Customer Service
Technical Office
Gias - Italia

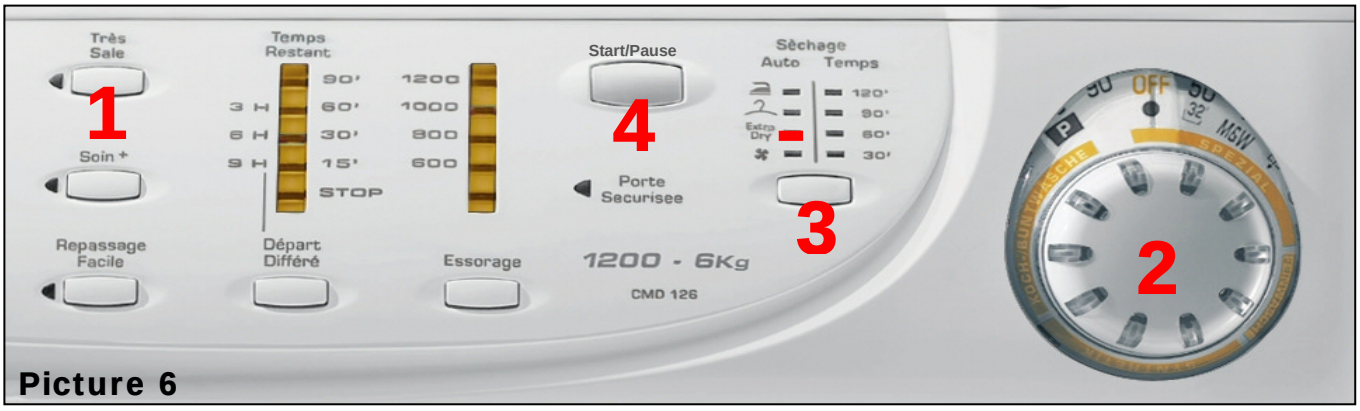
TECHNICAL NOTE N. 807 LB - 09/07/2005

SUBJECT: **NEW ELECTRONICALLY CONTROLLED WASH 'N DRYER: AUTOTEST CHECKING ROUTINE AND ERROR CODES.**

1 AUTO-TEST CHECKING ROUTINE AND ERROR CODES:

The setting of the Auto-test sequence, is different depending on the version of aesthetics, of the Wash 'n Dryer to be tested. At the present moment, two types of Control Panes can be found:

- Control Panel in the "New Aesthetics 2005" version (see Picture 6).
- Control Panel in the "Chronovision" version (see Picture 7).



Picture 6

Picture 7

1 = First Option's Button with LED.
2 = Program's Selector's Knob (for Washing and Drying).
3 = Knob for the adjustment of strength and duration of the Drying Cycle.
4 = Start/Pause Button.

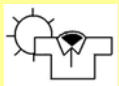
1a) PRELIMINARY OPERATIONS, TO THE AUTO-TEST ROUTINE:

- **Empty the drum of the Wash 'n Dryer.**
- **Connect a Digital Ammeter** (with at least a 20A/AC reading scale), in series to one of the two phases of the Mains wire of the Appliance. We suggest to this purpose, the use of the specifically designed Patch Cord P/N. **91941051**).
- **Uniquely when in presence of a "Chronovision" version**, set the **Temperature's Knob on 90°** and the **Knob for Drying to the 2nd setting in clockwise sense** (in this example, to the "Ready to Hang" setting).

1b) ACTIVATION OF THE AUTO-TEST ROUTINE:

- **Push and hold the 1st Option's Button with LED** (ref. 1 in Pictures 6 and 7).
- **Set the Program's Selector's Knob on the 2nd setting in clockwise sense** (ref. 1 in Pictures 6 and 7). In this example, it goes to the 60° Cotton Program.
- **As soon as the LED of 1st Option's Button is TURNED ON, release the same 1st Option's Button** (ref. 1 in Pictures 6 and 7).

CASE OF "NEW AESTHETICS 2005" CONTROL PANEL (PICTURE 6)

- **ALL LEDS OF TIMES ARE TURNED ON, together with the LED OF MAXIMUM SPEED OF SPIN.**
- **After 1 second and within 5 seconds:**
- **Push Button n. 3 in Pic. 6 and SET: "Extra Dry". The LED is ON:** 
- **Push the 1st OPTION'S BUTTON** (ref. 1 in Picture 6), otherwise **push the START/PAUSE BUTTON** (ref. 4 in Picture 6).
- **It's started the FLASHING of the row of the LEDS OF THE OPTION'S BUTTONS, alternatively to the row of the LEDS OF TIMES and the LED OF THE MAXIMUM SPIN SPEED**. This peculiar displaying, is the confirmation the Auto-test Routine was correctly initialized. From this moment onward, the Auto-test is being carried out automatically.

CASE OF "CHRONOVISION" CONTROL PANEL (PICTURE 7):

- **ALL LEDS OF TIMES and ALL LEDS OF OPTION'S BUTTONS are turned ON together.**
- **After 1 second and within 5 seconds:**
- **Push the 1st OPTION'S BUTTON** (ref. 1 in Picture 7), otherwise **Push the START/PAUSE BUTTON** (ref. 4 in Picture 7).
- **It's started the FLASHING of the row of the LEDS OF THE OPTION'S BUTTONS, alternatively to the row of the LEDS OF TIMES.** This peculiar displaying, is the confirmation the Auto-test Routine was correctly initialized. From this moment onward, the Auto-test is being carried out automatically.

1c) DESCRIPTION OF THE SEQUENCE OF AUTO-TEST:

1. It's carried out a **Water Load to the basic level,** through the **Solenoid Valve for cold water** (and for hot water too, when present). In case it's present, it's feed the recycle pump, too.
2. 1 second **pause.**
3. It's fed for **20 seconds, the Water Heating Element** (multimeter's reading is: ~ 7-8A a 220V/CA).
4. Are simultaneously fed both the **Solenoid Valve for cold water** (and for hot water too, when present) to carry out a **Timed Water Load**, the Recycle Pump (when present) **and the Motor** with the following sequence:
   - **16 seconds** in **anticlockwise** sense.
   - **4 seconds pause**.
   - **12 seconds** in **clockwise** sense.
5. It's fed the **Drain Pump**, until it's obtained the "empty tank" pressostat's condition.
6. It's carried out a **very short Spin Sequence of 15 seconds**, at the half of maximum speed which is available.
7. **8 seconds pause**.

8. Are simultaneously fed the **2 Drying's Heaters, the Fan Motor and the Solenoid Valve for Vapor Condensation** (ammeter's reading: ~ 6.04A). Duration of this phase: ~ **5 seconds**.

9. It's **turned OFF the Lowest Drying Heater** (ammeter's reading: ~ 3.80A). Duration of this phase: ~ **5 seconds**.

10. It's **turned OFF the Highest Drying Heater too**, the only working component being now **the Fan Motor**. Duration of this phase: ~ **5 seconds**.

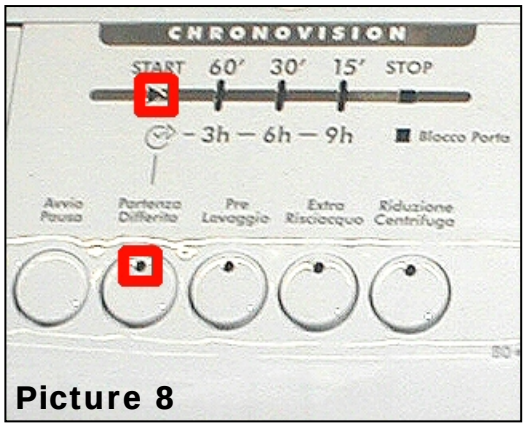
11. It's stopped the alternate flashing of the Option's LEDS and of the LEDS of Residual Time. **End of the Auto-test Checking Routine.**

1d) DESCRIPTION OF THE ERROR CODES:

Each time a serious trouble is encountered, both during the normal working of the appliance than during the carrying out of the Auto-test sequence, an ERROR CODE is generated and memorized inside the Eeprom memory, of the Control Module. The ERROR CODE is also displayed, as follows:

- **"CHRONOVISION" CONTROL PANEL:**

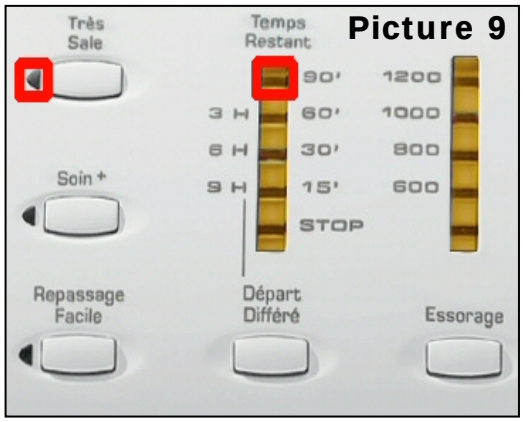
  Through the **simultaneous flashing** of the **START LED** and of the **1st Option's Button LED** (see Picture 8).



Picture 8

- **"NEW AESTHETICS 2005" CONTROL PANEL:**

  Through the **simultaneous flashing** of the **LED of the LONGEST RESIDUAL TIME LED** and of the **LED of the 1st OPTION'S BUTTON** (see Picture 9).



Picture 9

Each flashing takes 1 second of time (1 Hz - 0.5" ON / 0.5" OFF). Total length of each **ERROR CODE displaying phase is 15 seconds**. Therefore, the number of the flashes in the period of time of 15 seconds, identifies the type of ERROR. The displaying is repeated indefinitely, until the moment the Program's Selector's Knob is set to the OFF position.

EXAMPLE: to display the **ERROR 4**, both LEDS LED:

- **Flash together 4 times** (each flash 1 second - 0.5" ON / 0.5" OFF).
- **Stay turned OFF for 11 seconds**.

LIST OF THE PRESENTLY AVAILABLE ERROR CODES:		
NUMBER OF TIMES THE 2 LEDS FLASH	**SECONDS THE 2 LEDS STAY OFF**	**MOST PROBABLE REASON FOR THE ISSUING OF THE ERROR CODE:**
1	14"	Defective Door Lock Device and/or Wiring.
2	13"	Basic Water Level not reached within 5' 30".
3	12"	Drain Phase not ended within 4'.
4	11"	Intervention by the Anti-flood Pressostat.
5	10"	Defective NTC Temperature Reading Probe and/or Wiring.
6	9"	Defective "Core" Board and/or Wiring.
7	8"	Jammed Motor Rotor and/or Jammed Drum.
8	7"	Open Circuited or Short Circuited Tachometric Dynamo and/or Jammed Rotor and/or Wiring.
9	6"	Short Circuited Motor Triac on the "Core" Board. Replace the whole "Core" board.
11	4"	Defective Drying Module and/or Wiring.
12	3"	Missing Dialogue between Boards and/or Wiring.
13	2"	Missing Dialogue between Boards and/or Wiring.