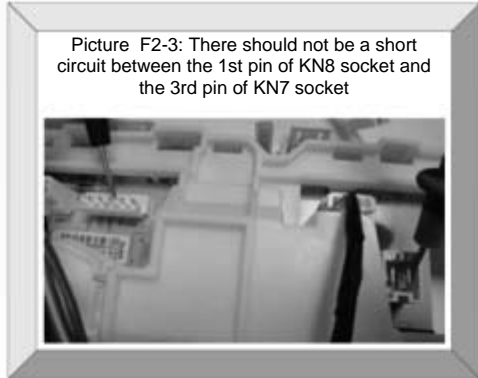
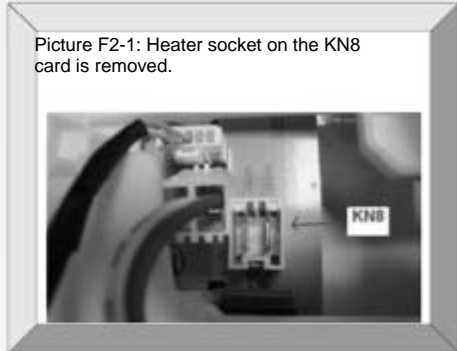
Replace NTC. Re-attach the removed sockets into their places

INFORMATION: NTC resistance decreases as its temperature rises. For example, it shows a resistance of 9500 Ohm under 10 C and 1700 Ohm under 50 C. These values are not erroneous.

* Cannot Heat.
* Machine boiled the water once, but now it does not heat at all.

Important Note:
The washing machine makes cold washing and ends the program before the heater is activated in NTC open circuit, short circuit and Heater open circuit conditions, i.e. if there is F1, F2 or F3 error.

Is there F2 error?



F2

* Heater open circuit error

Remove the panel for a comfortable measuring. Remove KN8 (Picture F2-1) Heater socket and KN7 (Picture F2-2) socket.

Check to see if there is a short circuit between the 1st pin of KN8 and the 3rd pin of KN7. (Picture F2-3)

Replace the control card.

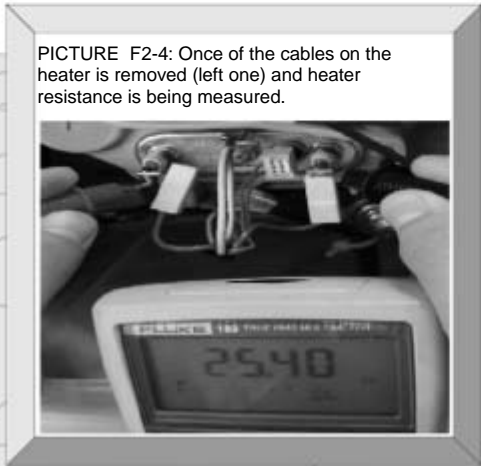
Open the back cover of the machine. Measure heater resistance by removing at least one of the heater terminals; is the resistance 25 Ohms? (Picture F2-4)

Yes

You may start the washing program.

Replace the heater

Does the heater operate although there is no water?



Check water level sensor. Measure frequency between pins 1 and 3 while the machine is empty and energized. It should be around 25560 Hertz. (Picture F2-5)



The machine is boiling the water. Laundry comes out very hot; they are worn.

F3

* Heater continuously active error

Is there F3 error?

Remove the panel for a comfortable measuring. Remove KN8 (Picture F3-1) Heater socket and KN7 (Picture F3-2) socket.

Check to see if there is a short circuit between the 1st pin of KN8 and the 3rd pin of KN7. (Picture F3-3)

Does the heater operate although there is no water?

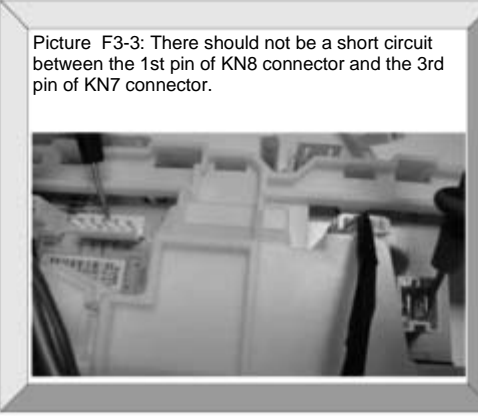
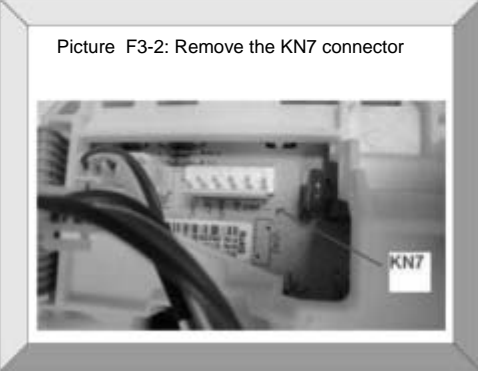
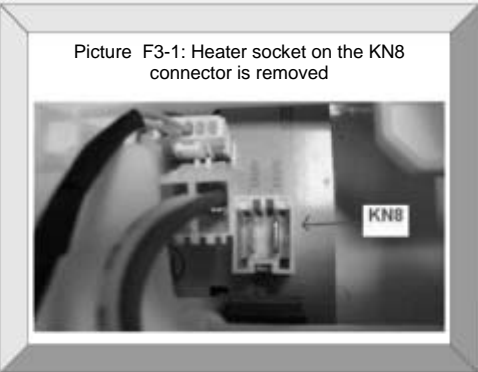
Replace the control card.

Check water level sensor. Measure frequency between pins 1 and 3 while the machine is empty and energized. It should be around 25560 Hertz. (Picture F3-5)

Open the back cover of the machine. Measure heater resistance by removing at least one of the heater terminals; is the resistance 25 Ohms? (Picture F3-4)

Important Note:
The washing machine makes cold washing and ends the program before the heater is activated in NTC open circuit / short circuit and Heater open circuit conditions, i.e. if there is F1, F2 or F3 error.

Replace the heater



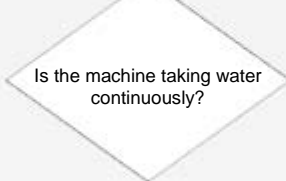
* My machine always takes in and discharges water.
* There is no washing movement.
* Door jammed
* Program cannot be ended.

F4

* Valve triac short circuit
or
* Valve triac diode error



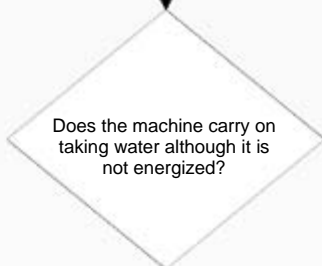
Yes



Yes

Unplug the machine and check if it continues taking in water.

Yes

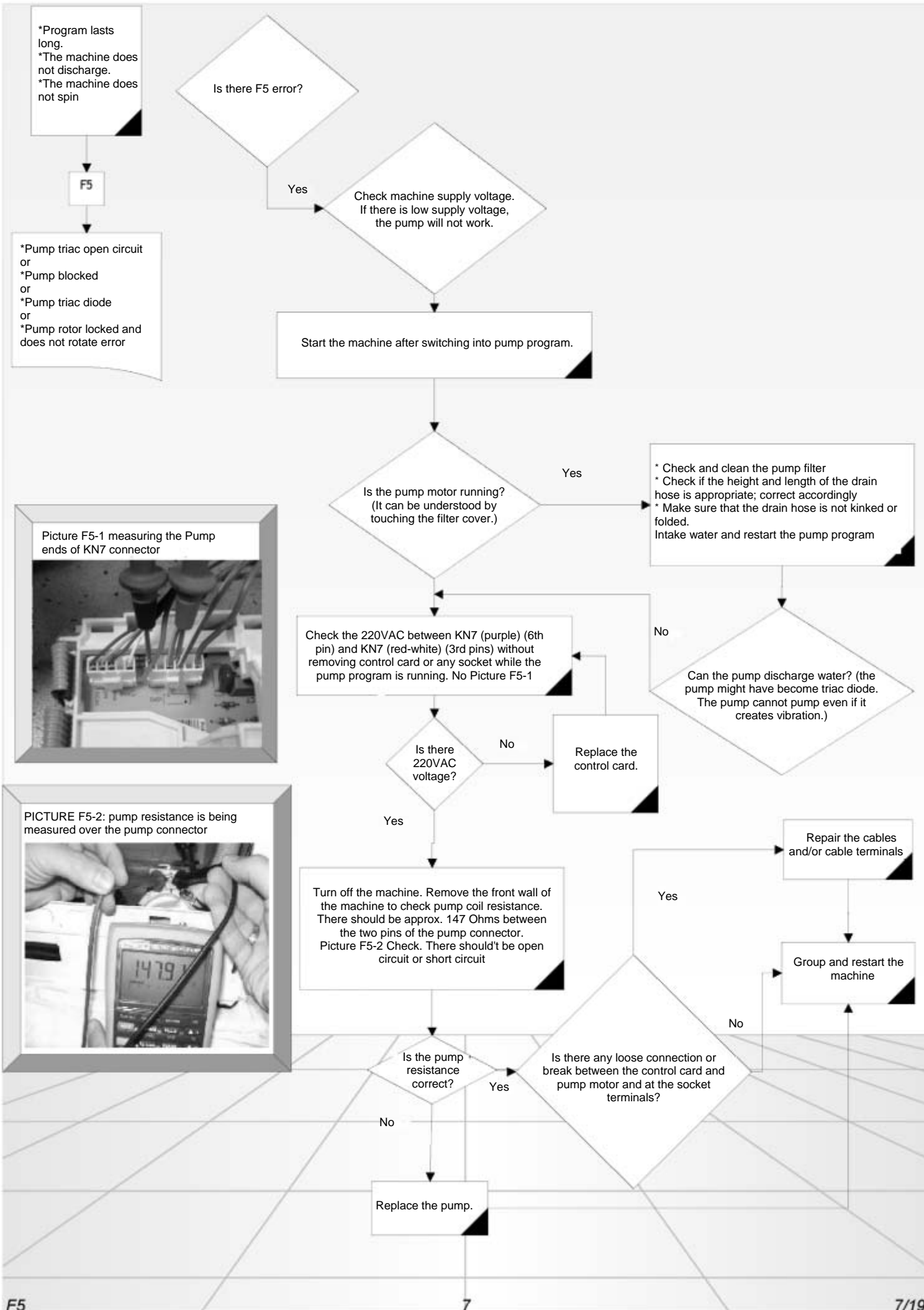


Yes

Replace the water intake valve

No

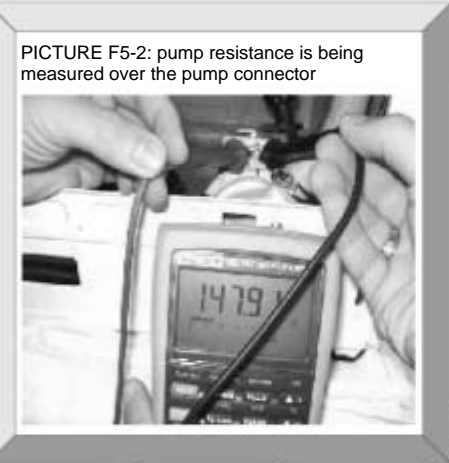
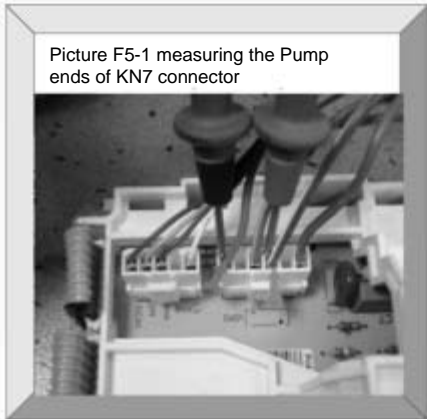
Replace the control card.



*Program lasts long.
*The machine does not discharge.
*The machine does not spin

F5

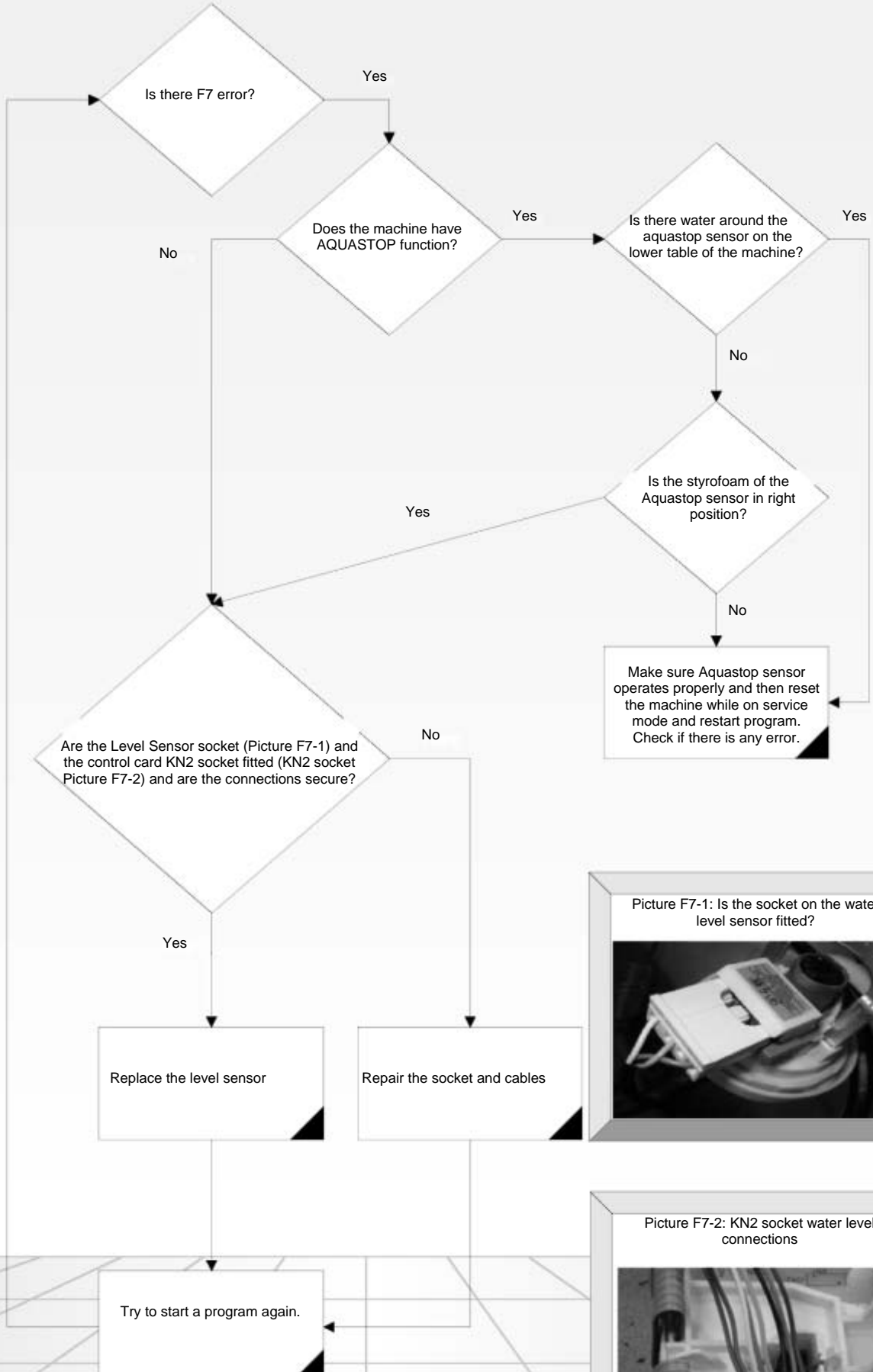
*Pump triac open circuit or
*Pump blocked or
*Pump triac diode or
*Pump rotor locked and
does not rotate error



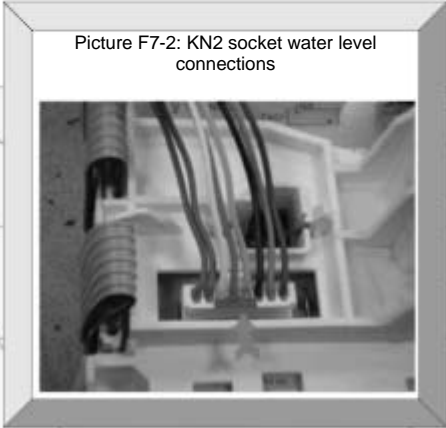
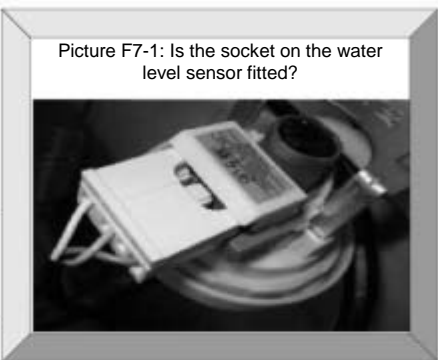
* The machine discharges every time it is turned on.
* Program does not start.

F7

* Water level sensor error



Make sure Aquastop sensor operates properly and then reset the machine while on service mode and restart program. Check if there is any error.



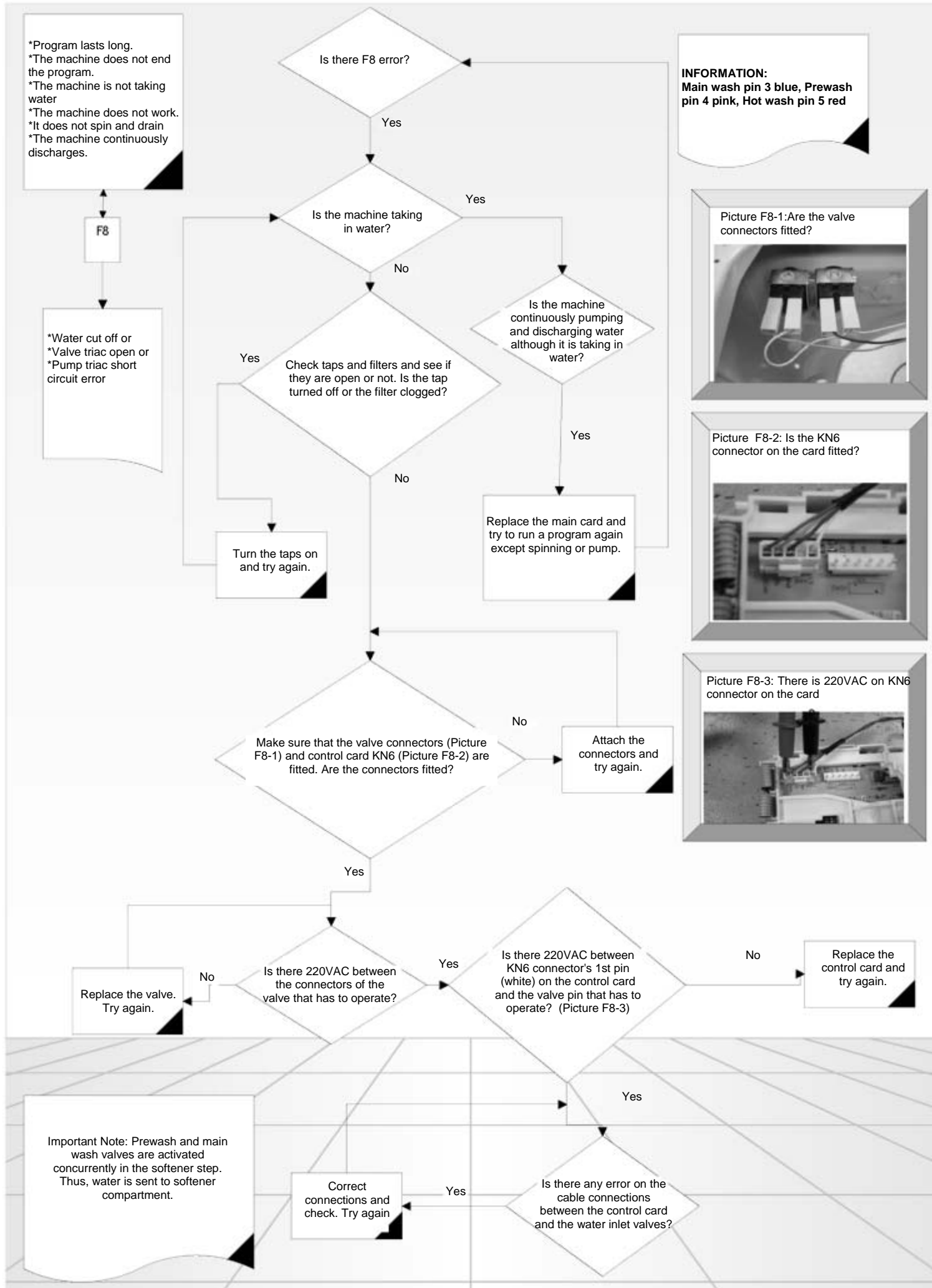
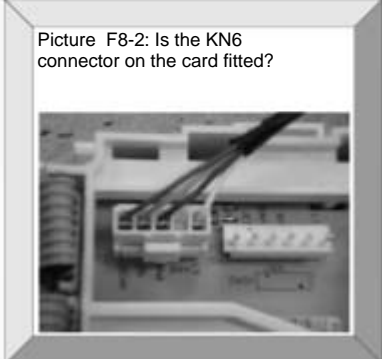
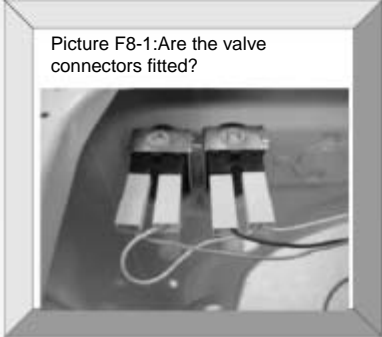
Important Note:
In washing machines with aquastop function, aquastop circuit is connected to level sensor cable. If aquastop float detects a water level for any reason, the machine will perceive it as a water sensor error.

*Program lasts long.
 *The machine does not end the program.
 *The machine is not taking water
 *The machine does not work.
 *It does not spin and drain
 *The machine continuously discharges.

INFORMATION:
 Main wash pin 3 blue, Prewash pin 4 pink, Hot wash pin 5 red

F8

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



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

* Poor washing by the machine
* Washing comes to an end before the displayed washing time expires.
* Program remains incomplete.
* There is water left in the machine. Laundry remains with detergent on it.

F9

* Door lock triac open circuit error

Is there F9 error?

Yes

Replace the control card and try again.

Cover jammed

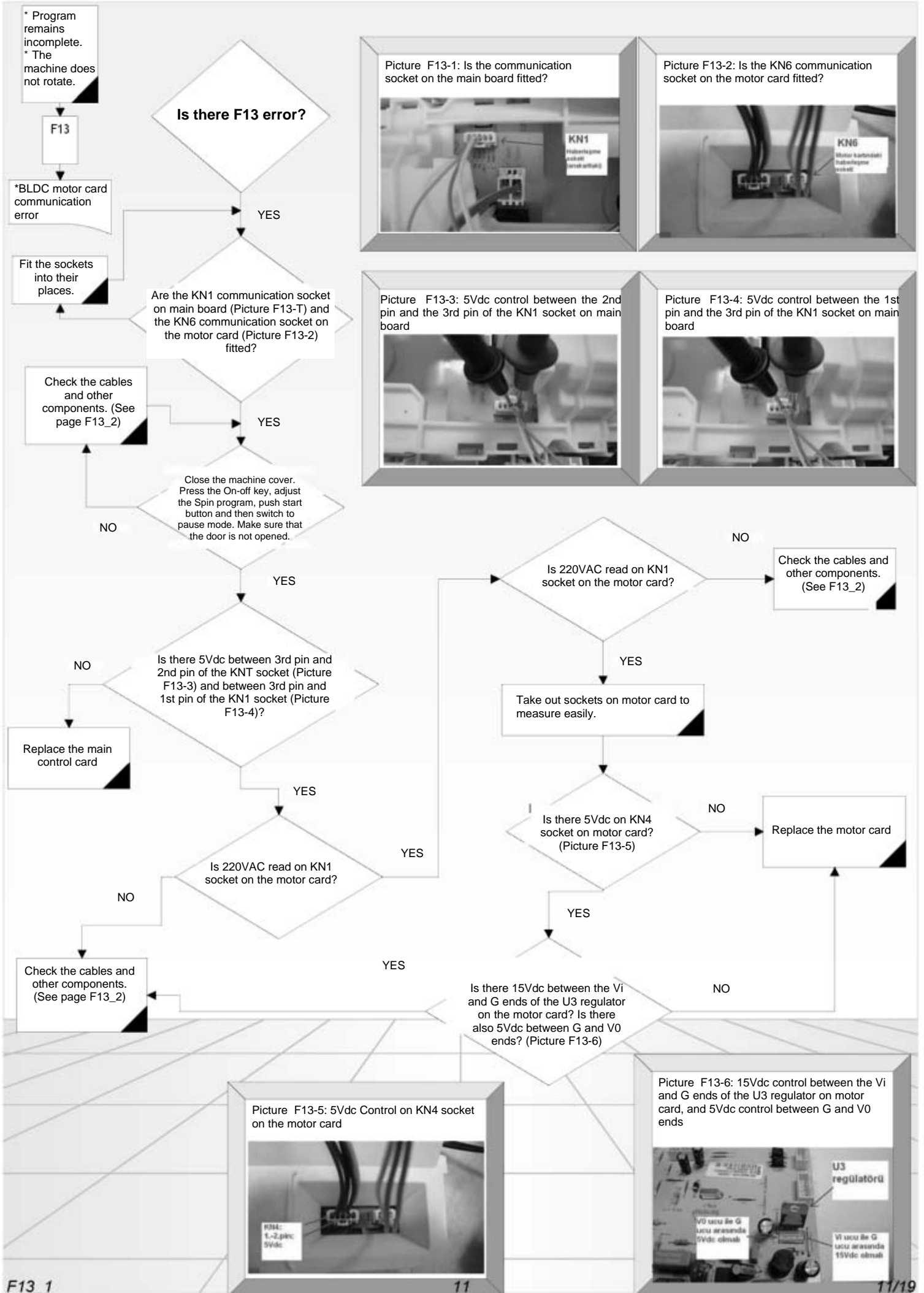
F10

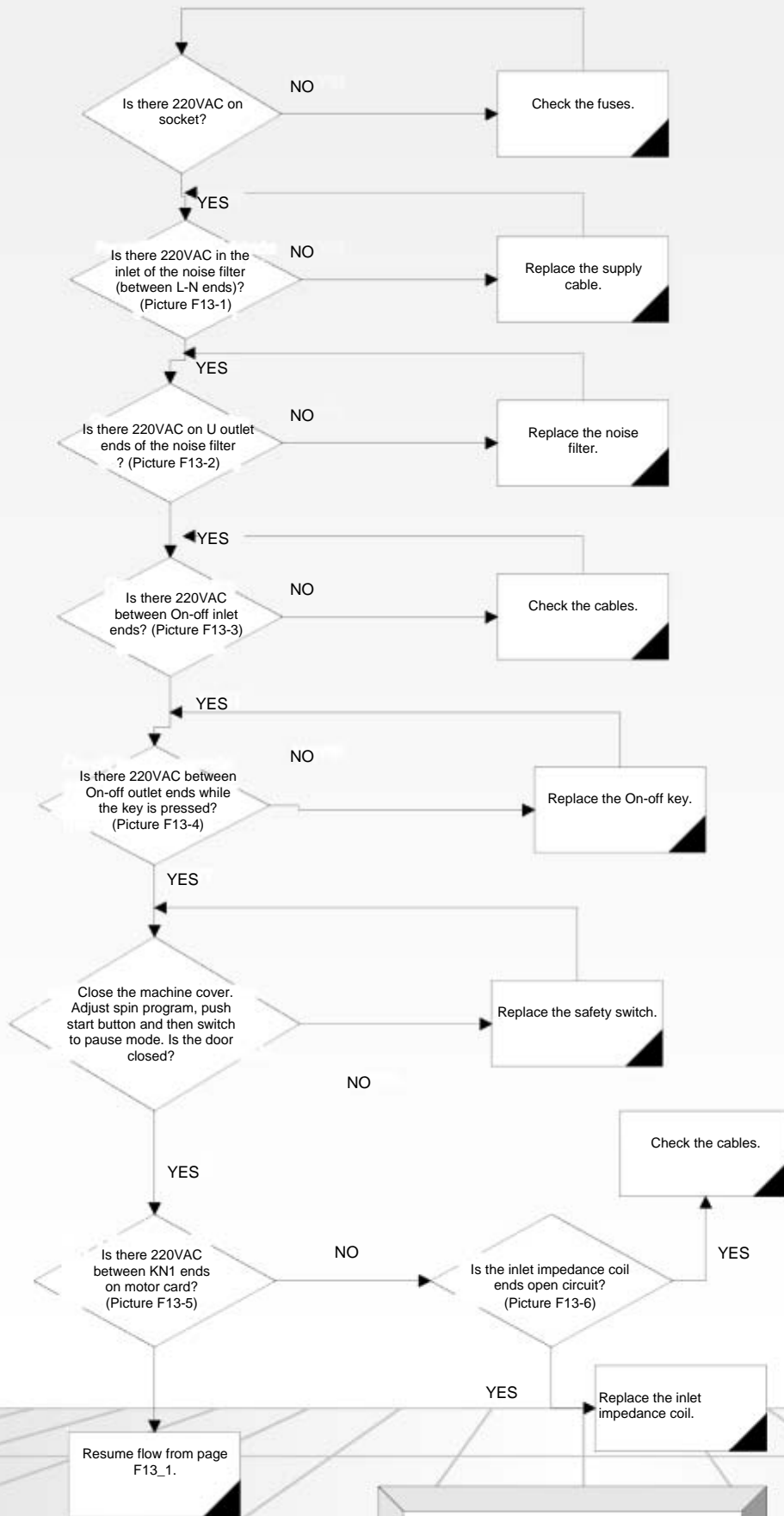
*Door lock triac short circuit error

Is there F10 error?

Yes

Replace the control card and try again.





Picture F13-1: 220VAC control on L-N ends of the noise filter



Picture F13-2: 220VAC control on U outlet ends of the noise filter



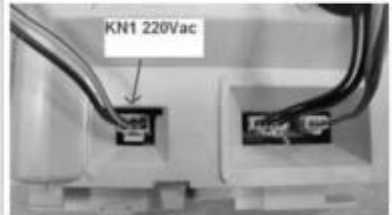
Picture F13-3: 220VAC control between On-Off inlet ends



Picture F13-4: 220VAC control on outlet ends while On-off key is pressed



Picture F13-5: 220VAC control between KN1 ends on motor card



Picture F13-6: Open circuit control of the inlet impedance coil



* Program remains incomplete.
* The machine does not rotate.

F11

*Open circuit in motor phases or
*Motor phases short circuit or
*Motor hall sensor open circuit or
*Motor phase protection relay short circuit

Is there F11 error?

Yes

Take out the motor phase socket which is connected to KN8 on motor card and check if there any open circuit or short circuit in any of the phases. (Picture F11-1)

Yes

Replace the motor

Hayır

No

Is the Motor thermic open circuit? If the lock icon on display screen is flashing, after a while the door might open even though there is water inside

Yes

Motor thermic might have opened it. Wait for the motor to cool down (15min) and check if the thermic is open circuit. (Picture F13-2)

Yes

Replace the motor

No

Cancel the program and start spinning.

Check the hall sensor cables both on the motor side and motor card side. (Picture F11-3)

Yes

Motor still does not move

Yes

Is there 5Vdc on KN4 socket on motor card? (Picture F13-5)

No

Replace the motor card

Yes

Is there 15Vdc between the Vi and G ends of the U3 regulator on the motor card? Is there also 5Vdc between G and V0 ends? (Picture F13-6)

No

Yes

Check the cables and other components. (See page F13_2)

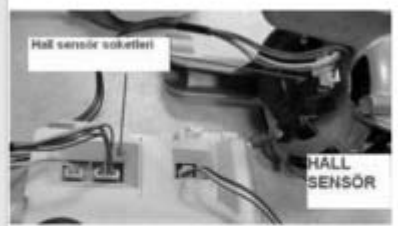
Picture F11-1: Open circuit/short circuit control between the motor phase cables covered with nucleus



Picture F13-2: Open circuit control on Motor thermic



Picture F13-3: Control of the hall sensor cables

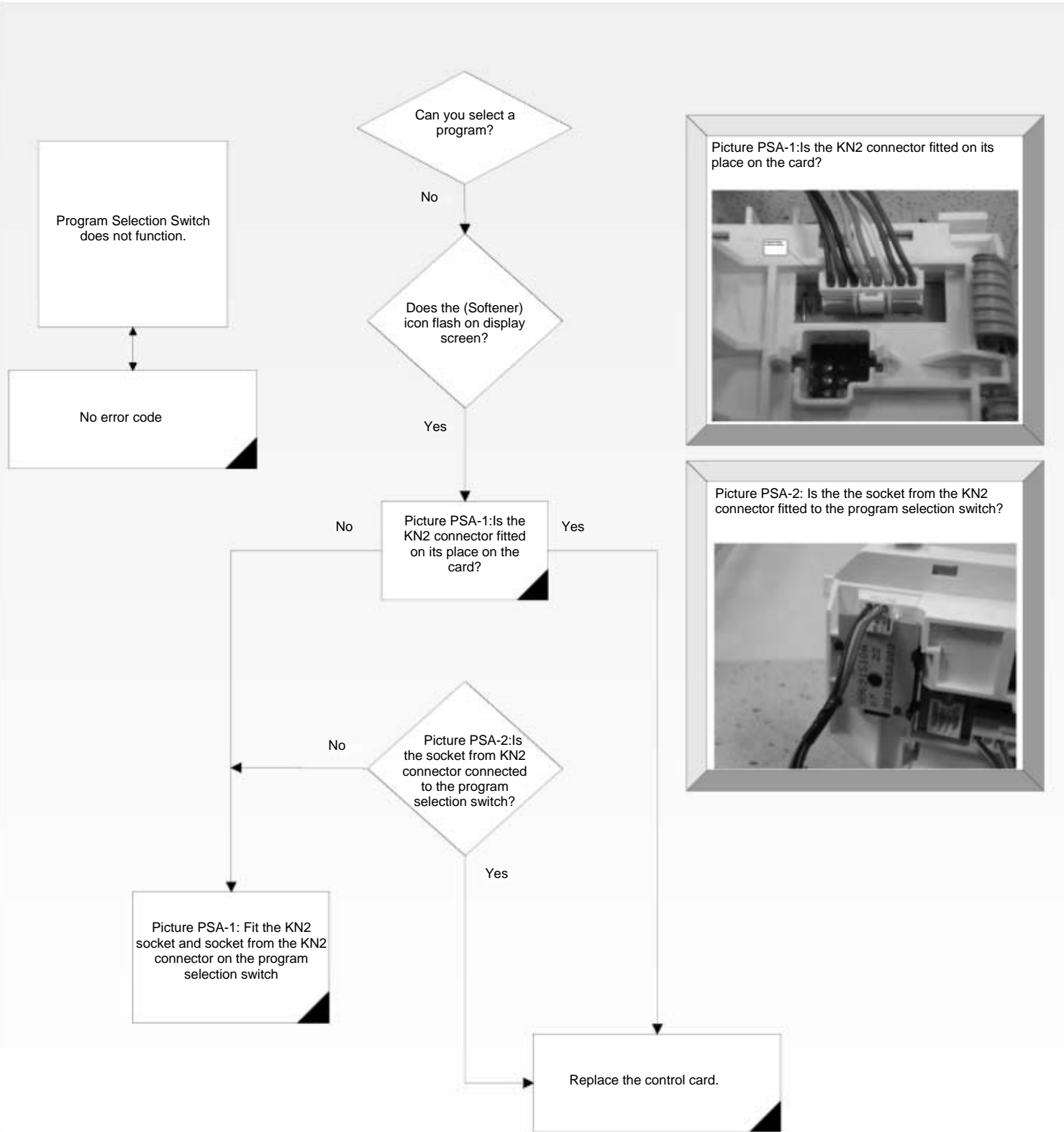


Picture F13-4: 5Vdc Control on KN4 socket on the motor card



Picture F13-6: 15Vdc control between the Vi and G ends of the U3 regulator on motor card, and 5Vdc control between G and V0 ends





Takes in water from the wrong detergent compartment

Valves,
Are KN6.1 - common (white)
KN6.3 - Main wash (blue) KN6.4 -
Prewash (Pink) KN6.5 - Hot
washing (red)
ends connected?

No

Correct the connections. Check
through a function test.

Yes

Perform a function test on the
machine to check compartments of
the detergent box. Check to see if
there is 220 VAC on the relevant
valve during the test steps



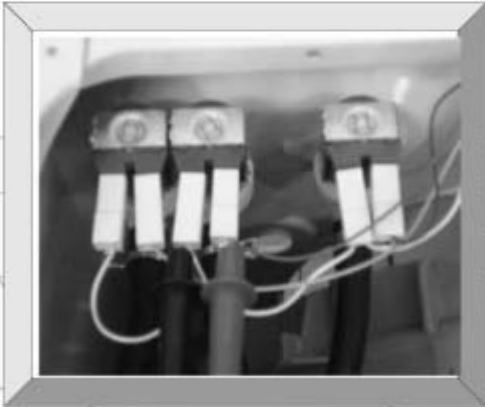
Is there 220VAC voltage on the relevant valve
during water intake from each compartment?

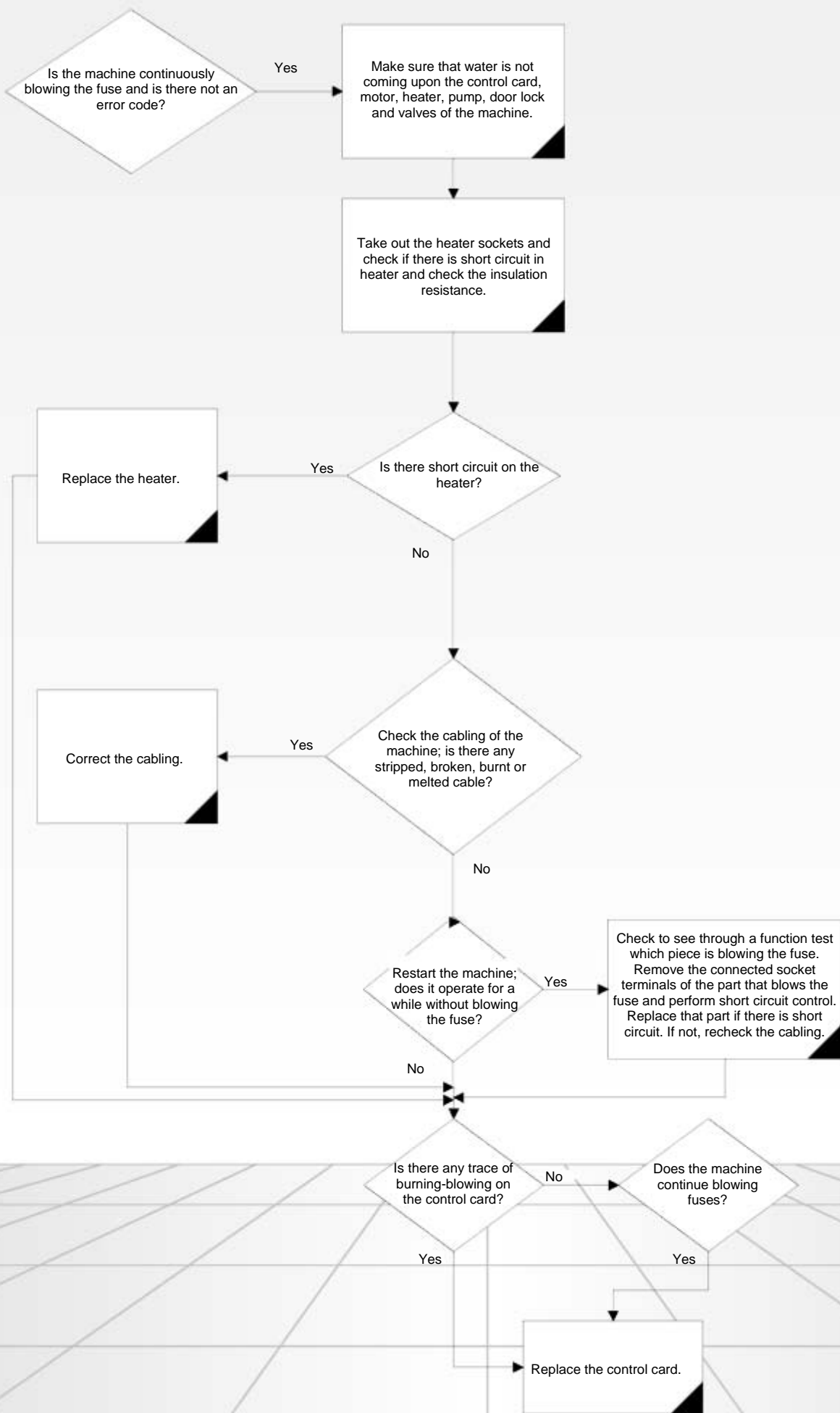
Yes

Replace the valve

No

Replace the control card.





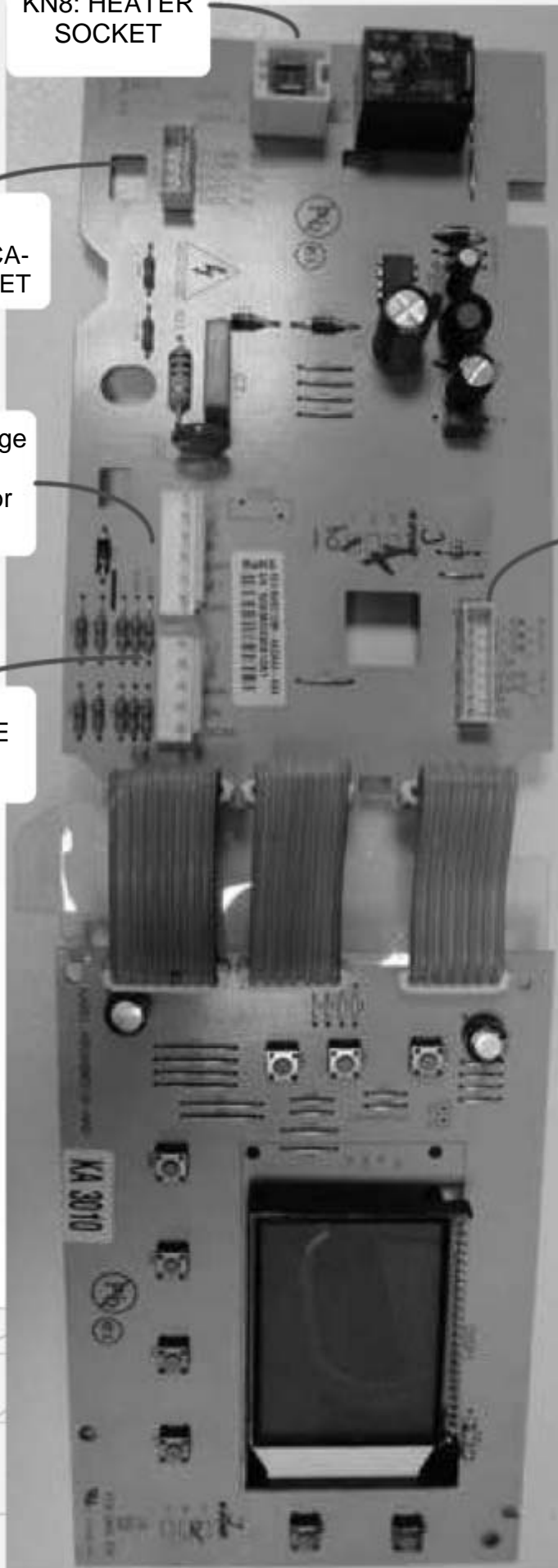
KN8: HEATER
SOCKET

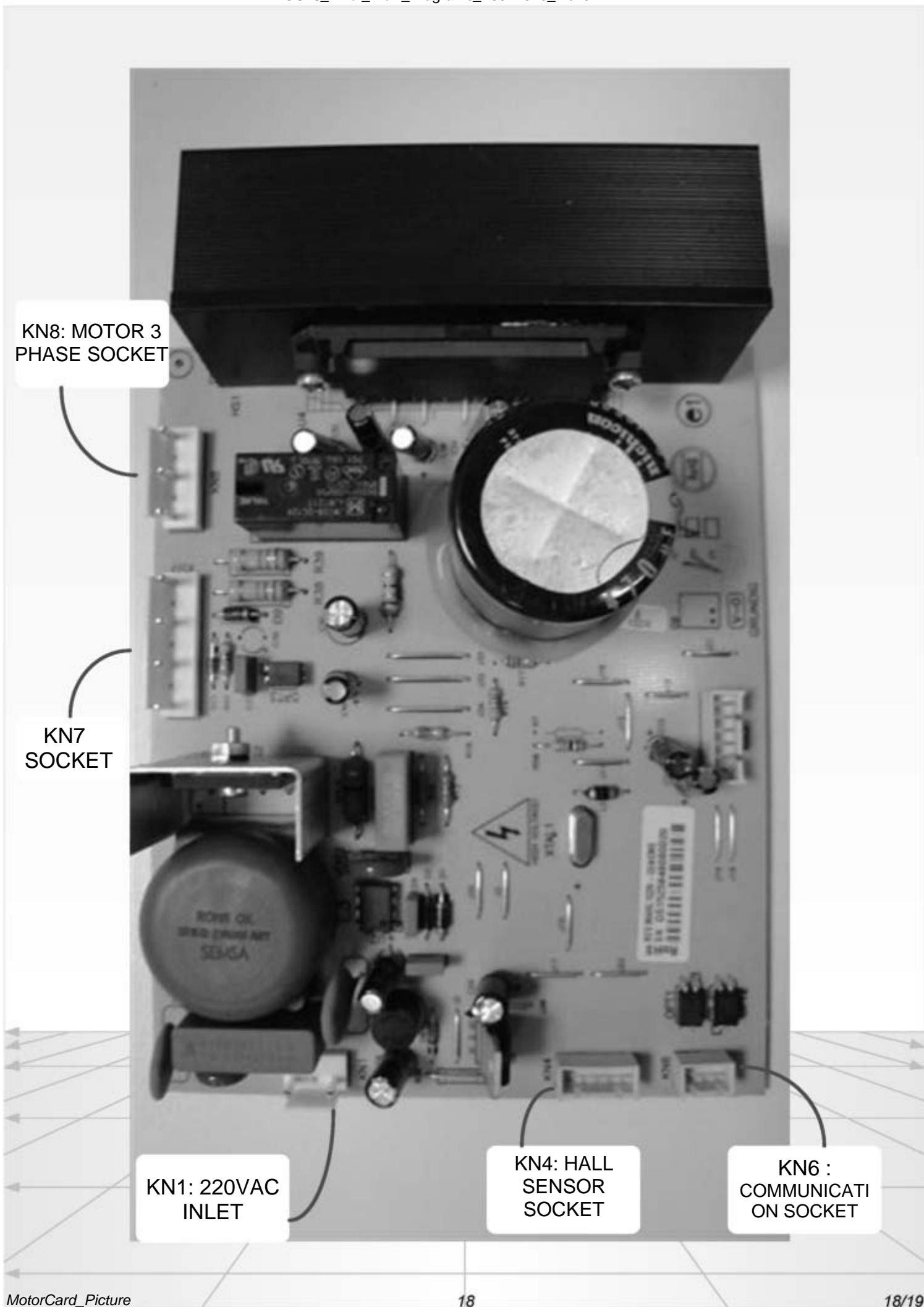
KN1:
COMMUNICA-
TION SOCKET

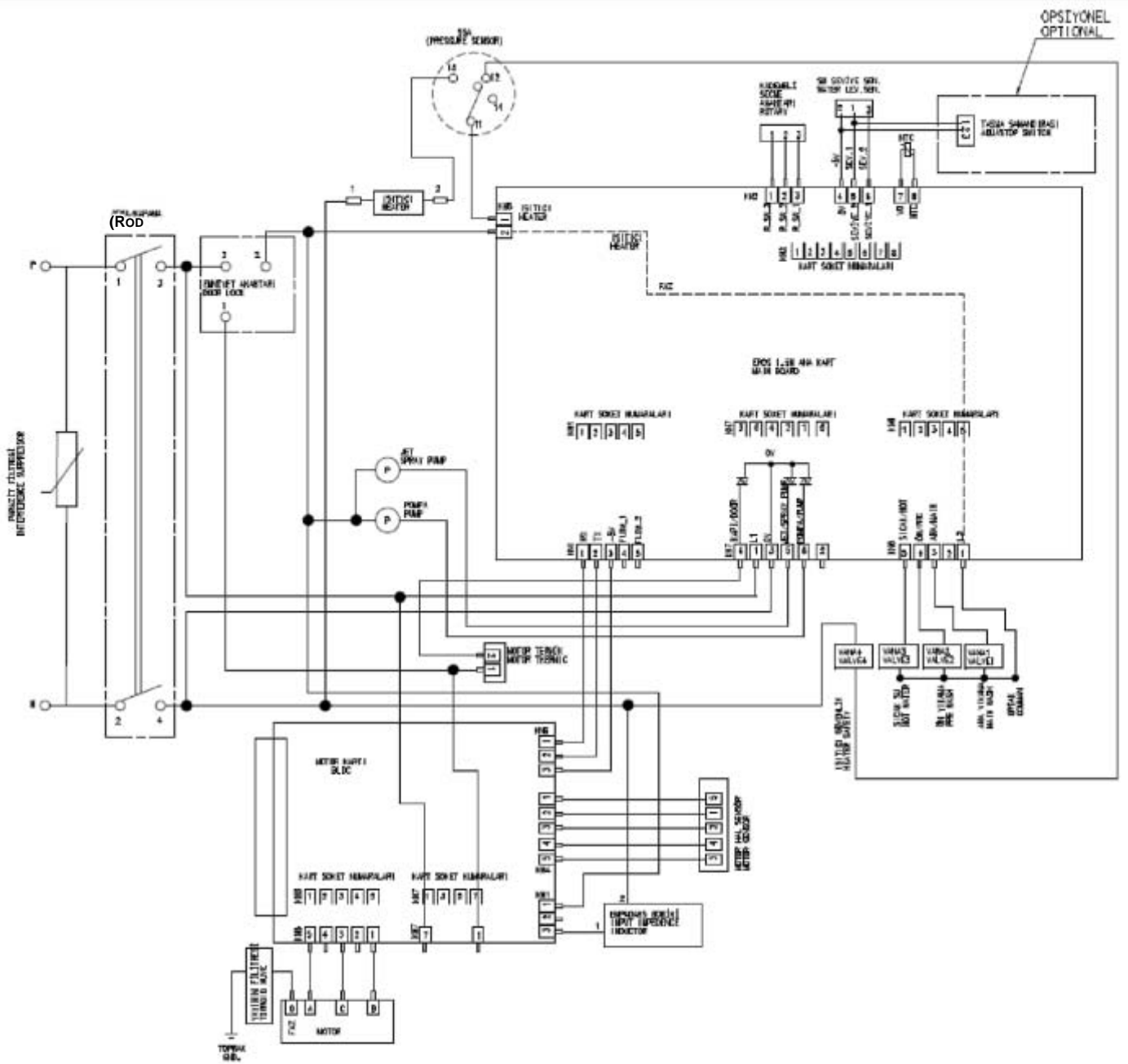
KN7: Discharge
Pump, Jet
system, Door
Lock

KN6: VALVE
SOCKET

KN2: Water
level, NTC,
Program
selection
switch







COMPONENTS

Mechanical Parts

All tubs are made of a highly resistant special plastic material that drops the noise volume and that has not any corrosion problem. The tub door used in Large series machines is also plastic and it is permanently fixed to the back of the drum by means of vibration welding. There is one counterweight at the upper and lower parts of the tub. Motors are fixed by connecting them with two bolts on Large series. There are transportation safety bolts on the back side of the drum. The tub assembly is suspended from the body from its sides by means of two springs and it is connected on to the lower surface of the body by means of two friction horizontal suspensions. The tub is made of stainless steel.

Suspension System

The tub is attached on to the body by means of 2 springs. Moreover, the tub is fixed to the body from its lower part by means of 2 friction suspensions. The springs and the suspensions prevent moving and noisily operating of the machine by transferring the vibrations that are created in the tub to the body. Suspensions are connected to the tub by means of plastic pins instead of bolts.

Electronic Control and Display Card

With the aid of the control and view card designed as single-face and produced by Arçelik, washing programs written on the microprocessor, washing and spinning motor profiles, protection algorithms and components (motor, heater, pump, valves, door safety lock, ntc, water level selection key, spin/temperature potentiometer) are controlled.

While on the front face of the card are the feeding circuit (smps), motor and other component control circuits - triac and relays - and component connection terminals, there are the microprocessor, function and time delay buttons and leds as well as the program follow up leds on its back surface.

The required washing program is run in accordance with the program selection key (rotary switch) connected on to the card, spin/temperature adjustment potentiometer, and the data read on auxiliary function and time delay switches. Auxilliary functions, spin speed/temperature and delayed time options and functions can be selected via this card.

Door Safety Lock

A PTC door safety lock is used. When any washing program is started after the door is closed, the PTC disk heats up to lock the door and prevent its opening while the program is running. The PTC cools down and the door is unlocked within 70 seconds after the program comes to an end. Currents of all components pass through the door safety lock. In case it is defective, the machine does not operate.

Nominal Operating Voltage	250V 50-60Hz
Operating Current	10-50 mA
PTC Resistance	Min. ≥ 50 ohm
Time of Contact Lock	≤ 8 sec
Time of Contact Unlock	35...70sec

Motor:

Brushless motor is used. The motor is composed of stator and rotor. The stator includes windings, whereas the rotor has permanent magnets. The stator windings are energized via an inverter according to the rotor placement/angle. There is a separate electronic card for the motor speed control. The main card and the motor control card communicate with each other. The main card is the master unit; it gives the reference speed to run the motor. However, all other speed control algorithms are accomplished by the motor control card. Hall sensor is used for speed measurement of the motor. There is a thermal protector on the motor winding to prevent damage because of excessive temperature in abnormal cases (continuous operation-locked rotor). Locked rotor case is also protected with software measures.

Emission Filter:

It is a bobbin which consists of a coil and a several number of turns winding and it is used for the regulations regarding the electromagnetic compatibility of the machine. The emission filter is fixed between the earth connection of the motor and the earth connection of the heater. Since the filter is fixed between the earth connections, no current is carried on the emission filter (another word used for emission filter is earth coil) As the name of the component states, it is being used for the emission tests of EMC regulations

Heater

There are two thermofuses on heater inlets as the appliance is an electronically controlled machine.

In the models with one thermofuse, the heater terminal which do not belong to the side without a thermofuse is driven over the water level key. Therefore, colors of plastic insulators around the heater terminals are different from each other (to distinguish the part where a thermofuse is used). For this reason, during heater replacements, which terminal should be mounted to which color side is an issue to be taken into consideration.

When the heater runs as dry, the thermic element heats up excessively and short circuits the heater. A short circuited heater cannot be reused. In order to prevent working of the heater without water "during heating", a heater safety water level has been defined at the microprocessor (P_{heater}). In case the water level which has been defined by the water level sensor drops below the P_{heater} level, the heater is deactivated. As soon as the water temperature that is read by NTC reaches the "selected temperature", the heater is deactivated by the microprocessor.

Nominal Voltage	230V 50-60Hz
Nominal Power	1950 W ($\pm 5\%$)

Valve

There is a double valve in single water-inlet models while there is an additional single valve besides the double valve in machines with hot water inlet. Valves are driven with the triacs on the electronic card; both valves are driven at the softener step by using the collision water direction system to send the water towards the middle compartment of the detergent drawer.

Nominal Voltage	220-240 V 50/60 Hz
Nominal Power	5-8 W
Coil Resistance	3400-4500 ohm
Flow Rate	10 l/min

Discharge Pump

It is a single-phase, double-pole synchronous motor with magnet rotor. It is driven by the triac on the electronic control card in the discharging step. It is protected with a thermal protector against cases of continuous operation and blocked rotor.

Nominal Voltage	220-240 V 50Hz
Resistance	167,5 ohm

Jet Pump

It is a single-phase, double-pole synchronous motor with magnet rotor. It is driven by the triac on the electronic control card in the jet step. It is protected with a thermal protector against cases of continuous operation and blocked rotor.

Nominal Voltage	220-240 V 50Hz
Resistance	167,5 ohm

NTC

This component is used to measure the water temperature in the drum, which reduces the resistance against temperature increase. In some models the temperature is defined on the program while in some the temperature can be selected via "temperature selection button."

When the water temperature reaches the set temperature, the heater is deactivated by means of the heater relay on the card.

Resistance (25 °C)	4773 ohm (±4.2%, Siemens)-4837 ohm (±3.2, Elth)
Operating Temperature	-10°C...+100°C
Thermal time constant	18 ±2 sec

Water Level Sensor

An analogue water level sensor fed by 5V voltage is being employed. This sensor allows instantaneous determination of the water level by means of the frequency values it creates against the water pressure formed. There are frequency values corresponding to all pressure values. Infinite number of levels can be defined with the analogue water level sensor. The water level varies according to the designed program's washing criteria subject to the selected program, temperature and auxiliary function.

DISASSEMBLY PROCESSES

1- PROGRAM SELECTION KEY

- Button tabs are pushed inwards from behind the panel to take out the button from its housing.



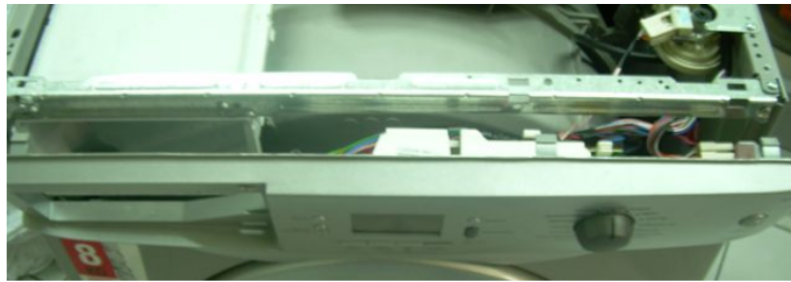
2- DRAWER PANEL

- The Drawer is pulled forward out of the Detergent Box.
- The Drawer is taken out by pressing on the area pointed out by an arrow on the Siphon inside the Drawer.
- The Drawer is turned upside down and released from Drawer Panel tabs.



3- PANEL

- The Drawer is taken out.
- 1 pt screw connecting the detergent box with the panel is removed. The one tab that connects the panel on to the reinforcement sheet are taken out to release the panel from the reinforcement sheet.



1. The cable is taken out off the cable holder on the view assembly.



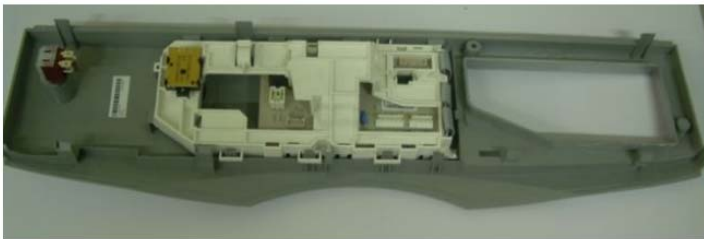
2. It is taken out from the reinforcement sheet by pressing the tabs of the view assembly.



3. The sockets in the drawing are taken out by pressing the tabs.



4. The card assembly is taken out off the view assembly by pressing the tabs on the card holder.



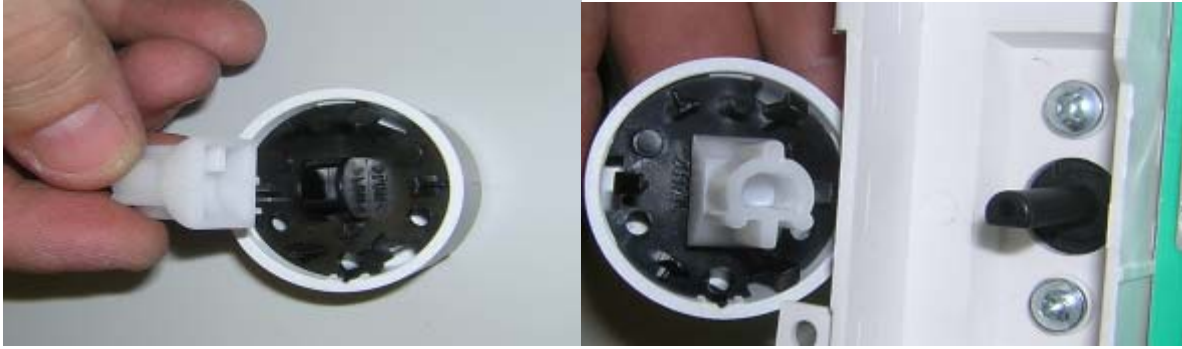
5. Before the new mainboard assembly is attached to the view assembly, the program button is switched to upper position, that is, to COTTONS Program mode.



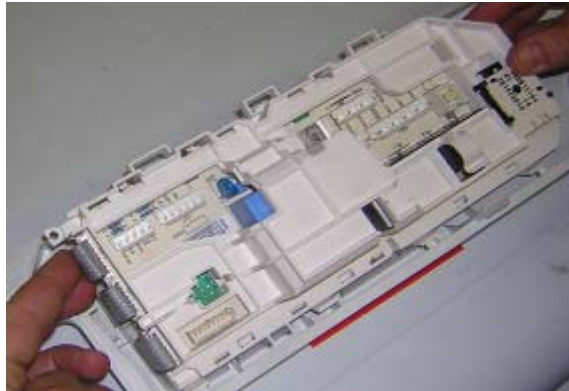
6. In this case, the program button shall be as in the drawing.



7. Position of the white adaptor attached to the potentiometer shall be as shown in the drawing and it will be seated on to the program button adaptor in this manner.



8. Mainboard assembly is seated on the view assembly as shown in the figure (that all the tabs are seated on their places must be ensured).



4- WATER LEVEL SENSOR

- The water level sensor is released from the side wall to which it is connected, by removing 1 self-tapping screw.
- Water level hose and cables are taken out.



5- PUMP

- Left over water in the machine is drained.
- Kick plate is taken out.
- Front Wall is removed.
- Pump Cable ends are taken out.
- Drum Filter hose is taken out from the Pump.
- Pump Gasket Connection and Drain Hose are taken out from the Pump.
- 2 screws that attach the Pump on to the Body are removed.
- Pump is turned to release it from the Body.



MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION****3. YÖNTEM / METHOD:****3.1. ÜRÜN TANIMI**

3.1.1. İmalatçı Firma		: Arçelik A.Ş. Çayırova / İSTANBUL
3.1.2. Model		: MLCD BLDC LARGE 1400 d/d
3.1.3. VDE tipleri		: 91814 HN (Sıcak&Soğuk su) 91814 CN (Soğuk su)
3.1.4. Kuru Çamaşır Kapasitesi	(Kg)	: 8
3.1.5. Program Sayısı	(Adet)	: 16 Program

3.2. DIŞ BOYUTLAR

3.2.1. Yükseklik	(mm)	: 840
3.2.2. Genişlik	(mm)	: 600
3.2.3. Derinlik	(mm)	: 600
3.2.4. Su Giriş Hortumu Boyu	(mm)	: 1400
3.2.5. Su Boşaltma Boyu	(mm)	: 1500

3.3. AMBALAJ

3.3.1. Malzeme		
3.3.1.1. Dış Ambalaj		: PE Torba (Shrink-Pack)
3.3.1.2. Takviye		: Polistren Köpük
3.3.2. Boyutlar		
3.3.2.1. Yükseklik	(mm)	: 880
3.3.2.2. Genişlik	(mm)	: 650
3.3.2.3. Derinlik	(mm)	: 660

3.4. AĞIRLIK

3.4.1. Ambalajlı	(Kg)	: 76
3.4.2. Ambalajsız	(Kg)	: 75

3.5. GENEL TEKNİK DEĞERLER

3.5.1. Gerilim/Frekans	(V/Hz)	: 220-240 / 50
3.5.2. Toplam Çektiği Güç	(W)	: 2000-2300
3.5.3. Akım	(A)	: 10
3.5.4. Sigorta Akımı	(A)	: 16

MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION****3.6. ŞEBEKE KABLOSU**

3.6.1. Tip	:	3*1,5 mm ² kesitli, bakır iletkenli
3.6.2. İzolasyon	:	TS 9760 / TS9758
3.6.3. Fiş	:	Topraklı, PVC enjeksiyon
3.6.4. Boy (mm)	:	1400 / 1700

3.7. MOTOR

3.7.1. Tip	:	3 fazlı, Fırçasız Doğru Akım Motoru
3.7.2. Çekilen Güç* (Yıkama/Sıkma) (W)	:	175 / 650
3.7.3. Hız* (Yıkama/Sıkma) (dev/dak)	:	650 / 16000
3.7.4. İzolasyon	:	F sınıfı
3.7.5. Yol Verme	:	Elektronik hız kontrolü

*Devire göre değişir.

3.8. POMPA

3.8.1. Güç (W)	:	30
3.8.2. Debi (l/dak)	:	15
3.8.3. Basma Yüksekliği (m)	:	1
3.8.4. Rotor Hızı (rpm)	:	3000
3.8.5. Motor Tipi	:	Senkron

3.9. ISITICI (ÇİFT TERMİKLİ) (W) : 230V – 1950 W (2 T/F)

3.10. SU GİRİŞİ : Soğuk/Sıcak ve Soğuk

3.11. GÖVDE

3.11.1. Malzeme	:	DKP Saç
3.11.2. Son İşlem	:	Toz boya

3.12. TAMBUR

3.12.1. Malzeme	:	Paslanmaz sac
3.12.2. Hacim (lt)	:	64
3.12.3. Yıkama Devri (dev/dak)	:	35 / 52 (23-Elde Yıkama)
3.12.4. Sıkma Devri (dev/dak)	:	Max. 1400
3.12.5. Ön Kapak Delik Çapı (mm)	:	340

MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION****3.13. KAZAN**

3.13.1. Malzeme : P4C %30 CAM ELYAF KATKILI POLİPROPİLEN

3.14. SÜSPANSİYON SİSTEMİ

3.14.1. Yay (Adet) : 2

3.14.2. Sürtünmeli Amortisör (Adet) : 2

3.14.3. Denge Ağırlığı (Adet) : 2

3.14.3.1. Malzeme : Yüksek yoğunluklu beton

3.14.3.2. Ağırlık (Üst-Alt) (Kg) : 20,5

3.15. KONTROL ELEMANLARI

3.15.1. Elektronik Ana Kart : 220/240 V, 50/60 Hz.

3.15.2. Program Seçim Anahtarı (16 Kademeli) : 5V±%1

3.15.3. Selonoid Valf Çalışma Basıncı : 0.2-10 Bar

3.15.4. Su Seviye Sensörü : Frekans çıkışlı sensör

3.15.4.1. Ayar Kademeleri (Pa) : Seviye I : 25.50±0.2 kHz (0 mmH2O)
Seviye II : 70±15 mmH2O (24.80 kHz)
Seviye III : 90±7.5 mmH2O (24.50 kHz)
Seviye IV : 125±6 mmH2O (24.00 kHz)
Seviye V : 150±8 mmH2O (23.65 kHz)
Seviye VI : 270±30 mmH2O (22.05 kHz)

3.15.5. Yardımcı Fonksiyon Düğmesi (Adet) : Maks. 4

3.15.5.1. Ön Yıkama

3.15.5.2. Hızlı Yıkama

3.15.5.3 İlave Su

3.15.5.4 Kırışık Azaltma

Sıkma Kademeleri Seçim Düğmesi

Large 1400: Sıkma yok / Suda Bırakma / 400 / 600 / 800 / 1000 / 1200 / 1400 d/dak

Bu sıralama modellere göre değişir.

Durulama Sonu suda bırakma fonksiyonu devir seçenekleri arasındadır.

Sıcaklık Seçim Düğmesi

Sıcaklık değerleri: 90 / 80 / 70 / 60 / 50 / 40 / 30 / Soğuk

3.YÖNTEM / METHOD :

MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION****3.1. PRODUCT DEFINITION**

3.1.1. Manufacturer		: Arçelik A.Ş. Çayırova / İSTANBUL-TURKEY
3.1.2. Model		: MLCD BLDC LARGE 1400 rpm
3.1.3 VDE type		: 91814 HN (Hot & Cold Valve) 91814 CN (Cold V.)
3.1.4. Capacity	(Kg)	: 8
3.1.5. Washing Programs	(Qty)	: 16 Programs

3.2. DIMENSION

3.2.1. Height	(mm)	: 840
3.2.2. Width	(mm)	: 600
3.2.3. Depth	(mm)	: 600
3.2.4. Inlet Hose Length	(mm)	: 1400
3.2.5. Drain Hose Length	(mm)	: 1500

3.3. PACKAGING

3.3.1. Material		
3.3.1.1. Packaging type		: Shrink-Pack
3.3.2. Dimensions		
3.3.2.1. Height	(mm)	: 880
3.3.2.2. Width	(mm)	: 650
3.3.2.3. Depth	(mm)	: 660

3.4. WEIGHT

3.4.1. Packed	(Kg)	: 76
3.4.2. Unpacked	(Kg)	: 75

3.5. TECHNICAL SPECIFICATIONS

3.5.1. Voltage Supply	(V/Hz)	: 220-240/50
3.5.2. Power	(W)	: 2000-2300
3.5.3. Current	(A)	: 10
3.5.4. Fuse Current	(A)	: 16

3.6. POWER SUPPLY CORD

3.6.1. Type		: 3*1,5 mm ² copper conductor
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MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION**

3.6.2. Insulation		: TS 9760 / TS9758
3.6.3. Plug		: Earthed, PVC injection
3.6.4. Length	(mm)	: 1400 / 1700

3.7. MOTOR

3.7.1. Type		: Three phase, Brushless DC motor
3.7.2. Power* (Wash / Spin)	(W)	: 175 / 650
3.7.3. Speed* (Wash / Spin)	(rpm)	: 650 / 16000
3.7.4 Insulation		: F class
3.7.5 Starting method		: Electronic speed control

* These valuse may vary according to speed.

3.8. PUMP

3.8.1.Power	(W)	: 30
3.8.2. Flow rate	(l/min)	: 15
3.8.3. Head	(m)	: 1
3.8.4. Rotor Speed	(rpm)	: 3000
3.8.5 Motor Type		: Synchronous

3.9. HEATER (Double thermofuse)	(W)	: at 230V – 1950 W (2 T/F)
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3.10. WATER INLET		: Cold / Hot and Cold
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3.11. CABINET

3.11.1. Material		: Sheet steel
3.11.2. Finish		: Powder coating

3.12. DRUM

3.12.1. Material		: Stainless steel
3.12.2. Volume	(lt)	: 64
3.12.3. Wash Speed	(rpm)	: 35 / 52 (23-Handwash)
3.12.4. Spin Speed	(rpm)	: Max. 1400
3.12.5. Front Door Opening Diameter	(mm)	: 340

3.13. TUB

MLCD BLDC LARGE (XLARGE KAPAK) 1400 d/d ARÇELİK ÇAMAŞIR MAKİNESİ ÜRÜN ÖZELLİKLERİ**WASHING MACHINE PRODUCT SPECIFICATION**

3.13.1. Material :P4C %30 GLASS FIBER REINFORCED POLYPROPYLENE

3.14. SUSPENSION SISTEM

3.14.1. Suspension Springs (Qty) : 2
3.14.2. Friction Damper (Qty) : 2
3.14.3. Counter weight (Qty) : 2
3.14.3.1. Material : High density concrete
3.14.3.2. Weight (Kg) : 20,5

3.15. CONTROL FACILITIES

3.15.1. Electronic Main Board : 220/240 V, 50 / 60 Hz
3.15.2. Program Selector (with 16 Positions) : 5V±%1
3.15.3. Solenoid Valve Pressure Range : 0.2 – 10 Bar
3.15.4. Pressure Sensor : Frequency output sensor
3.15.4.1. Calibration Points : Level I : 25.50±0.2 kHz (0 mmH2O)
Level II : 70±15 mmH2O (24.80 kHz)
Level III : 90±7.5 mmH2O (24.50 kHz)
Level IV : 125±6 mmH2O (24.00 kHz)
Level V : 150±8 mmH2O (23.65 kHz)
Level VI : 270±30 mmH2O (22.05 kHz)

3.15.5. Function Buttons (Qty) : Max. 4

3.15.5.1. Prewash
3.15.5.2. Rapid Wash
3.15.5.3. Plus Water
3.15.5.4. Anti-Crease

Spin Speed selection:

Large 1400: No spin / Rinse Hold / 400 / 600 / 800 / 1000 / 1200 / 1400 rpm :

Rinse Hold Option is placed with the spin speeds.

This order may vary for different products

Temperature Selection Button:

Temperature Values : 90 / 80 / 70 / 60 / 50 / 40 / 30 / Cold

4. EKLER / APPENDIX:**5. KAYNAKÇA / REFERENCES:**