

Circuit Configuration

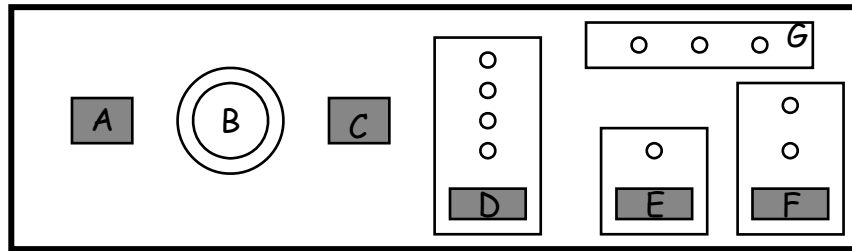
Fagor, Edesa, Aspes Washing Machines

Fault Modes

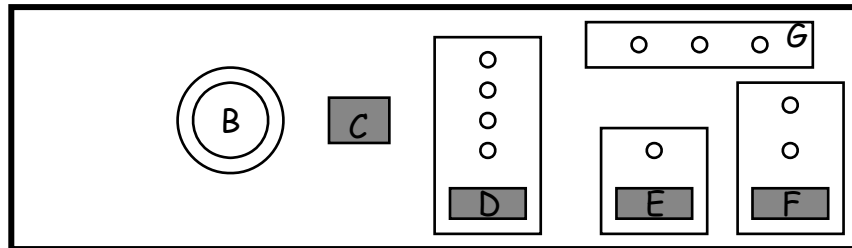
Test Programmes



Circuit Configuration for 5 / 6 / 7 kg Washing Machines with LEDs Version V1



Control Panel Variants



500	600	700	800	900	1000	1100	1200	1300	1400	1600
400	500	500	600	600	700	700	700	700	1000	1000
300	400	400	400	400	400	400	400	400	600	600
0	0	0	0	0	0	0	0	0	0	0

Press Button E	Cold Water	Hot Water
	○	●
RH (Time delay)		
Press Button F	Time delay	No time delay
	●	○
	●	●

1. Turn the programme selector dial (B) to 0 or the On/Off switch (A) to Off (see control panel model)
2. Press and hold down the Start/Stop button (C)
3. Turn the programme selector (B) to the programme:

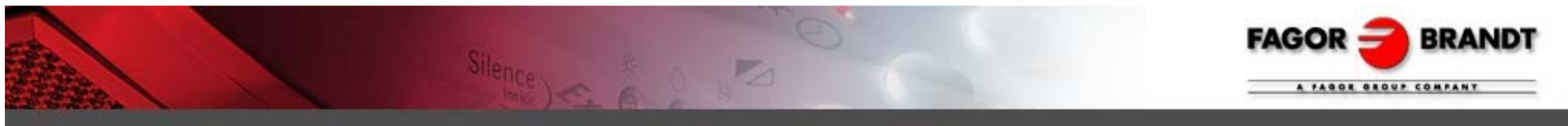
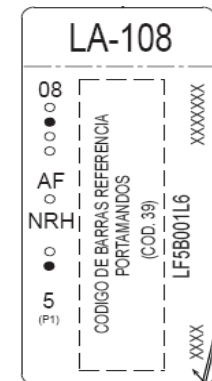
- Programming dial position
- LEDs (G) light up for verification

5 kg	6 kg	7 / 8 kg
P1	P2	P3
● ○ ○	○ ● ○	○ ○ ●

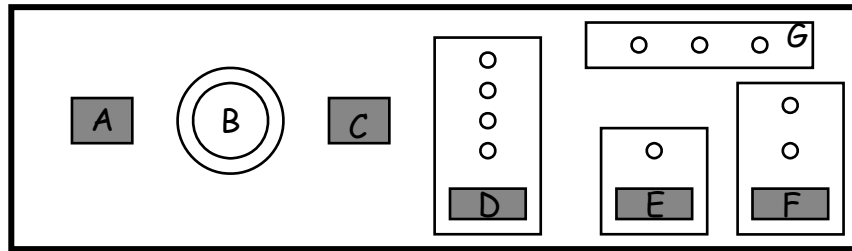
4. Without releasing button (C), press the r.p.m. button (D) until the Wash, Rinse and End LEDs (G) light up. Then release buttons C and D.
5. Press the Spin-dry button (D). The circuit configuration LEDs light up (they should coincide with the sticker on the detergent compartment).
6. To change the configurations for:
 R.p.m.: press the spin-dry button (D) until the LEDs coincide with the sticker (H) (see speed configuration table)
 AF: press button (E). The top LED should be off and the hot water LED on.
 RH: press button (F) until the time delay/no time delay LEDs light up.

7. To validate the configuration, press the Start/Stop button (C) until the 0 r.p.m, Cold water and Time Delay LEDs start to flash. The Wash LED then lights up and the circuit runs the T.A.S. programme.

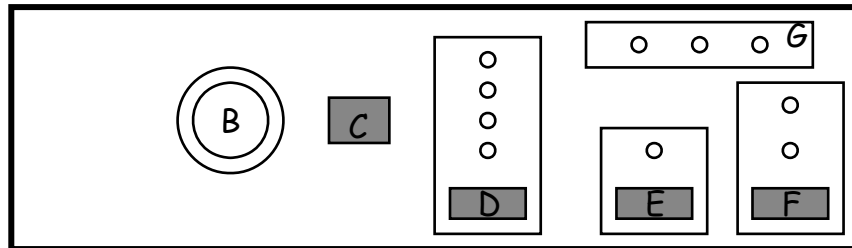
Configuration sticker (example) located on detergent compartment



Circuit Configuration for 7 / 8 kg Washing Machines with LEDs Version V1



Control panel options



500	600	700	800	900	1000	1100	1200	1300	1400	1600
400	500	500	600	600	700	700	700	700	1000	1000
300	400	400	400	400	400	400	400	400	600	600
0	0	0	0	0	0	0	0	0	0	0

Press Button E	Cold water	Hot water
	○	●
RH (Time delay)		
Press Button F	Time delay	No time delay
	●	○
	●	●

1. Turn the programme selector (B) to 0 or the On/Off switch (A) to Off (see control panel model)
2. Press and hold down the Start/Stop button (C)
3. Turn the programme selector dial (B) to the programme:

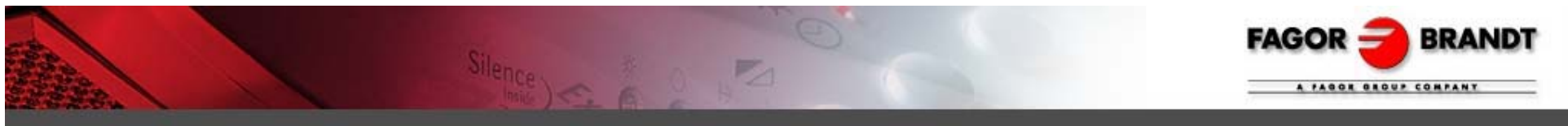
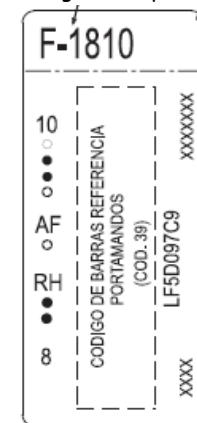
- Programming dial position
- LEDs (G) light up for verification

PROGRAMME No.1 EDESA 7 kg	PROGRAMME No. 2 EDESA 8 kg	PROGRAMME No.1 FAGOR / ASPES 7 kg	PROGRAMME No. 2 FAGOR / ASPES 8 kg
● ○ ○	● ○ ●	● ○ ○	● ○ ●

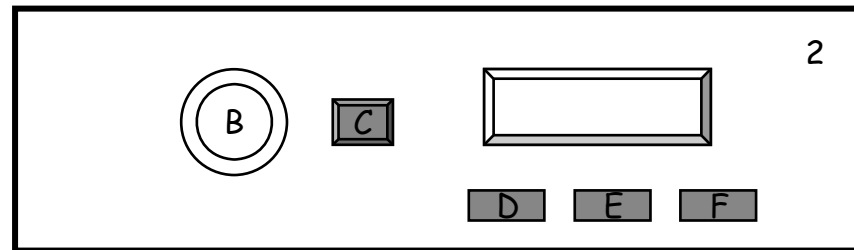
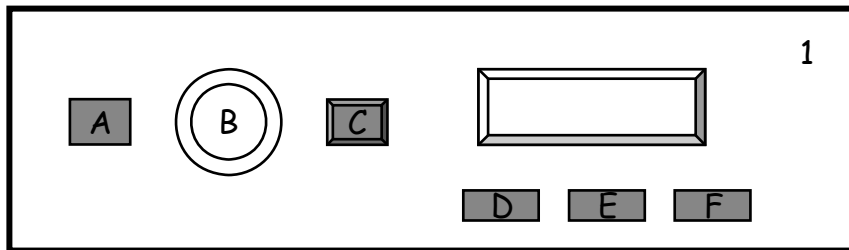
4. Without releasing button (C), press the r.p.m. button (D) until the Wash, Rinse and End LEDs (G) light up. Then release buttons C and D.
5. Press the Spin-dry button (D). The circuit configuration LEDs lights up (they should coincide with the sticker on the detergent compartment).
6. To change the configurations for:
R.p.m.: press the spin-dry button (D) until the LEDs coincide with the sticker (H) (see speed configuration table)
AF: press button (E). The top LED should be off and the Hot water LED on.
RH: press button (F) until the time delay/no time delay LEDs light up.

7. To validate the configuration, press the Start/Stop button (C) until the 0 r.p.m, Cold water and Time Delay LEDs start to flash. The Wash LED then lights up and the circuit runs the T.A.S. programme.

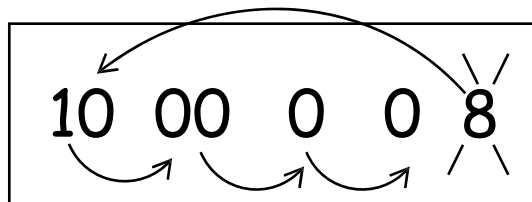
Configuration sticker (example) located on detergent compartment



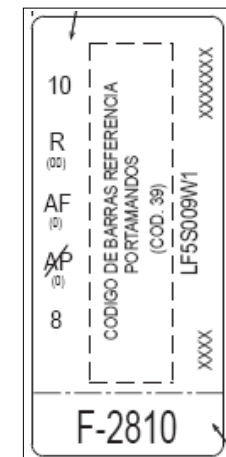
Circuit Configuration for 7 / 8 kg Washing Machines with LCD display Version V3 - V4 - E3



- Control panel 1 - On Switch (A) LCD display off
Control panel 2 - Selector (B) turned to 0 LCD display off
- Control panel 1 - Press the Start/Stop and On/Off switch buttons (A) until the letter A lights up on the LCD display.
Control panel 2 - While holding down the Start/Stop button (C), select a programme (B) and wait for the letter A to light up on the display.
- Press the spin-dry button (D). The configuration digits appears on the display (Example 10 00 0 0 8)
- To change the configuration digits:
 - Time delay: to change the parameter, press button (E)
 - Spin-dry: to change the value of the parameter, press button (D)

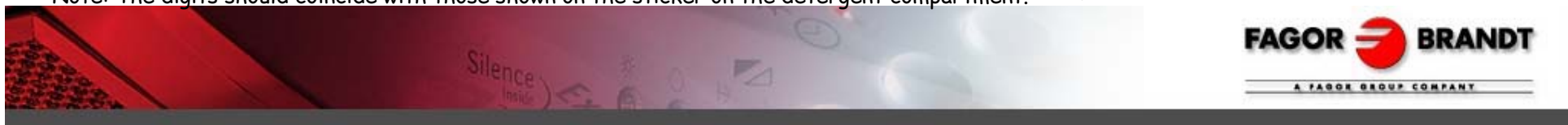


8	kg OF CLOTHES
10	R.P.M.
R	WITH RECIRCULATION (00) WITHOUT RECIRCULATION (0)
AF	COLD WATER (0) HOT WATER (8)
AP AP	MANUAL DOOR OPENING (0) INSTANT OPENING (8)

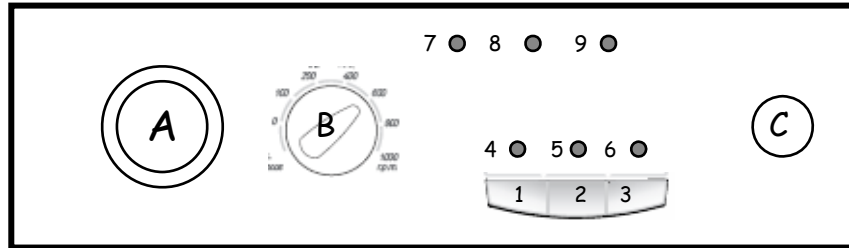


- Validate the configuration by pressing the Start/Stop button (C) until all the configuration digits begin to flash. The digit 1 then appears on the LCD display to indicate the T.A.S. programme has been accessed.

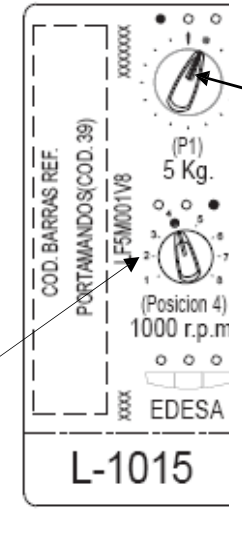
Note: The digits should coincide with those shown on the sticker on the detergent compartment.



Circuit Configuration for 5 / 6 kg Washing Machines Version E1



Sticker attached to detergent compartment

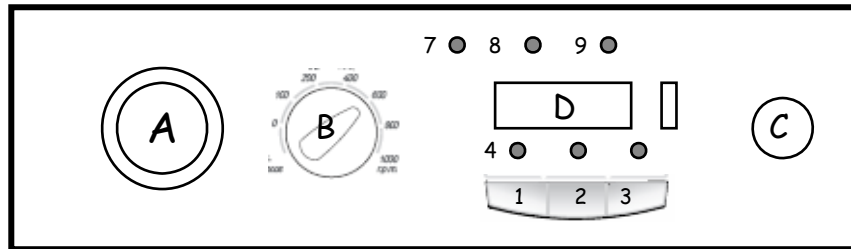


1. Turn the programme selector (A) to 0 (off) and the r.p.m. dial (B) to the position shown on the sticker (position 4 in this case)
2. Press and hold down button (C).
3. Turn the programme selector (A) to:
 - Programme No.1 (for 5 kg washing machines). The End LED lights up.
 - Programme No.2 (for 6 kg washing machines). The End LED lights up.
4. Without releasing button (C), press button No. 1. Release it when LEDs (7- 8 - 9) light up.
5. Press button **No. 1**. LEDs **8 - 9** lights up.
6. Validate the configuration by pressing button (C) and holding it down until LEDs **4 - 5 - 6** light up. LED **No. 7** then lights up and the T.A.S. programme starts.

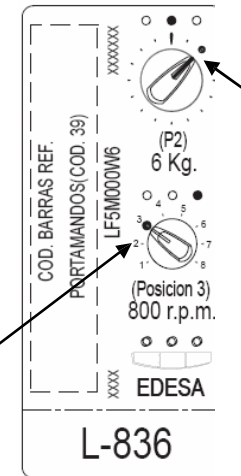
Note: this configuration is valid for circuits with time delay.



Circuit Configuration for 6 kg Washing Machines Version E2

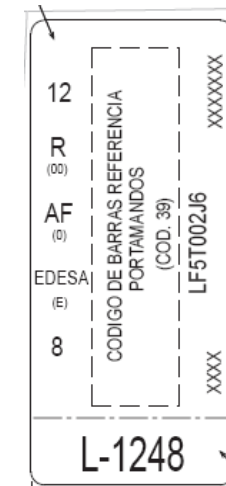


Sticker attached to detergent compartment



1. Turn the programme selector (**A**) to 0 (off) and the r.p.m. dial (**B**) to the position shown on the sticker (position 3 in this case)
2. Press and hold down button (**C**).
3. While holding down button (**C**), turn the programme selector (**A**) to Programme No. 2 (for 6 kg washing machines). LED No. 9 lights up.
4. Without releasing button (**C**), press button No. 1. Release buttons (**C**) and 1 when LEDs (**7- 8 - 9**) light up. The letter (**A**) appears on the display (**D**).
5. Press button **No. 1**. LEDs **8 - 9** begin to flash and **E00** appears on the display (**D**). (Do not validate option **U00** as the programmes are different).
6. Validate the configuration by pressing button (**C**) and holding it down until LEDs **4 - 5 - 6** light up. LED **No. 7** then comes on. The configuration is now complete. The digit 1 appears on the display (**D**) and the T.A.S. programme starts.

Edesa 8 kg Washing machines (version E3)

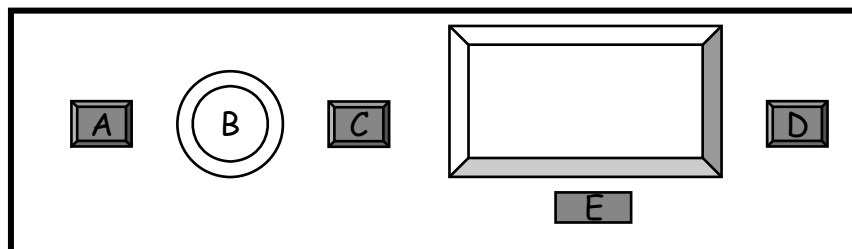


1. Turn the programme selector to 0 (Off).
2. Press and hold down the Start/Pause button.
3. Turn the selector to Programme No.2 and press the Spin-dry button until the letter **A** appears on the LCD display. Then release the Start/Pause and Spin-dry buttons.
4. Press the spin-dry button. The correct card configuration appears on the display
(Example) **12 00 0 E 8**
7. To change the configuration digits, press the following buttons:
 Time delay: to change the parameter
 Spin-dry: to change the value of the parameter
8. Validate the configuration by pressing the Start/Pause button until all the configuration digits begin to flash. The digit 1 appears on the display. This means the T.A.S. programme has been accessed.

Note: start the configuration at step No. 4 if the circuit is being changed.



Circuit Configuration for 7 / 8 kg Washing Machines with LCD display Versions V5 / V6



Buttons E and B are for configuring the following:

- Language
- Sound
- End-of-programme beep
- Clock

Not valid for the Xperta version

If the circuit is not configured (which is the case for the T.A.S. circuit), **A STATUS** appears on the LCD display as soon as it is connected (or the Light soil LED lights up on the Xperta version).

Press the programme selector (**B**) once. **REP** appears on the LCD display.

Turn the programme selector (**B**) left or right until **SAT** appears on the LCD display.

Do not select ROD under any circumstances.

Press the programme selector (**B**) for OK

The digits **14 00 0 8 8** and the word **CONFIGURATION** appears on the LCD display (or **12 00 0 8 7** on the Xperta version).

The digit for the kg (8) flashes.

Press the programme selector (**B**) for OK (turn the programme selector to change the value)

The next digits that flash are for the r.p.m. (**14**) (be careful if it is an Xperta (12))

Press the programme selector (**B**) for OK (turn the programme selector to change the value)

The next digits that flash are for recirculation (**00**)

Press the programme selector (**B**) for OK (turn the programme selector to change the value)

The next digit that flashes is for the cold water intake (**0**)

Press the programme selector (**B**) for OK (turn the programme selector to change the value)

The next digit that flashes is for instant door opening (**8**) Xperta version (7)

Press the programme selector (**B**) for OK (turn the programme selector to change the value)

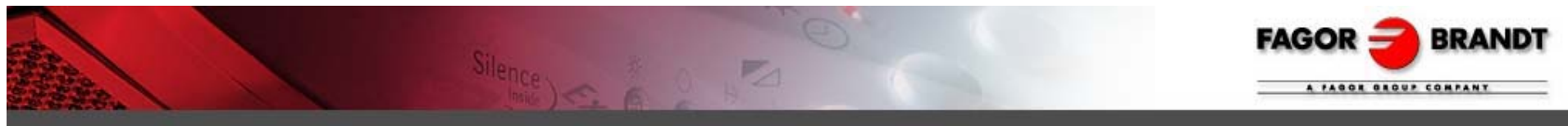
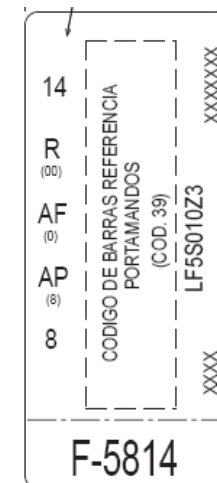
To validate the configuration press button (**C**) and hold it down for a few seconds until the configuration digits begin to flash. You then access the T.A.S. programme.

If the circuit is configured

Press button (**C**) and press and hold down button (**A**) until the LCD display lights up. Press button (**D**) until **A STATUS** appears on the LCD display.

Release buttons (**C**) and (**D**) (Continue as if it were not configured).

Configuration Sticker



SAFETY FEATURE DISPLAY

FAGOR INNOVATION WASHING MACHINES WITH LCD DISPLAY and LEDs

	E X T R A R.	I N T E N S	T I M E D L	S P I N	S P I N 3	S P I N 2	S P I N 1	N O S P I N	A N T I C R	P R E - W A	W A S H	R I N S E	S T O P	SAFETY FE. FAULT
F01											X	X		FILLING
F02												X	X	DRAIN
C03											X	X	X	IMBALANCE
F04											X		X	DOOR LOCK
F05				X							X	X	X	NTC
F06								X			X	X	X	NOT HEATING
F07		X	X								X	X	X	OVERFLOW
F08									X		X	X	X	MOTOR
F09	X	X									X	X	X	MOTOR REVERSAL
F10														



**SAFETY FEATURE DISPLAY
WITH LCD DISPLAY**

**FAGOR INNOVATION WASHING MACHINES
Circuits V3 - V4 - V5**

LCD	FAULT MODES	
F01	WATER INTAKE FAULT	AFTER 8 MINUTES
F02	DRAINING FAULT	AFTER 6 MINUTES
C03	IMBALANCE FAULT	18 ATTEMPTS
F04	DOOR LOCK FAULT	ON CLOSING DOOR
F05	NTC FAULT	OPEN / SHORTED
F06	HEATING FAULT	5TH IN 15 MINUTES
F07	OVERFLOW / DRAIN PUMP FAULT	OPEN CIRCUIT
F08	MOTOR FAULT (TACHO GENERATOR)	3 ATTEMPTS
F09	MOTOR FAULT: NOT REVERSING	WINDING CUT OUT
F10 - F11 -F12	HOME SYSTEMS FAULT	
F13	FLOW METER FAULT	NOT DETECTING
F14	PRESSURE SENSOR FAULT	NOT DETECTING



T.A.S. Programme Activation Copreci Circuit

On/Off switch OFF

Press and hold down the Start/Pause button

On/Off switch On. Wait until the start/pause LED lights up

Press and hold down the r.p.m. selection button until the extra rinse and short wash or intensive wash LEDs begin to flash, depending on the model.

Release all the buttons simultaneously. The T.A.S. programme is activated.

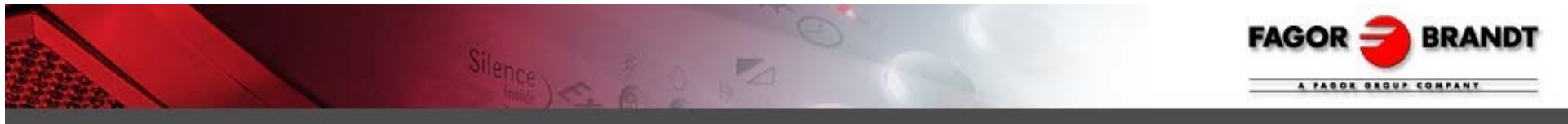
With Display	With LEDs	Selection Mode	Approx. time
S01 + Anti-crease	Anti-crease	Water intake via pre-wash valve + motor movement	13 seconds
S02 + No spin	No Spin-dry	Drain + Spin-dry (ramping)	6 minutes
S03 + Spin1	Spin-dry 1 (low)	Water intake via wash valve to pressure switch level	Pressure switch level
S04 + Spin2	Spin-dry 2	Element heats up to 40°	40°
S05 + Spin3	Spin-dry 3	Water intake via fabric conditioner valve	Pressure switch + 20 sec.
S06 + Spin4	Spin-dry 4	Drain + wash motor movement (reversal)	30 seconds
END		Programme ends and Stop LED lights up	



SAFETY FEATURE DISPLAY

FAGOR INNOVA WASHING MACHINES (Copreci circuit)

	S P I N 4	S P I N 3	S P I N 2	S P I N 1	N O S P I N	A N T I C R	P R E W A S	W A S H	R I N S E	E N D	SAFETY FEATURE FAULT
F01								X	Y		FILLING
F02									X	Y	DRAINING
F03							X	Y			IMBALANCE
F04							X			Y	DOOR LOCK
F05	X						X	X	X	X	NTC
F06		X					X	X	X	X	NOT HEATING
F07			X				X	X	X	X	OVERFLOW
F08				X			X	X	X	X	PROGRAMME SELECTOR
F09					X		X	X	X	X	MOTOR
F10						X	X	X	X	X	MOTOR REVERSAL



SAFETY FEATURE DISPLAY EDESA PRACTICA WASHING MACHINES (Copreci circuit)

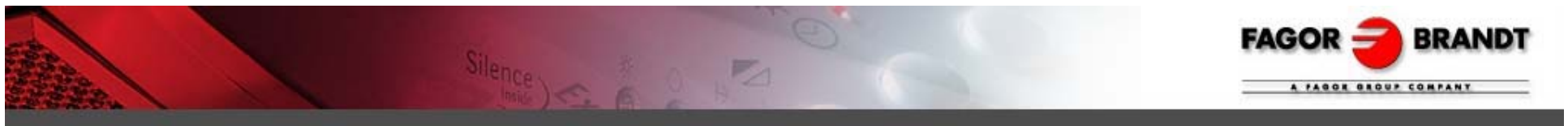
	E X T R A R.	T I M E D L	E A S Y I R.	S P I N 4	S P I N 3	S P I N 2	S P I N 1	N O S P I N	A N T I C R		W A S H	R I N S E	E N D	SAFETY FEATURE FAULT
F01											X	Y		FILLING
F02												X	Y	DRAINING
F03											Y			IMBALANCE
F04													Y	DOOR LOCK
F05											X	X	X	NTC
F06					X						X	X	X	NOT HEATING
F07						X					X	X	X	OVERFLOW
F08							X				X	X	X	PROGRAMME SELECTOR
F09								X			X	X	X	MOTOR
F10		X									X	X	X	MOTOR REVERSAL



SAFETY FEATURE DISPLAY FAGOR INNOVA WASHER/DRYERS

Copreci circuit

	S P I N 4	S P I N 3	S P I N 2	S P I N 1	N O S P I N	A N T I C R	P R E W A S	W A S H	R I N S E	E N D	SAFETY FEATURE FAULT
F01								X	Y		FILLING
F02									X	Y	DRAINING
F03							X	Y			IMBALANCE
F04							X			Y	DOOR LOCK
F05	X							X	X	X	NTC
F06		X						X	X	X	NOT HEATING
F07			X					X	X	X	OVERFLOW
F08				X				X	X	X	PROGRAMME SELECTOR
F09					X			X	X	X	MOTOR
F10						X	X	X	X	X	MOTOR REVERSAL



T.A.S. Programme for Innovation Washing Machines with LCD display and LEDS

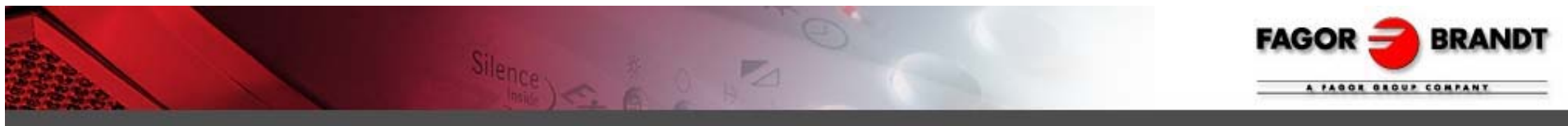
STEP 1	MASTER SWITCH OFF
2	PRESS AND HOLD DOWN THE START/PAUSE BUTTON
3	PRESS THE ON/OFF BUTTON UNTIL THE LCD DISPLAY OR LEDS LIGHT UP
4	PRESS AND HOLD DOWN THE R.P.M. BUTTON UNTIL THE LETTER A APPEARS ON THE LCD DISPLAY PRESS AND HOLD DOWN THE INTENSIVE WASH BUTTON UNTIL THE WASH, RINSE AND END LEDS LIGHT UP
5	RELEASE THE START/PAUSE AND SPIN-DRY BUTTONS SIMULTANEOUSLY (INTENSIVE WASH)
6	PRESS THE SPIN-DRY OR INTENSIVE WASH BUTTON (THE CIRCUIT CONFIGURATION APPEARS)
7	PRESS AND HOLD DOWN THE START/PAUSE BUTTON UNTIL THE DIGITS ON THE LCD DISPLAY BEGIN TO FLASH PRESS AND HOLD DOWN THE START/PAUSE BUTTON UNTIL ALL THE OPTION LEDS BEGIN TO FLASH
8	THE DIGITS OR LEDS SHOWN ON THE CHART BELOW APPEAR ON THE LCD DISPLAY

LCD	LEDS ON	PART CHECKED	TIME
1	WASH	PRE-WASH VALVE IS ACTIVATED	13 SECONDS
2	RINSE	DRAIN AND SPIN-DRY (RAMPING)	6 MINUTES
3	END	WASH VALVE IS ACTIVATED	PRESSURE SWITCH LEVEL
4	ANTI-CREASE	HEATING	40° NTC
5	INTENSIVE OR EXTRA RINSE	THE 2 / 3 VALVES ARE ACTIVATED	3 SECONDS



Brandt Top-loading Washing Machines (with display / LCD display)

STEPS	Fault Modes
D01	Water intake fault (valve, 3750 ohms or cabling)
D02	Drain fault (drain pump 155 ohms)
D03	Heating fault (element 25 ohms)
D04	Triac motor in short circuit (tacho signal not correct, value to be obtained 90 ohms)
D05	NTC fault (12 kilohms at ambient temperature)
D06	Motor fault (reversal) (rotor 1.7-2.3 ohms, stator (1) 1 ohm, stator (2) 1 ohm, Single stator 1.7-2.8 ohms)
D07	Door lock or motor fault (door lock PTC 4.4 kilohms. door closed 0 ohms and door open infinite value)
D09	Programme selector fault
D10	Overflow
D13	Motor or electronic circuit fault
D17	Drum door positioner fault (closure cover in up position 0 ohms, other cover position infinite value)
D20	Water intake distributor fault (6.5 kilohms)
D21-D24	Electronic circuit fault
D28.....	D29..D30..D31..D32 Electrical disturbance fault



Imbalance Fault C03

If imbalance is occurring frequently, check the following:

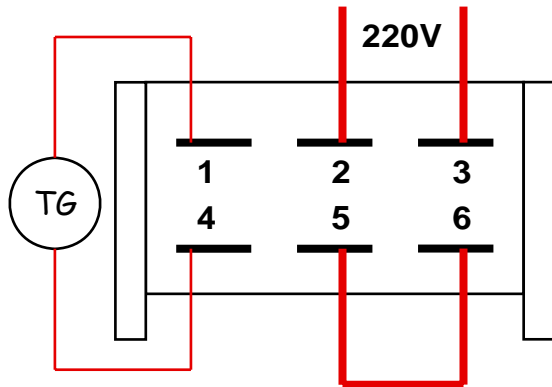
1. - The user should not programme the *easy-iron* option on the standard programmes from 1 to 7
2. - Check the recirculation is working correctly. The water jet at the muffle exit should be directed towards the clothes, not the window. To check the instant recirculation is working correctly, programme the *Pre-wash* or *Rinse* programme.
3. - The belt cannot be tensed. Check it is tensed, and if not, change the belt.
- 4.- Clean the filter.
5. - If the user uses too much detergent, the *extra rinse* light comes on and the imbalance may occur if the load is only slightly imbalanced.

Note: it is very important for the washing machine to be correctly levelled.

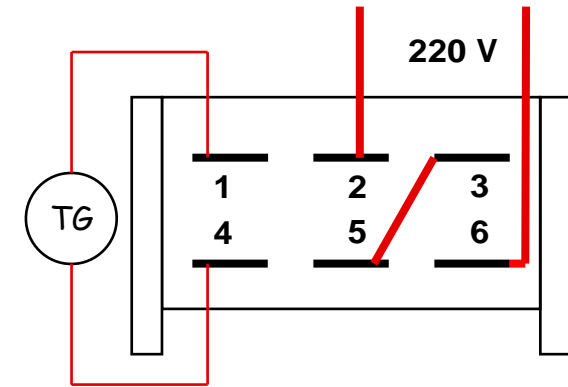


Checking the Washing Machine Motor

Clockwise



Anti-clockwise

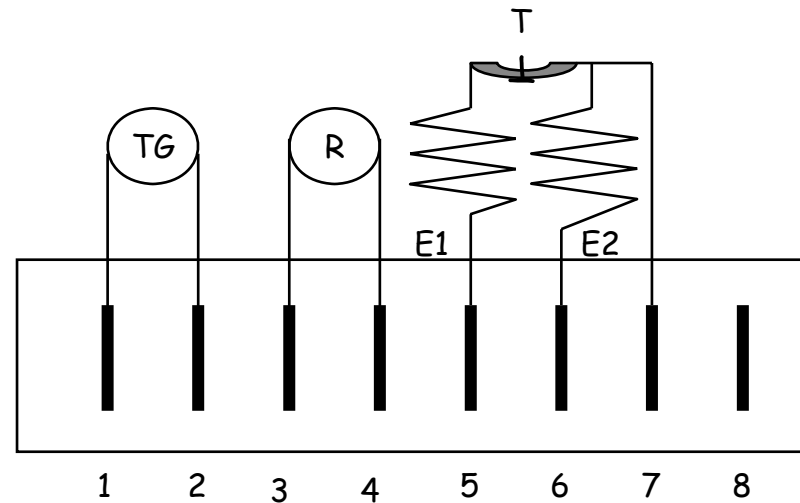
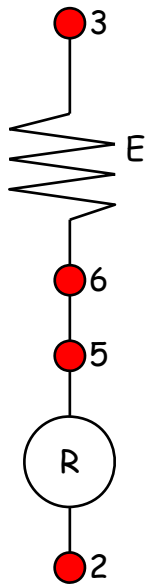


Values :

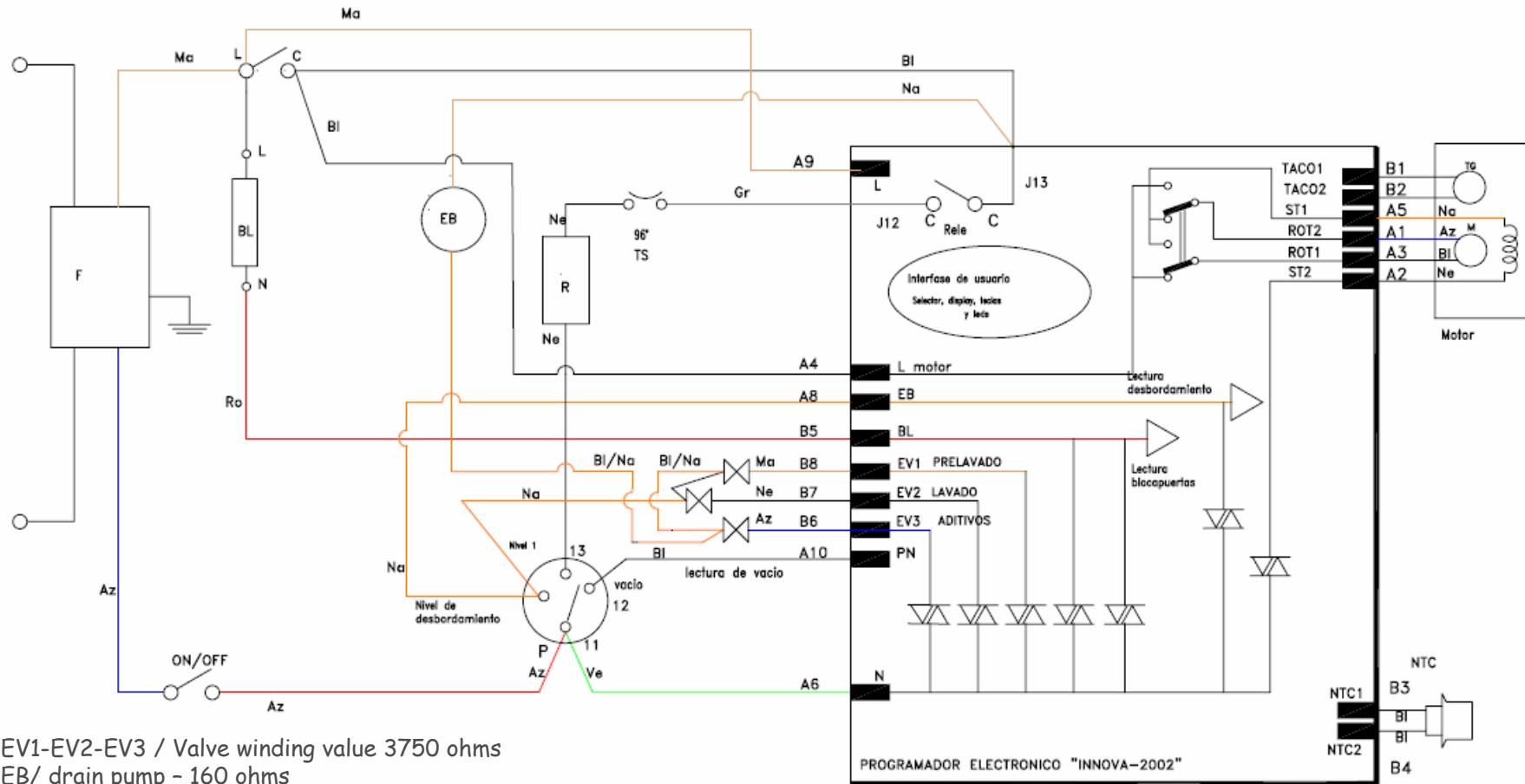
TG - Tacho generator 80 - 90 ohms

E - Stator 1 - 4 ohms

R - Rotor 1 - 4 ohms



Electrical Diagram Copreci circuit



- EV1-EV2-EV3 / Valve winding value 3750 ohms
- EB/ drain pump - 160 ohms
- RC/ recirculation pump - 170 ohms (according to model)
- NTC (B3-B4) 48 kilohms at ambient temperature
- M Motor - Rotor (A1-A3) 1.7 ohms Stator (A5-A2) 1.3 Ohms
- Motor tacho generator (B1 B2) 90-180 ohms (according to model)
- R - Element 25.4 Ohms

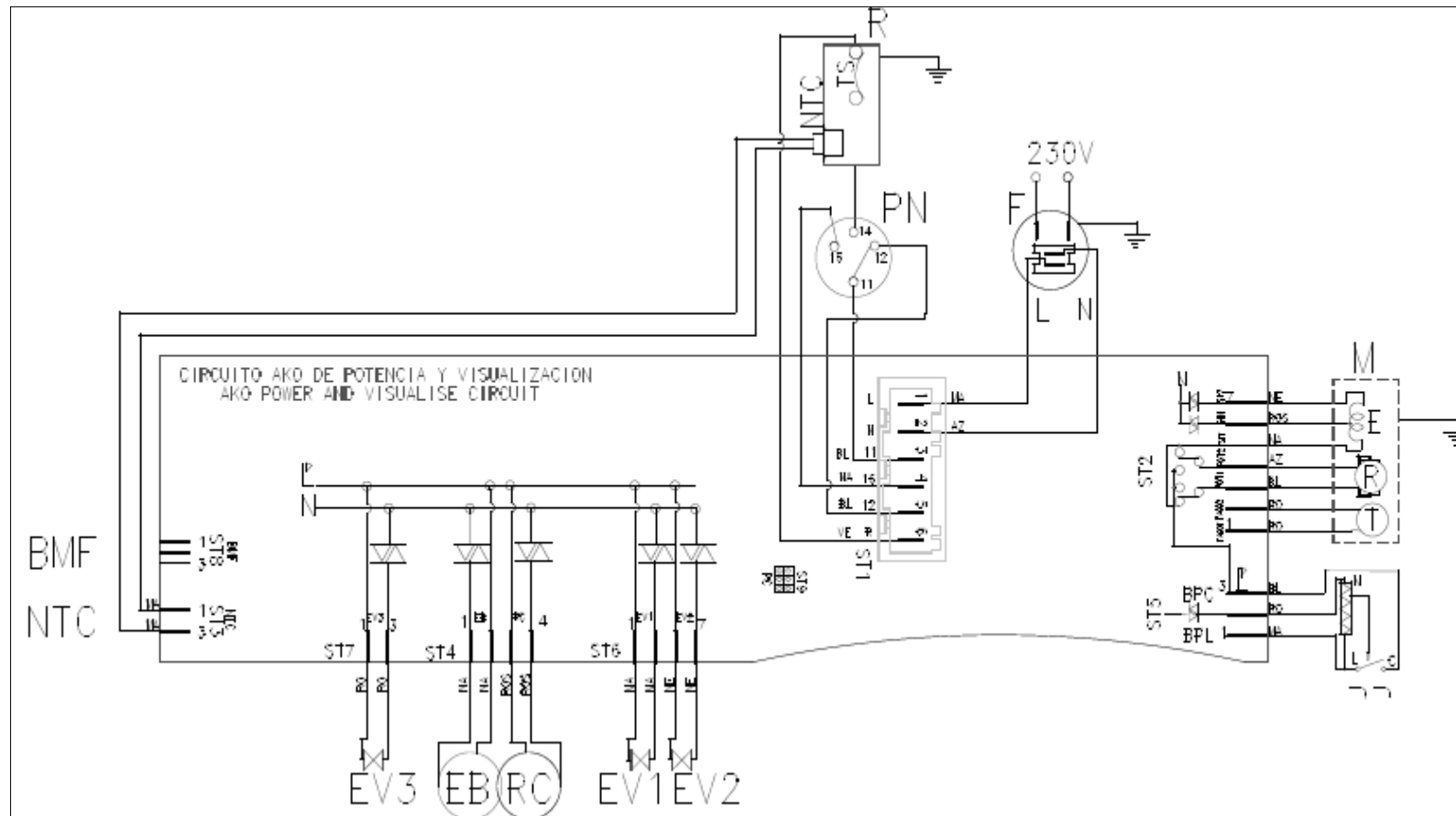


Theoretical Schematic 8 kg Washing Machines

- EV1-EV2-EV3 / Valve winding value 3750 ohms
- EB/ drain pump - 160 ohms
- RC/ recirculation pump - 170 ohms
- NTC - 10 kilohms at ambient temperature
- MOTOR - ROTOR 1.7 ohms STATOR 1.3 Ohms
- ELEMENT 25.4 Ohms

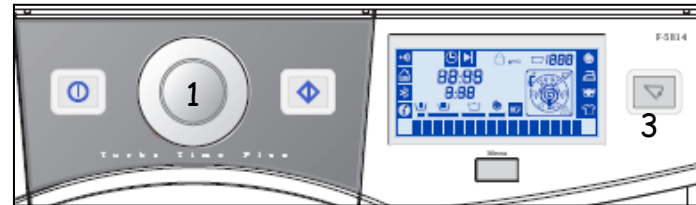
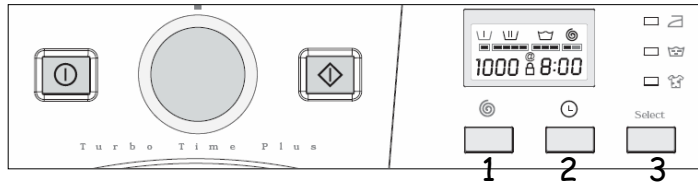
Note: take measurements at connectors leading to card

TACHO GENERATOR 90-180 ohms (according to model)

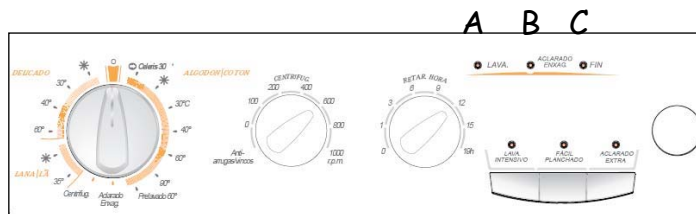


Demo Programme

To activate and deactivate the demo programme, press and hold down the buttons for options 1 and 3 for at least 5 seconds



Repeat / Time Delay Programme



The repeat programme is entered due to an electronic card configuration error.

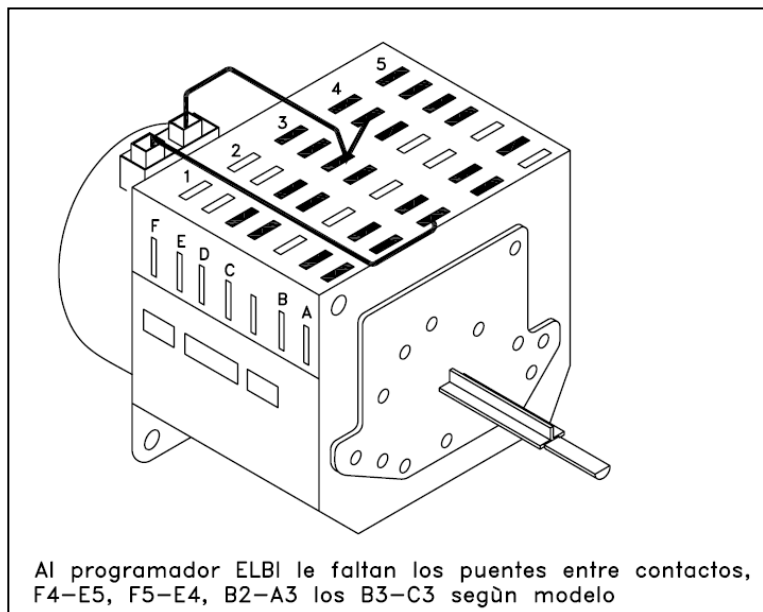
When this fault mode occurs, the wash, rinse and end LEDs light up, alternating at one-second intervals, and the cycle is repeated

To exit the repeat mode:

1. Turn the programme selector dial to OFF
2. Press the start/pause button and turn the programme selector dial to a programme
3. Press and hold down the start/pause button for 5 seconds, then release it



SUSTITUCIÓN DEL PROGRAMADOR "COPRECI" L20F026A2 (L20F026I8) POR EL PROGRAMADOR "ELBI" LA0934900



CONTACTOS			
ELBI	COPRECI	COLOR DEL CABLE	CONECTADO
F3	22	NEGRO (CON FUNDA)	MOTOR
F4	22A	AZUL (CON FUNDA)	E5 PROGRAMADOR
F5	22B	GRIS (SIN FUNDA)	E4 PROGRAMADOR
E3	10	BLANCO (CON FUNDA)	MOTOR
E4	10A	DOBLE GRIS (SIN FUNDA)	BOMBA DESAGUE TERMOSTATO
E5	10B	DOBLE AZUL (CON FUNDA)	MOTOR
D1	24B	DOBLE GRIS/AZUL AMARILLO (CON FUNDA)	MODULO (1) EXCLUSION CENTRIFUGADO
D2	24A	GRIS (SIN FUNDA)	EXCLUSION CENTRIFUGADO
D3	24	DOBLE BLANCO (SIN FUNDA)	PILOTO MARCHA BLOCAPUERTAS (C)
D4	7A	ROJO (CON FUNDA)	BLOCAPUERTAS (N)
D5	7	DOBLE VERDE Y AZUL	AZUL LINEA VERDE/MARRON PRESOSTATO
C1	9	MARRON (CON FUNDA)	MODULO (6)
C2	9A	DOBLE ROJO/NEGRO Y BLANCO NEGRO (CON FUNDA)	MODULO (5) 650/1000 RPM
C3	1		AL CONTACTO B3 PROGRAMAD.
C5	1A		INT. ACLARADO EXTRA
B1	4B	ROJO/BLANCO (CON FUNDA)	ELECTROVALVULA
B2	4A	DOBLE ROSA (CON FUNDA)	MODULO (N)
B3	3-4	BLANCO (CON FUNDA)	PRESOSTATO (12)
B4	3A	NEGRO (CON FUNDA)	FLOT
B5	3B	AZUL (CON FUNDA)	PRESOSTATO (22)
A1	6B	NEGRO (CON FUNDA)	TERMOSTATO REGULABLE
A2	6A	DOBLE BLANCO Y ROJO	ELECTROVALVULA
A3	5-6	ROSA	B2 PROGRAMADOR
A4	5A	DOBLE NEGRO	FLOT/PRESOSTATO 13

Fault modes not included in the diagnosis

When the time delay is selected on Edesa models with LEDs, the wash, rinse and end pilot lights come on progressively.

Fault mode

Activate the pre-wash valve for 10 seconds. The drain pump is accessed.

White cable leading from the circuit to the pressure switch contact 12: no continuity.

