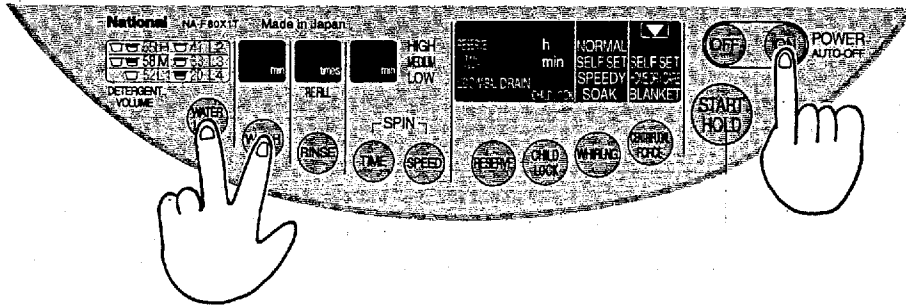


## 6 TEST RUNNING WITHOUT WATER

### 6.1.METHOD TO TEST RUNNING WITHOUT WATER



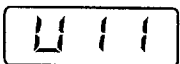
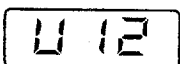
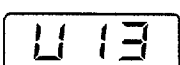
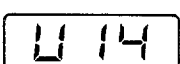
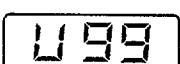





1. Set the power switch to "OFF".
2. Press and hold both the "Water level" and "Wash" buttons with one hand.
3. Set the power switch to "ON" .
4. Release the your fingers from the buttons and power switch which you pressed in steps (2) and (3) above. (Check A can be carried out in this state with your fingers released.)
5. Within three seconds, press the "Water level" button to set to the desired check procedure. (Carry out checks B, C, E, G, H and P.)

Number of times the "Water level" button is pressed	Check Procedure	Check contents	Lamp illumination condition	Operation condition
0	A	<ul style="list-style-type: none"> <li>End signal</li> <li>Time indication</li> <li>Auto power -off</li> </ul>		<ul style="list-style-type: none"> <li>When the end buzzer sounds three times, "88" will simultaneously flash on and off in the remaining time display, and the power will automatically be switched off immediately after operation is finished. If other numbers or characters than "88" appear in the remaining time display, operate service check B-mode.</li> </ul>
1	B	<ul style="list-style-type: none"> <li>Wash operation</li> <li>Feed valve (To rinse case) operation</li> </ul>		<ul style="list-style-type: none"> <li>Even if there is no water in the tub, the washing operation will continue for six minutes.</li> <li>Press "Wash" button to change water flow.</li> <li>During keep pressing "Rinse" button to check conducting condition of rinse case's feed valve.</li> <li>H05 is displayed in case of P.C. Board fault.</li> </ul>
2	C	<ul style="list-style-type: none"> <li>Spin operation</li> <li>Lid switch operation.</li> </ul>		<ul style="list-style-type: none"> <li>The spinning operation will continue for eight minutes.</li> <li>It is possible to check conditions of lid switches.</li> <li>Incase contact point of the lid switch are OFF position, "Lid" indication light up.</li> </ul>
3	E	Set water level 1 rank higher side than laundry amount detector		<ul style="list-style-type: none"> <li>Press the wash button to change L0 to L1 and press Start/Hold button to confirm.</li> </ul>
4	G	Indicated Abnormal alarm of last 2 times		<ul style="list-style-type: none"> <li>[E] shall be indicated initially, Press "Wash" button to change last time to the time before last and return to E as initial mode.</li> <li>If there were some abnormal alarm in the past, "U or H" and some number shall be indicated mutually. If it had no abnormal alarm, [0] mark has displayed.</li> </ul>
5	H	Indicated operation times		<ul style="list-style-type: none"> <li>[E] shall be indicated initially, Press "Wash" button to change "Indication of digit" of operation times</li> <li>Press once : Digit "Thousand · Hundred"</li> <li>Press twice : Digit "Ten · One"</li> </ul>

\*Digit had no abnormal functions on the washing machine.

## 6.1.1 Error indication descriptions

\*If there is an operation error, or if there is a problem with the washing machine, such as faulty draining, spinning, etc; operation will stop, the warning buzzer will sound, and an error indication will be displayed.

Indication	Contents	Check point	Method to clear
	Malfunction of drain	<ul style="list-style-type: none"> <li>Is something wrong with the drain base?</li> <li>Is lint clogging it?</li> <li>Is it kinked?</li> <li>Is a tight hose being used?</li> </ul>	Opening and closing the lid.
	The lid is open	<ul style="list-style-type: none"> <li>Is the lid open? Close it.</li> <li>Check if condition of contact point of the lid switch.</li> </ul>	Close the lid.
	Unbalanced load	<ul style="list-style-type: none"> <li>Has the clothes accumulate into one side?</li> <li>Has the unit been leveled?</li> </ul>	Open the lid and redistribute the load.
	Malfunction of Water supply	<ul style="list-style-type: none"> <li>It is alarmed in case it takes over 30min. to reach selected water level.</li> <li>Check if you have forgotten to connect the water hose and to turn on the faucet.</li> </ul>	Opening and closing the lid to return to initial stage of water supply.
	Child lock operated	<ul style="list-style-type: none"> <li>Check if condition of remaining water in the tub. No remaining water in the tub→Child lock function has operated.</li> </ul>	Remove the power cord and close the lid. After plug in and press Power sw. to ON position.
	Water level detector	Check if condition of the connectors. <ul style="list-style-type: none"> <li>Replace water level detector.</li> <li>Replace P.C.Board (Power side).</li> </ul>	Press Power (Push) switch to OFF position.
	Malfunction of Power (Push) sw. circuit	<ul style="list-style-type: none"> <li>Check if condition of the Power (Push) switch.</li> <li>Replace P.C.Board (Power side)</li> </ul>	Remove the power cord.
	Memory circuit of the I.C	Replace P.C.Board (Power side) ※Operated Service mode (Check-B) only	Press Power (Push) switch to OFF position.
	Malfunction of rotary detector	<ul style="list-style-type: none"> <li>Check if condition of connectors for rotary detector and leadwires</li> <li>Movement of the mechanism motor.</li> <li>Replace P.C.Board (Power side)</li> </ul>	Press Power (Push) switch to OFF position.
	Open circuit of P.C.Board's communication line	<ul style="list-style-type: none"> <li>Check if lead wire condition of P.C.Board between power and operation side, and replace one of P.C.Board's.</li> </ul>	Press Power (Push) switch to OFF position.

**NOTE** · Indications error is displayed reciprocally (Ex "U"→"11")

· H05 · H08 error are displayed by service check wash-mode only.

Indication	Contents	Check point	Method to clear
<b>H21</b>	Malfunction of overflow	<ul style="list-style-type: none"> <li>· Clean the diaphragm inside of the feed valve or replace the feed valve.</li> <li>· Check if output voltage of the P.C.Board (Power side)</li> </ul> ※Operate motorized drain valve and drain water.	Press Power (Push) switch to OFF position
<b>H25</b>	Malfunction of motorized drain valve for drain	Incase the motorized drain valve won't operate within 20 sec. after drain mode has started. <ul style="list-style-type: none"> <li>· Check if condition of connector for motorized drain valve.</li> <li>· Replace the motorized drain valve</li> <li>· Check if output voltage of the P.C.Board (Power side) and replace the P.C.Board</li> </ul>	Press Power (Push) switch to OFF position
<b>H57</b>	Malfunction of motor's current	<ul style="list-style-type: none"> <li>· Check if movement of the motor, And replace the motor.</li> </ul>	Press Power (Push) switch to OFF position
<b>H51</b>	Malfunction of over load	<ul style="list-style-type: none"> <li>· Check if over load of laundry</li> <li>· Check if condition of the connectors for motor and rotary detector, Necessary adjustment</li> <li>· Check if movement of the motor, Replace the motor</li> <li>· Check if output voltage of the P.C.Board (Power side), Replace the P.C.Board (Power side)</li> </ul> ※During Centrifugal washing : Tub rotate less than 180 degrees in 8 sec.	Press Power (Push) switch to OFF position
<b>H52</b>	Malfunction of high voltage	<ul style="list-style-type: none"> <li>· Incase if input voltage to the P.C.Board has detected over AC 150V, Check input voltage by test meter</li> </ul> ※Indicates 5 sec. and auto power OFF	_____
<b>H53</b>	Malfunction of low voltage	<ul style="list-style-type: none"> <li>· Incase if input voltage to the P.C.Board has detected below AC 65V, Check input voltage by test meter.</li> </ul>	Press Power (Push) switch to OFF position
<b>H54</b>	Short circuit of Relay-2 for the Power switch	<ul style="list-style-type: none"> <li>· Incase if detect short circuit of Power relay on the P.C.Board (Power side), Replace the PC.Board</li> </ul>	Press Power (Push) switch to OFF position
<b>H55</b>	Malfunction of over current of inverter circuit	<ul style="list-style-type: none"> <li>· Incase if over current (Above 10A) flow to the inverter circuit.</li> <li>· Replace the P.C.Board (Power side)</li> <li>· Check if short circuit of the motor's coil, Replace the motor.</li> </ul>	Press Power (Push) switch to OFF position
<b>H56</b>	Malfunction of hold circuit for motor's output	<ul style="list-style-type: none"> <li>· Incase if detect malfunction of hold circuit for motor's output when it is abnormal condition.</li> <li>· replace P.C.Board (Power side)</li> </ul>	Press Power (Push) switch to OFF position
<b>H60</b>	Malfunction of detect-circuit for electric leakage	<ul style="list-style-type: none"> <li>· Incase if detect-circuit for electric leakage has not operated</li> <li>· Replace the P.C.Board (Power side)</li> </ul>	Press Power (Push) switch to OFF position
Auto Power OFF during operation <b>(H61)</b>	Electric leakage condition	<ul style="list-style-type: none"> <li>· Incase if detect the electric leakage by detect circuit</li> <li>· Dry up the motor. And repair electric leakage's portion</li> </ul> [NOTE] This malfunction won't memorize to the history.	_____