## POST/Power On

**Test Name**: PP\_T  
**Requirements Tested**:   
**Outline**:   
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 |  |  |

**Test Name**: PP\_T1  
**Requirements Tested**: P1  
**Outline**: Ensure that the system tests the memory  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | The system will start to display information to the screen |
| 2 | Wait | The system will eventually be started |

**Test Name**: PP\_T2  
**Requirements Tested**: P2  
**Outline**: Ensure that the system tests the screen  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | The system will start to display characters on the screen |
| 2 | Wait | Eventually, it’ll move on to the next test |

**Test Name**: PP\_T3  
**Requirements Tested**: P3  
**Outline**: Ensure that the CPU instructions work correctly  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | Diagnostic information will be displayed on the screen relating to the jump instructions being tested |
| 2 | Wait | Eventually the system will move onto the next test |

**Test Name**: PP\_T4  
**Requirements Tested**: P4  
**Outline**: Make sure the power is stable  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | System shows it is starting |
| 2 | Wait | Information relating to the power supply is displayed |

**Test Name**: PP\_T5  
**Requirements Tested**: P5  
**Outline**: Test the ROM to make sure everything is okay  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | System shows it is starting |
| 2 | Wait | System shows ROM diagnostic information on the screen |

**Test Name**: PP\_T6  
**Requirements Tested**: P6  
**Outline**: The POST/Power On tests should be able to run  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn the system on | The first test is run |
| 2 | Wait | Each subsequent test is run one after another |
| 3 | Wait | All tests have been run and the system is in a sane state OR some diagnostic information is being displayed |

**Test Name**: PP\_T7  
**Requirements Tested**: P7  
**Outline**: Check to make sure the buttons can be read from  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | The system shows it is starting |
| 2 | Ask for user input on both buttons | The system confirms each button press and carries on |

**Test Name**: PP\_T8  
**Requirements Tested**: P8  
**Outline**: Check network interface  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn the system on | System shows it is starting |
| 2 | Wait | The system performs a Hardware check to see if there is an ethernet or Wi-Fi  Module |

**Test Name**: PP\_T9  
**Requirements Tested**: P9  
**Outline**: Check blue-tooth module  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system | System shows it is starting |
| 2 | Wait | The system performs a Hardware check to see if there is a blue-tooth module installed |

**Test Name**: PP\_T10  
**Requirements Tested**: P10, P1, P2, P3, P4, P5, P6, P7, P8, P9  
**Outline**: Perform all tests in sequence at system boot  
**Pre-requisites**: System is turned off  
**Method**:

|  |  |  |
| --- | --- | --- |
| **STEP** | Action | Expected Observation |
| 1 | Turn on the system. | The system shows it has begun booting using the LEDs |
| 2 | Wait | Eventually the screen will begin to show POST diagnostic information |
| 3 | Wait | More tests will appear on the screen and completed one after another |
| 4 | Wait | Eventually a splash screen will be displayed, and the user will be informed of any tests that may have failed. |