
4. ALIGNMENT AND ADJUSTMENTS

4-1. GENERAL ERROR FUNCTION

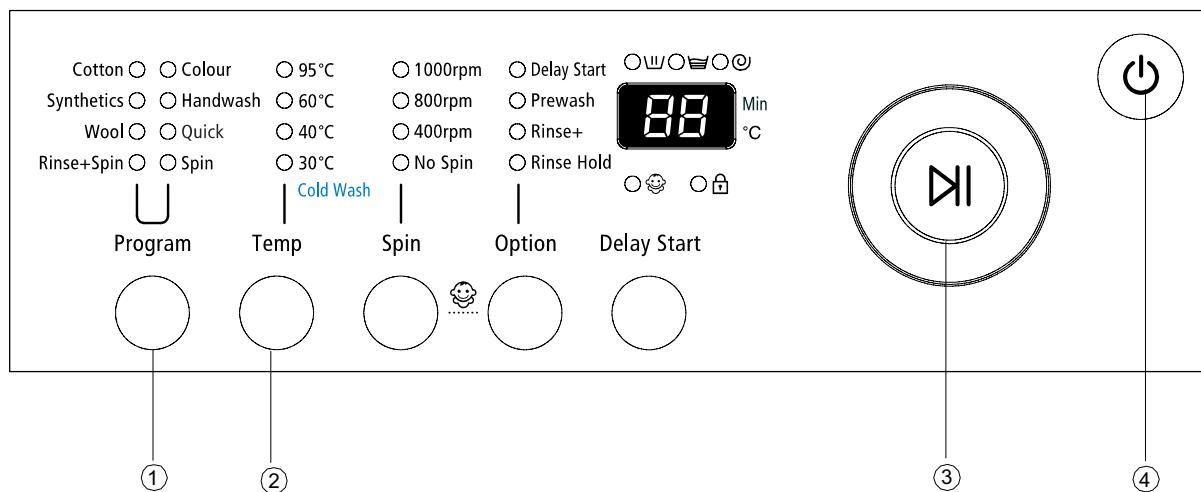
1. An occurrence of an Error will make a sound of error melody for 5sec and continuously show one of the Error Displays from the following errors. (But, Fault Check Led will flash for 0.5sec.)
2. All of the steering parts will be off at that time until that error was released.
3. Water Supply Error
 - If there is no higher change in water frequency than 100Hz for 2 minutes during the initial time of water supply and if water level doesn't reach the preset level in 10 minutes, this error will occur.
This error will be released using Start/Pause button, which performs the initial condition of operation.
 - Display : "4E"
4. Water Drain Error
 - If water level frequency is still lower than the reset level frequency (25.20kHz) in 10 minutes after starting of water drain, this error will occur.
This error will be released using Start/Pause button, which performs the initial condition of operation.
 - Display : "5E"
5. Over Flow Error
 - If an abnormal water level frequency is sensed (for occurrence of Over Flow :21.00kHz), Auto Power Off may release this error and continuously progress water drain until the frequency reached 25.00kHz.
 - If Over Flow is also sensed even after the following check of water level frequency indicating that error, it functions to progress water drain.
 - Display : "OE"
6. Door Open Error
 - This error will be released by closing Door.
 - Display : "dE"
7. Unbalance Error
 - This error will be released by pressing start/pause S/W.
 - DISPLAY : " UE"
8. Water Heater Error
 - This error will be released by turning off Power S/W.
 - Display : "HE1"(Over Heat),
 - Display : "HE2", indicating no operation of HE.
9. Pressure S/W (Single Part Trouble) Error
※ Frequency signals(kHz) generated by water level S/W

| Water Level | Low | High |
|--------------------|-----------|-----------|
| Abnormal Frequency | 30.00 KHz | 15.00 KHz |

 - If the above frequency signals are displayed longer than 5sec, it indicates Pressure S/W Error.
 - Drain water for 3 minutes for that Error, and turn OFF water drain pump. Pressure S/W Error display " IE" will be shown. .
10. Abnormal Water Temperature ERROR
 - Water drain begins if abnormal water temperature is sensed at the initial time of water supply. If the frequency higher than 25.20KHz is sensed, water will be drained by force.
 - Display : "CE"
 - This error will be released by turning off Power S/W.

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11. Natural Drain/Water Leak Error
 - If more than 4 times of water supply and safe water level of Heater are sensed for each course, this error will occur.
 - Display : "LE"
 - This error will be released by turning off Power S/W.
 12. Tacho Error
 - If Motor Tacho is abnormal, this error will occur.
 - If Tacho signals are inputted less than 2 for 2sec after Motor started, this error will occur.
 - Display : "3E"
 - This error will be released by turning off Power S/W.
 13. Motor TRIAC Short Error
 - If Tacho signals are inputted more than 300 every 1sec in the operational interval less than 90RPM, this error will occur.
Turn off Power S/W at that time.
 - Display : "bE"
 - This error will be released by turning off Power S/W.
 14. Thermistor Abnormal Error
 - If Thermistor circuit is abnormal, this error will occur.
 - If Thermistor is lower than 0.2V or higher than 4.5V, this error will occur.
 - Display :"tE"
 - This error will be released by turning off Power S/W.

4-2. TEST MODE



1. Driving Compartment Test Mode

- Hold down "1" and "2" keys simultaneously and then press POWER S/W "4" on.
(Whole lamps turn on and display show "t1" after 3 Seconds.)
- The driving compartment can be tested when you press "3" key right after entering into the initial stage of the TEST MODE.

- Driving Compartment Test

Pre-wash VALVE ON(0.3sec) → OFF(0.3sec) → COLD VALVE ON(0.3sec) → [OFF(0.3sec) → HOT VALVE ON (0.3sec)] → OFF(0.3sec) → Rinse VALVE ON(0.3sec) → OFF(0.3sec) → Pump MOT OR ON(0.3sec) → OFF(0.3sec) → MOTOR Left (0.5sec) → OFF(0.5 sec) → MOTOR Right (0.5sec) → OFF(0.3sec) → HEATER RELAY ON(0.3sec)→ OFF(0.3sec) → DOOR OPEN (Function continues when door is closed)