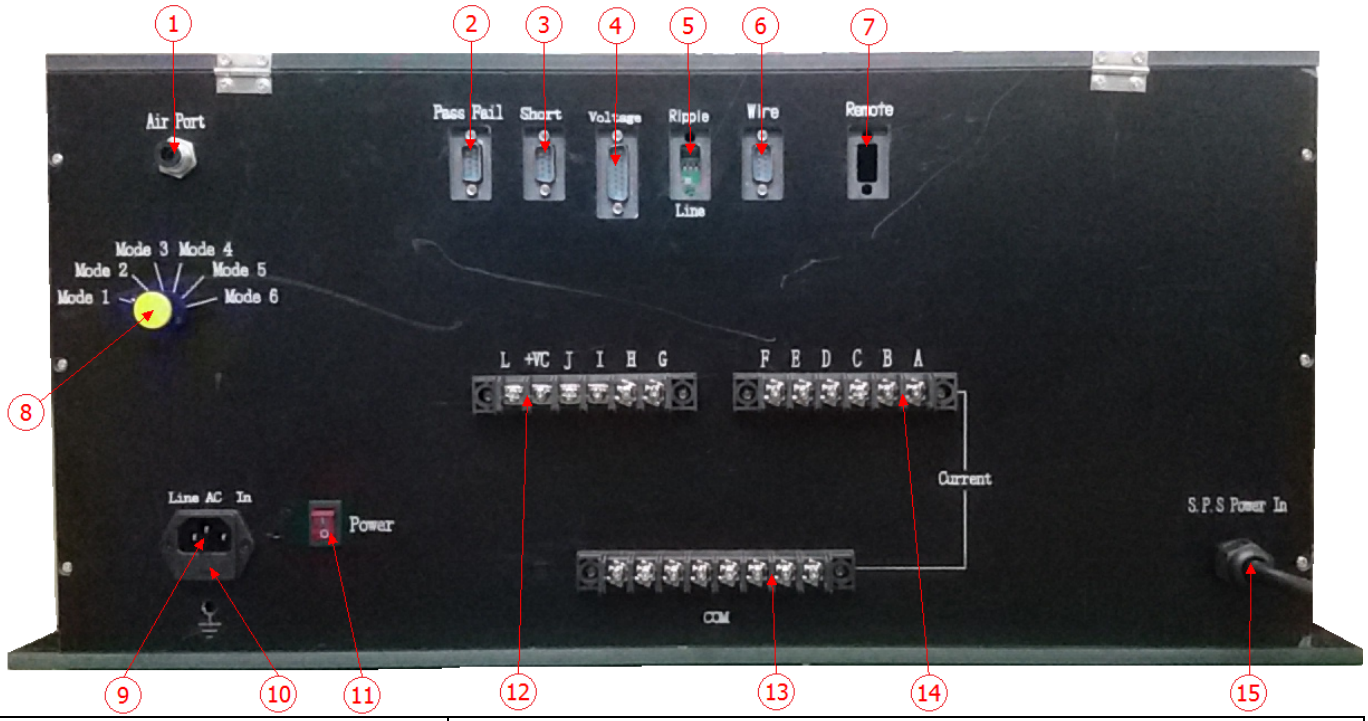
SM-103 User Manual

Features

Front panel

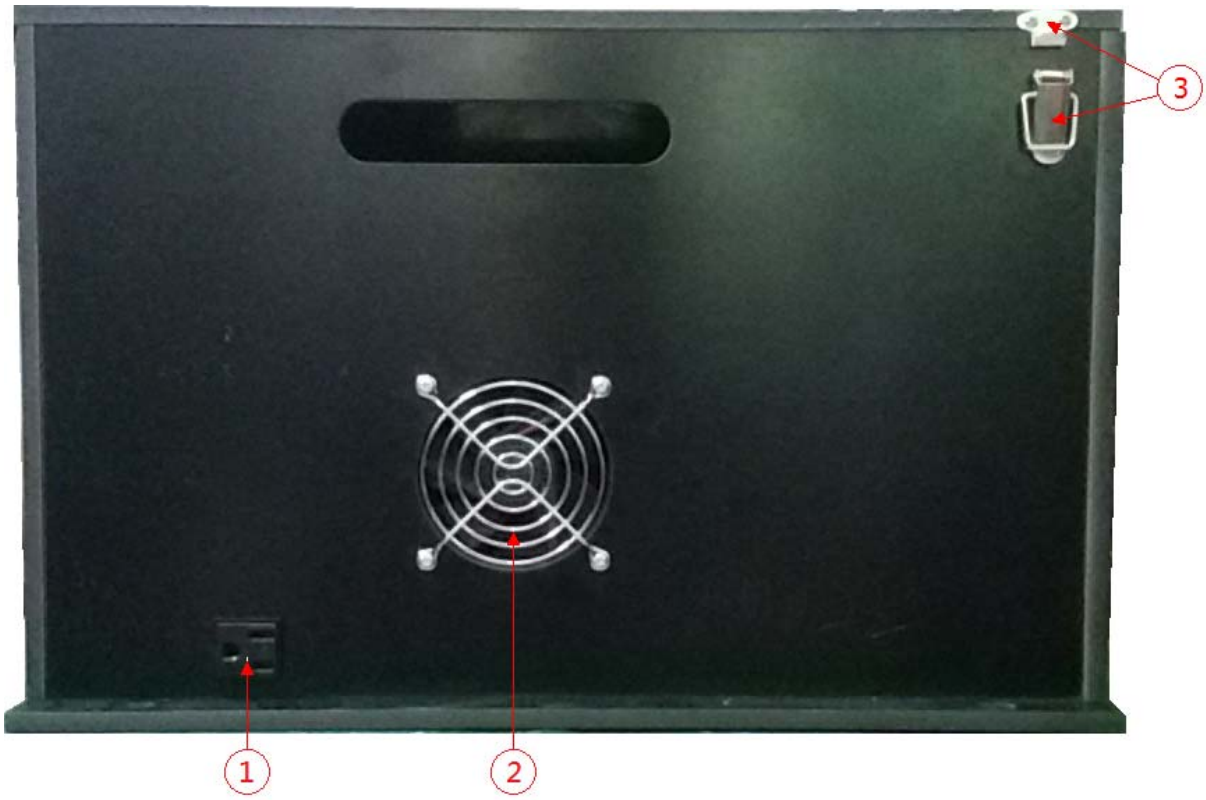
Features	Description
1. Withdraw left pin button with indicator light	Press this button to withdraw left pin. Left indicator light is on while testing left side. Note: SM-103 initial setup test from left side.
2. Withdraw right pin button with indicator light	Press this button to withdraw right pin. Right indicator light is on while testing right side.
3. PASS Indicator Light	Indicator light will twinkle for 1 second when S.P.S test is passed.
4. Fail Indicator Light	Indicator light twinkle for three times (spacing 1 second) when S.P.S test is failed.
5. Switch Button	Press this button to switch testing position. Note: SM-103 initial setup test from left side.
6. Fuse of PC ON signal	If PS ON of SPS abnormal, fuse will protect SM-103 from being damaged by PS ON signal.
7. SATA Jack(Left)	Connect left S.P.S outputs to SATA jack and start teating.
8. SATA Jack(Right)	Connect left S.P.S outputs to SATA jack and start teating.
9. DC Inputs(Left Panel)	Use a standard DC output cables to connect to related pin strips on left panel and start testing.
10. DC Input(Right Panel)	Use a standard DC cables to connect to related pin strips on right panel and start testing.
11. Buzz	Buzz will sound when test failed.

Rear Panel



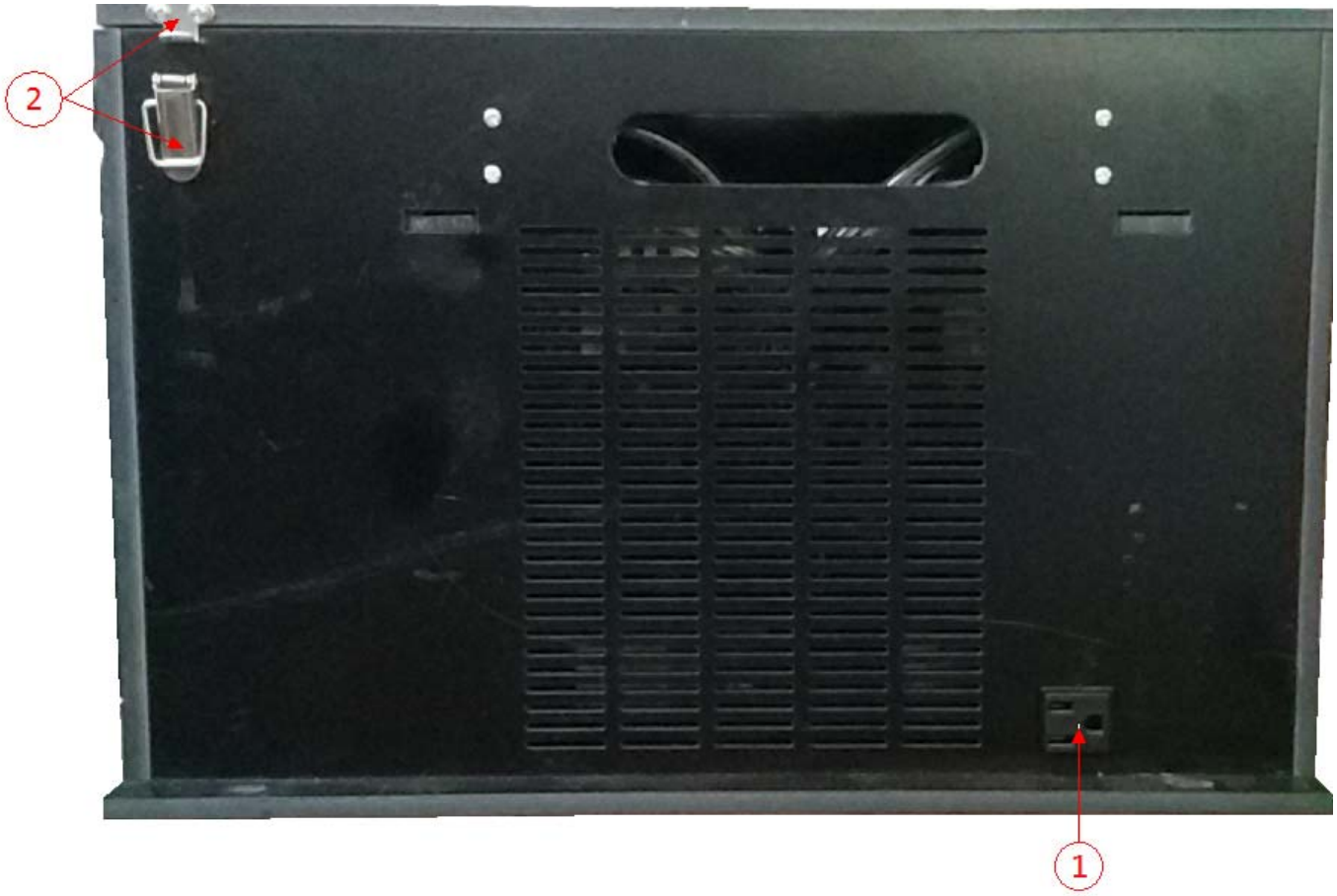
1. Air airport	Push the retaining ring then place the tube inside the air port. Pull off the retaining ring and the tube will be fixed. Please make sure the tube is be well-placed inside the air port to prevent rebounding when air pressure increase.
2. PASS/FAIL Input Port	SM-103 receives information of test result from SM-8800.
3. Short-Circuit Signal Input Port	Receive short-Circuit signal while testing short-circuit protective function.
4. Voltage Output Port	SM-8800 received SPS voltage from Voltage Output.
5. Ripple testing Control Input Port	Use a cable to connect USB port to SM-103 ripple testing module, which allows processing ripple transition.
6. Wire Rod Port	Use a cable to connect this port to computer serial port.
7. Spare Port	Spare port for future use.
8. Modes selection knob	There are 6 modes in SM-102. Turn the knob to select a mode. Please find details on “Modes setup” section.
9. AC input 220V	Use a AC power cable to connect this input to your power source.
10. Fuse	Fuse(5x20mm/1A) cover: If the fuse broken, use a screwdriver or other tool to loft thus tab, and replace the fuse with the same rating. Using a fuse an incorrect rating can damaged the unit and/or fuse.
11. Power Switch	Turns SM-103 on or off.
12. &14.Current Outputs +(A~J)	Use a cable to connect currents output(+) on SM-103 to current input(+) pin strips on SM-8800
13. Current Outputs -(A~J)	Use cables to connect current input(-) on SM-103 to current input(-) pin strips on SM-8800.
15.Power Input Port	Use a AC cable to connect SPS AC input(SM-102) to SPS AC output port(on rear panel of SM-8800).

Left Panel



1. SPS Output Socket (Left)	Use a standard AC cable to connect left S.P.S AC input to this socket and supply electricity to left SPS.
2. Van	Fan for SM-103 heat dissipation(AC 220V/8cm).
3. Toggle Fastener of Top Panel(Left)	There are toggle fasteners on both right and left panel to fasten top panel.

Right Panel

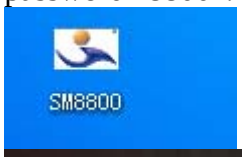


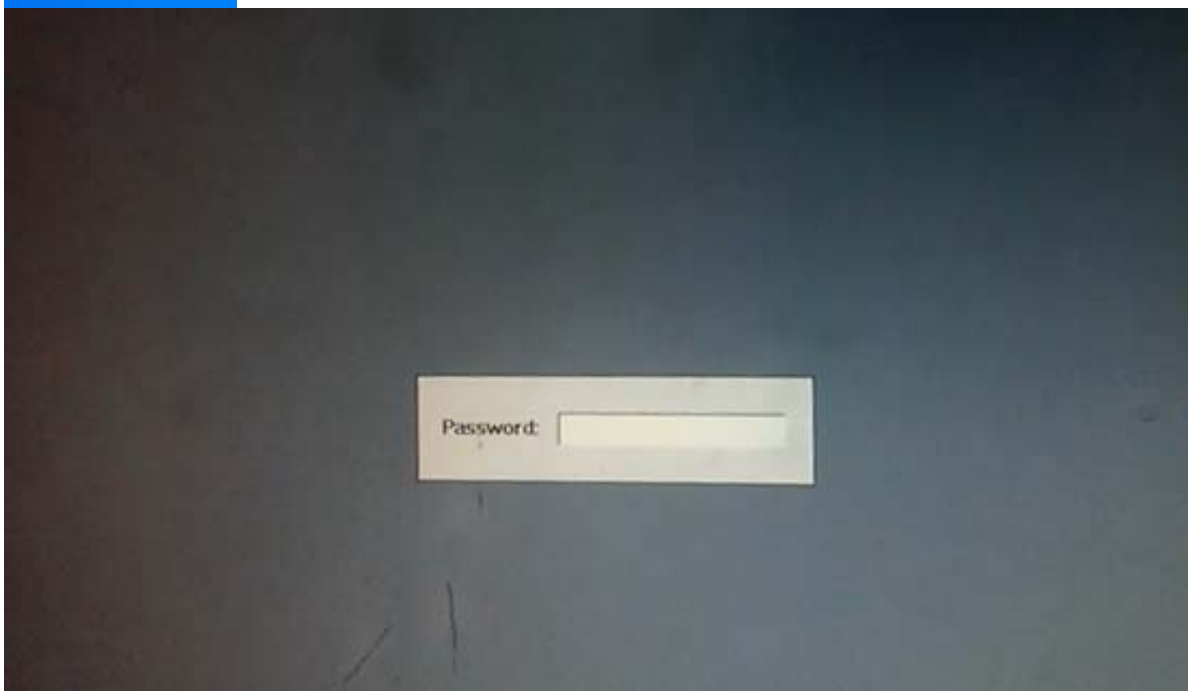
1. SPS Output Socket(Right panel)	Use a standard AC cable to connect right S.P.S AC input to this socket and supply electricity to right SPS.
2. Toggle Fastener of Top Panel(Right)	There are toggle fasteners on both right and left panel to fasten top panel.

Program Setup

Wire Rod Sampling

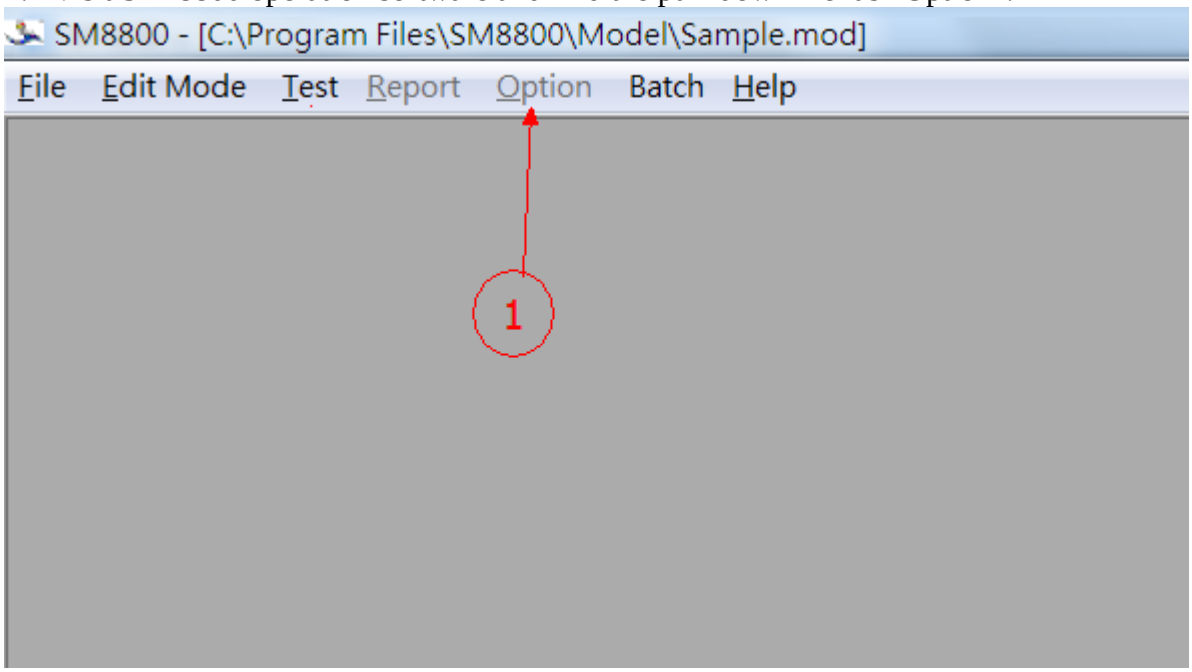
Double click on the “SM8800” icon as below and access to the program. At first, please enter the password “8800”.



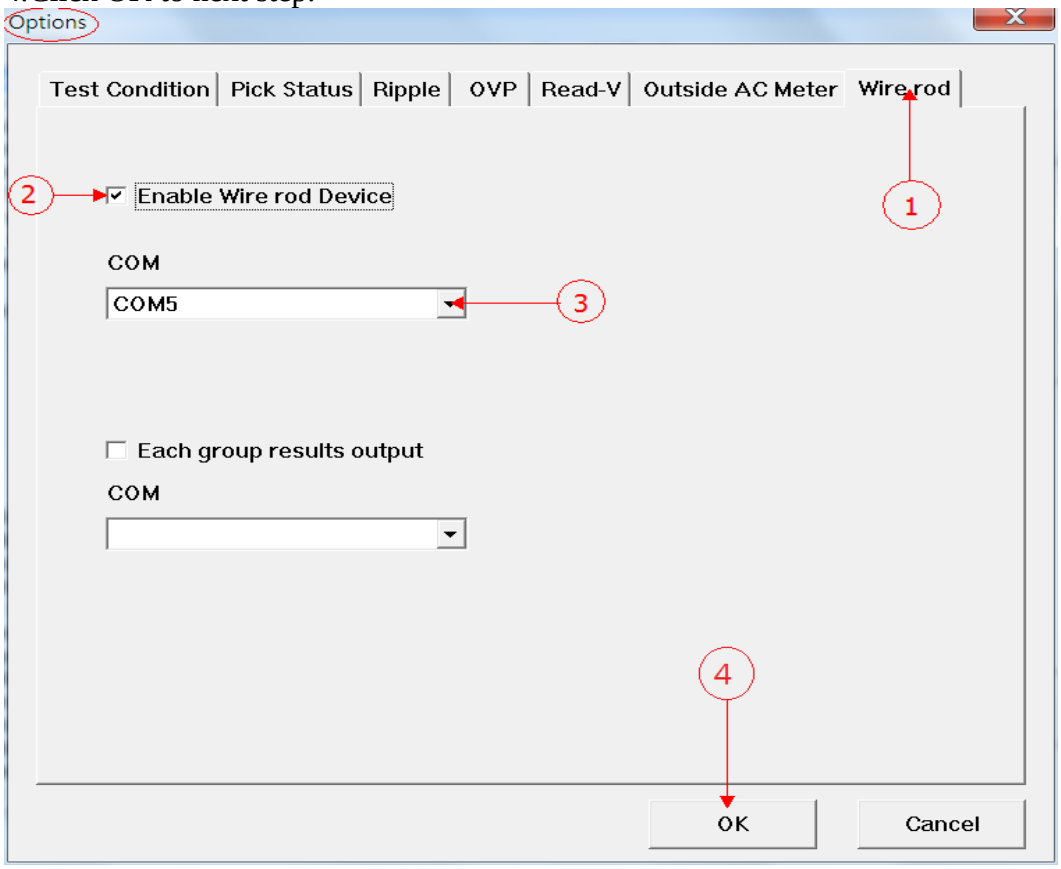


Following are steps about setup, please find below pictures and description:

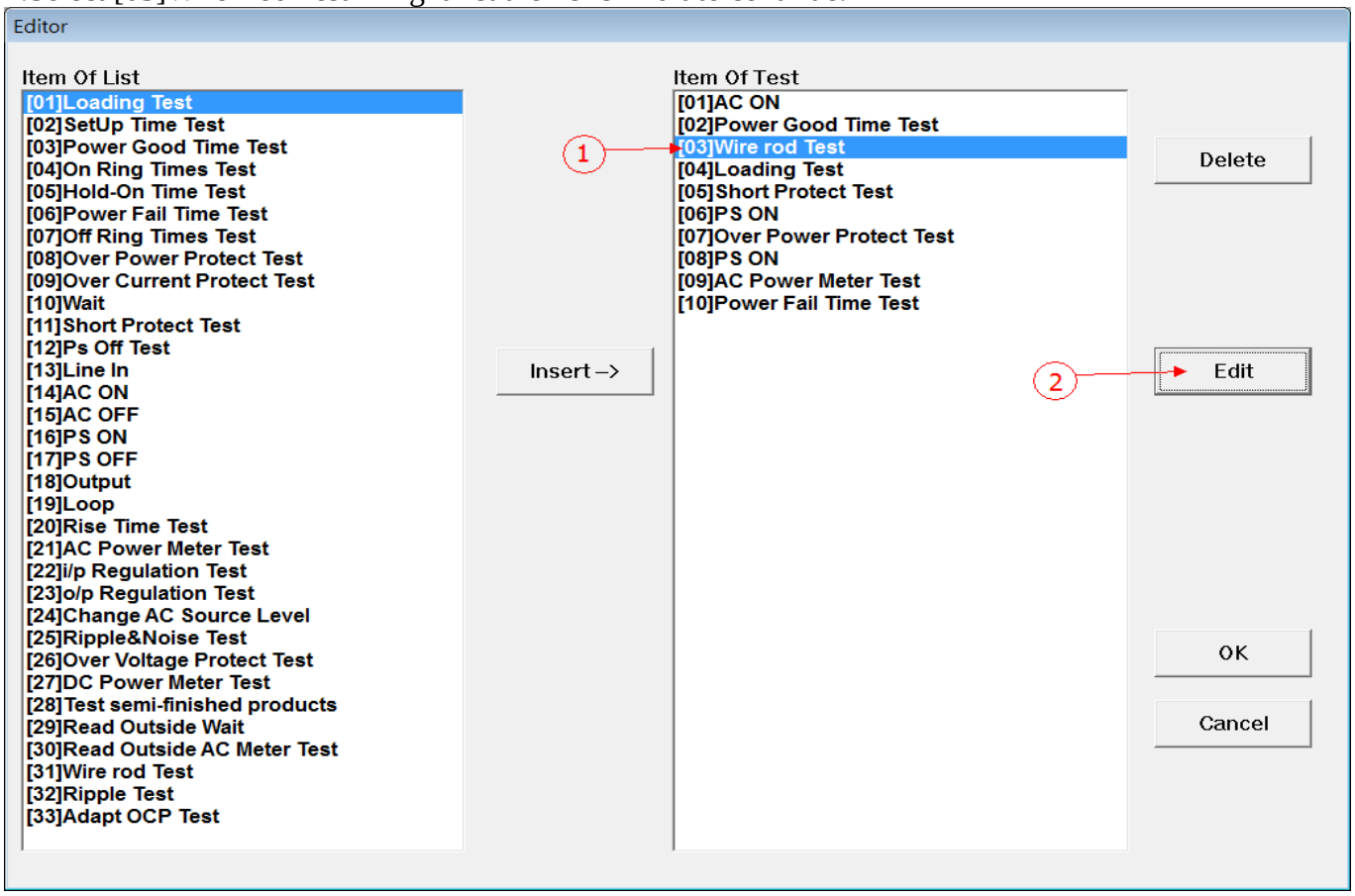
1. Visit SM-8800 operation software and find the pull-down menus “Option”.



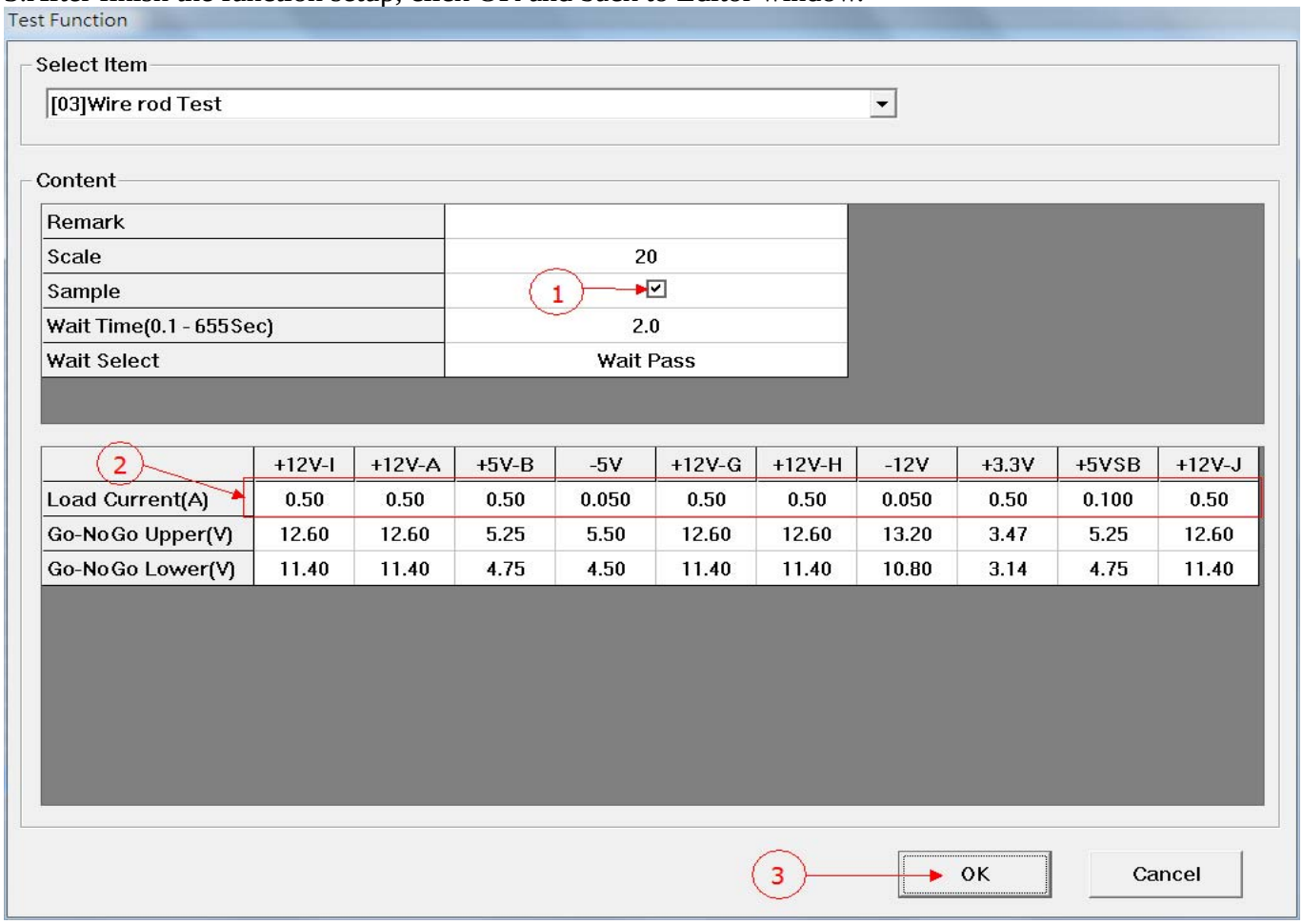
1.Select Wire rod on top column.
2.Check and click the “Enable Wire Rod Device”
3.Select the correct serial port on your computer which connect to SM-103 wire rod port.
4.Click OK to next step.



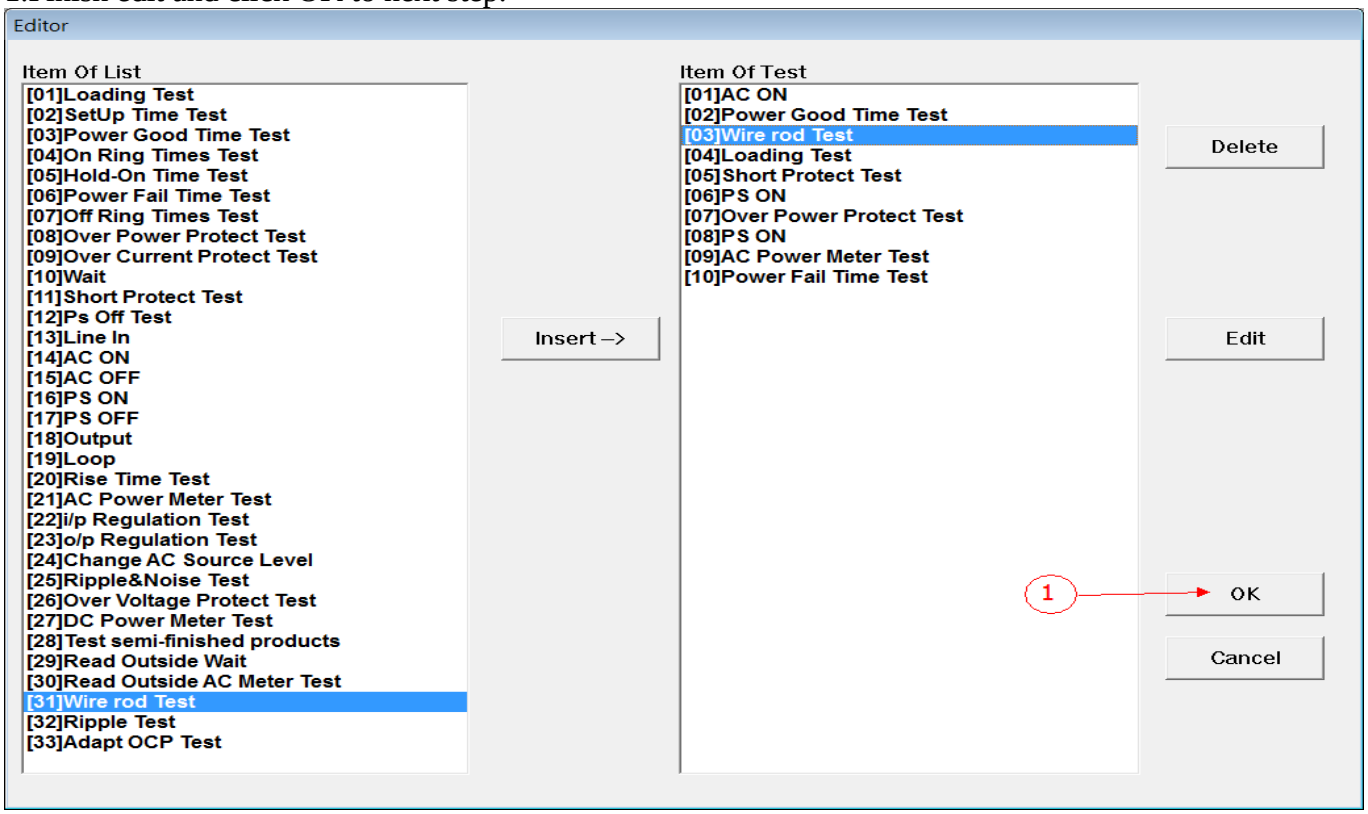
1.Enter Editor and choose [31]Wire Rod Test in left list then click “insert→”
2.Select [03]Wire Rod Test in right list then click Edit to continue.



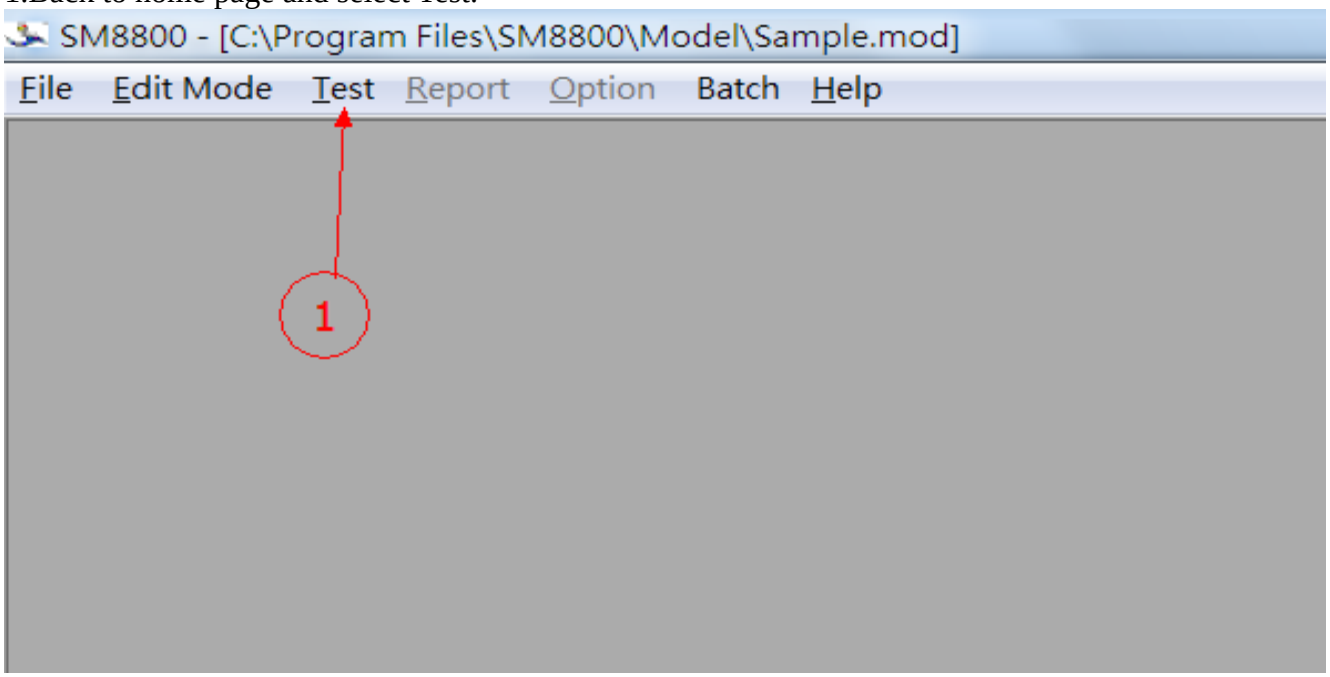
1.After entering the Test Function window, check and click the Sample.
2.Fill all low load of SPS (or enter 0)in column load current A.
3.After finish the function setup, click OK and back to Editor window.



1.Finish edit and click OK to next step.

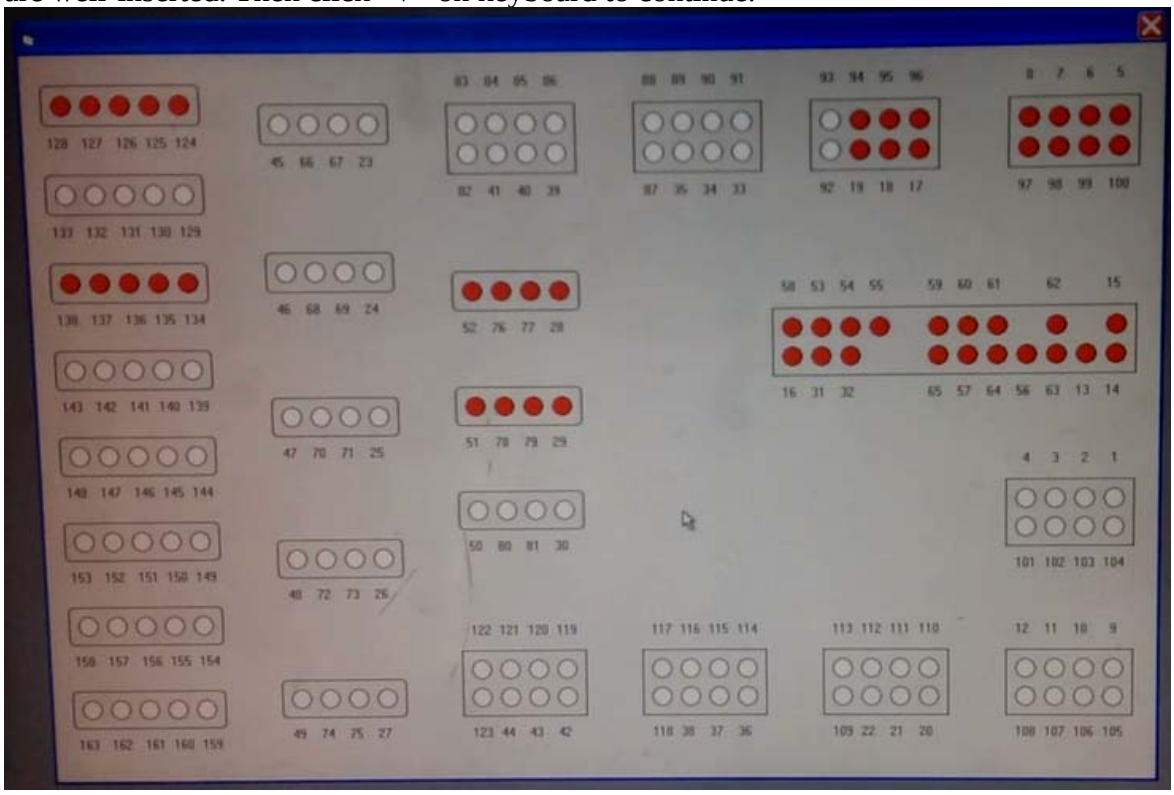


1.Back to home page and select Test.

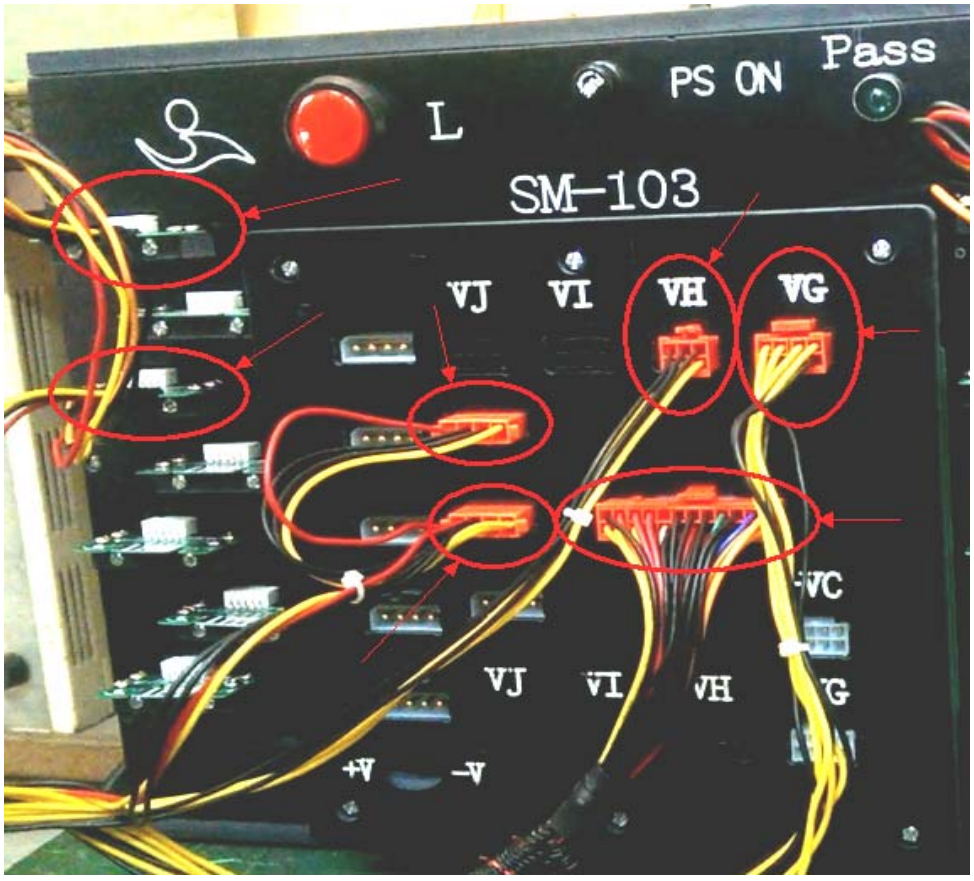


1.It shows as below picture to remind User to verify if all testing wire rods are already inserted. Click the button that arrow pointed after all wire rods are assembled in correct position.

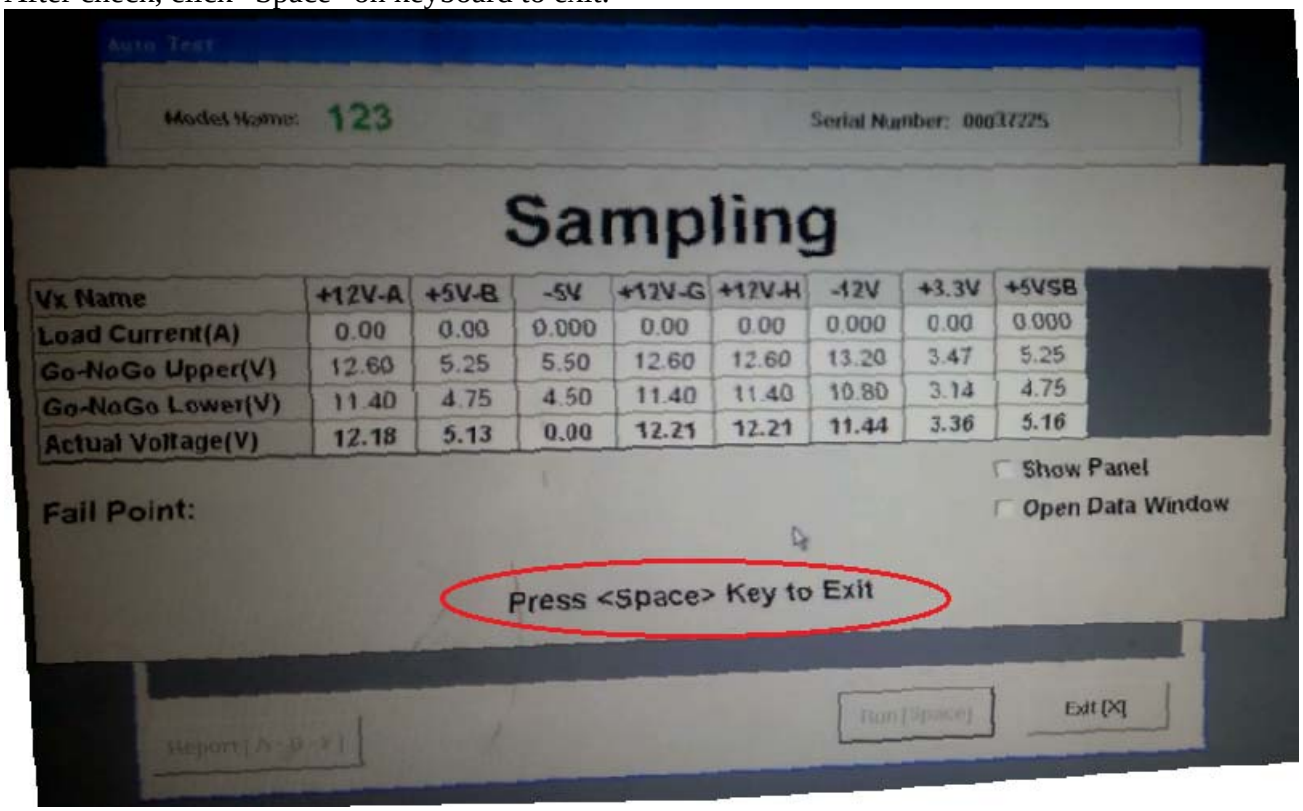
Following is DC input board as below pictures. The red dot show the actual wire rods(Sample) that are already inserted. Due to the program will regard it as the test standard. Please verify if all the connector are well-inserted. Then click “V” on keyboard to continue.



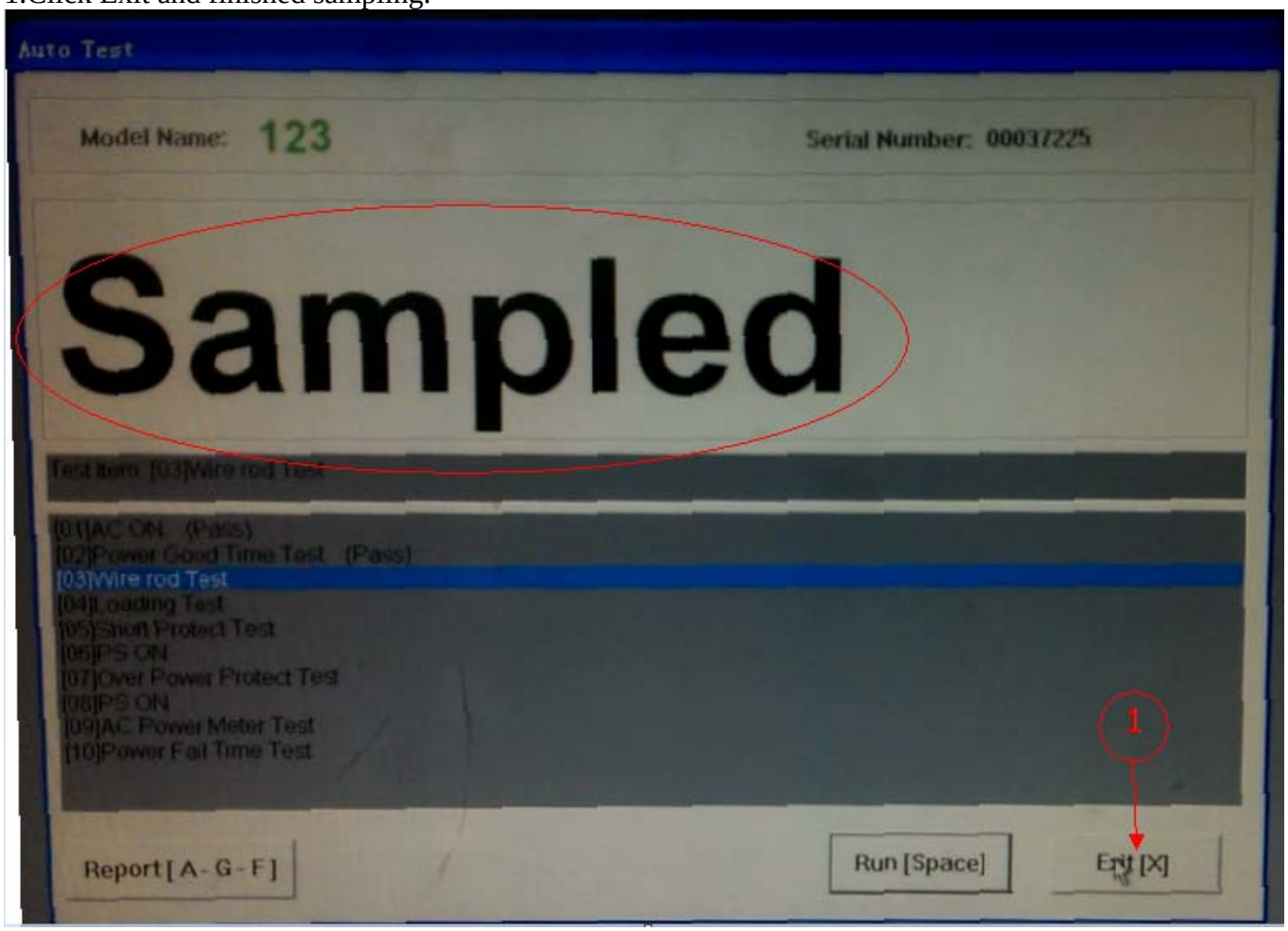
Actual wire rod insert picture ↓



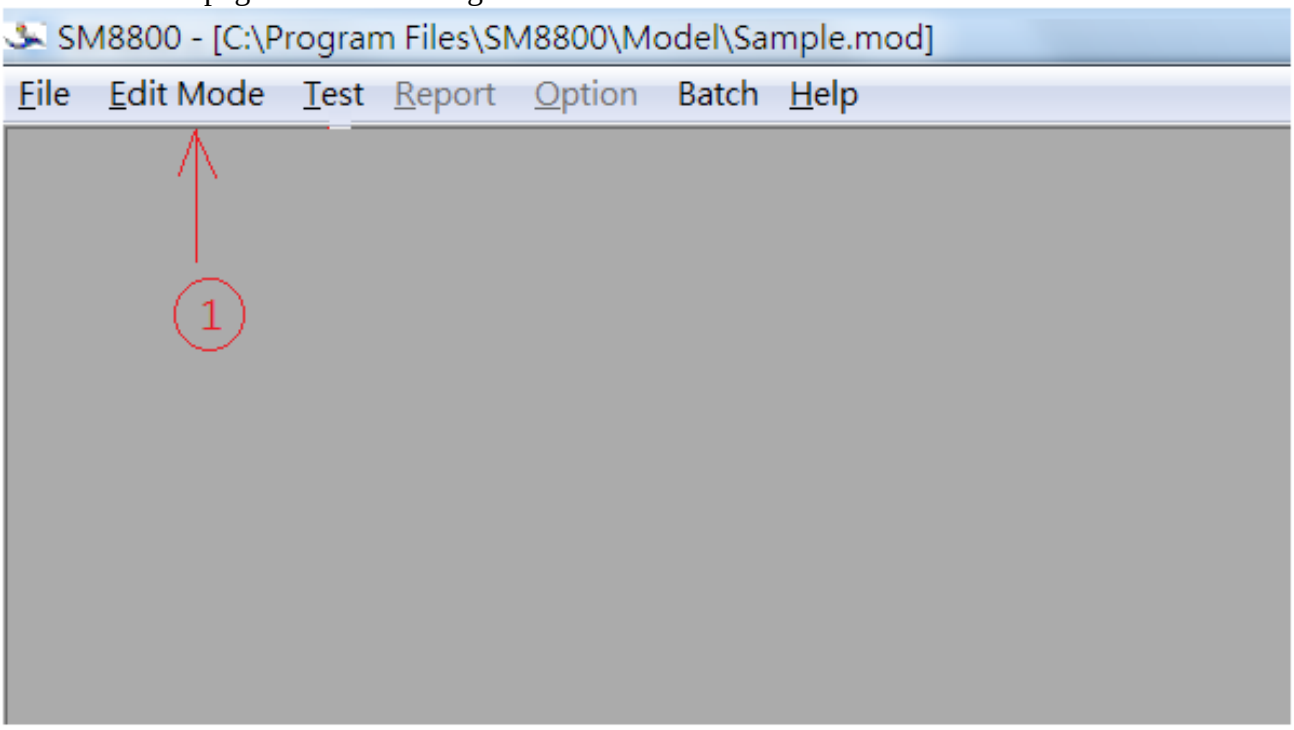
After check, click “Space” on keyboard to exit.



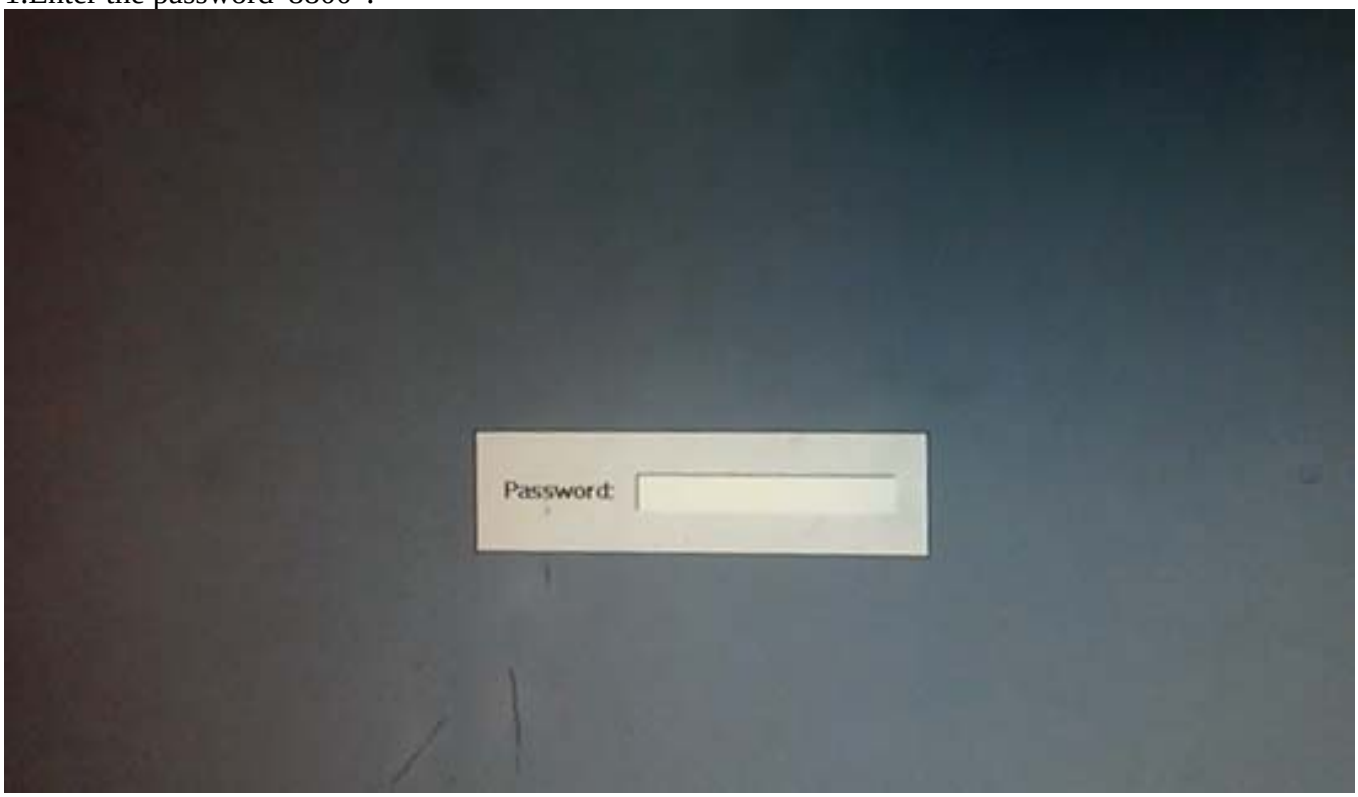
1.Click Exit and finished sampling.



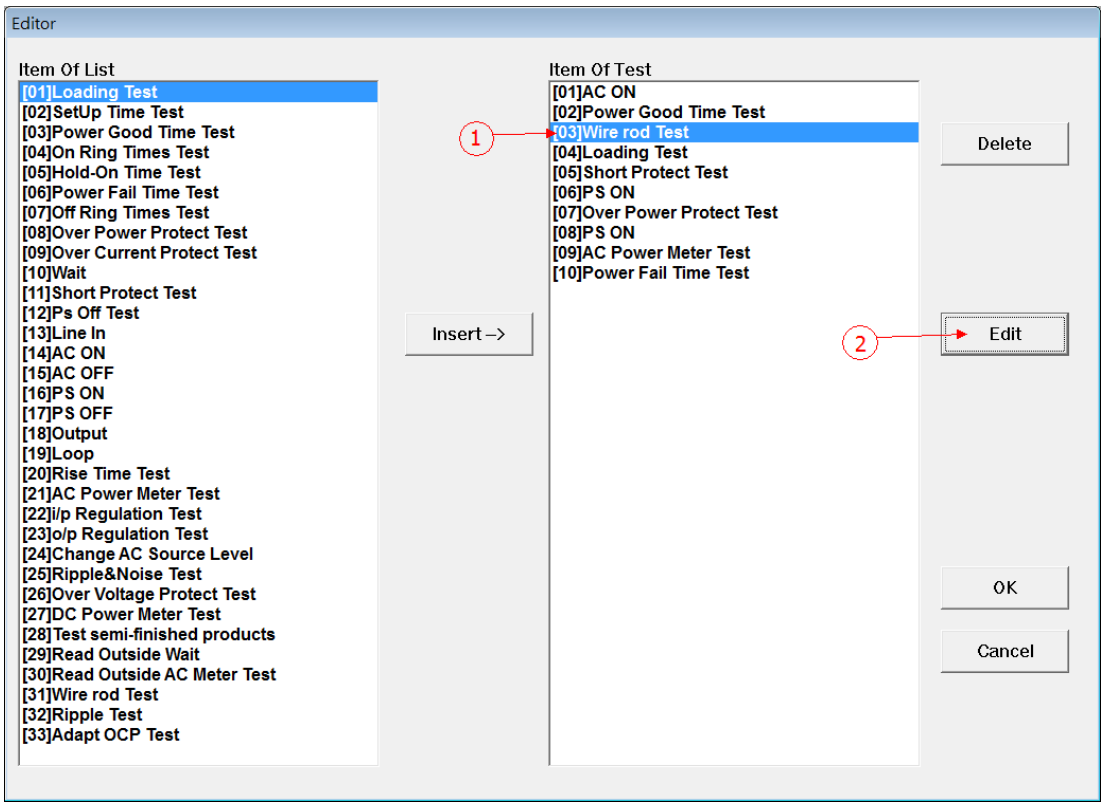
1.Back to main page and click edit again.



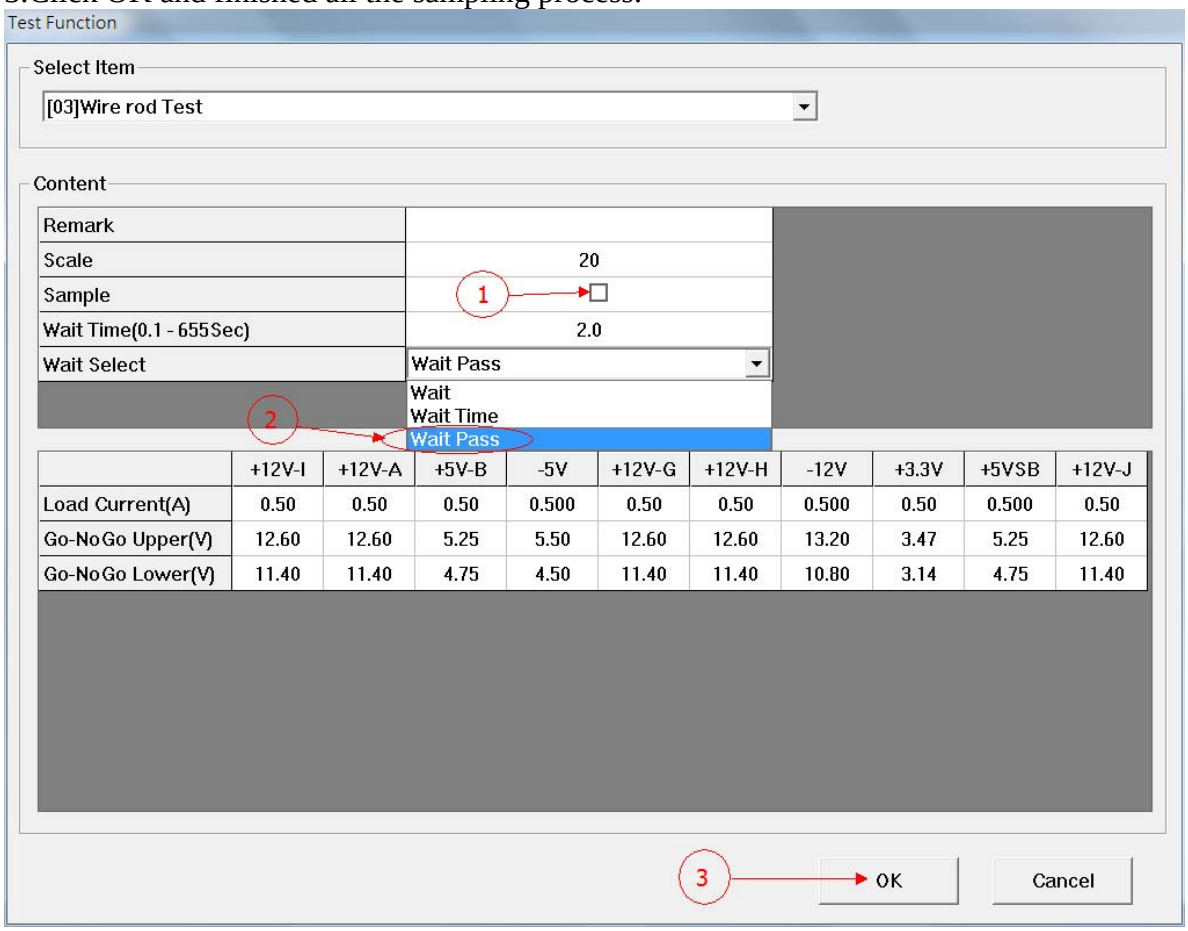
1.Enter the password”8800”.



1.Select [03]Wire rod Test again
2.Then click edit.

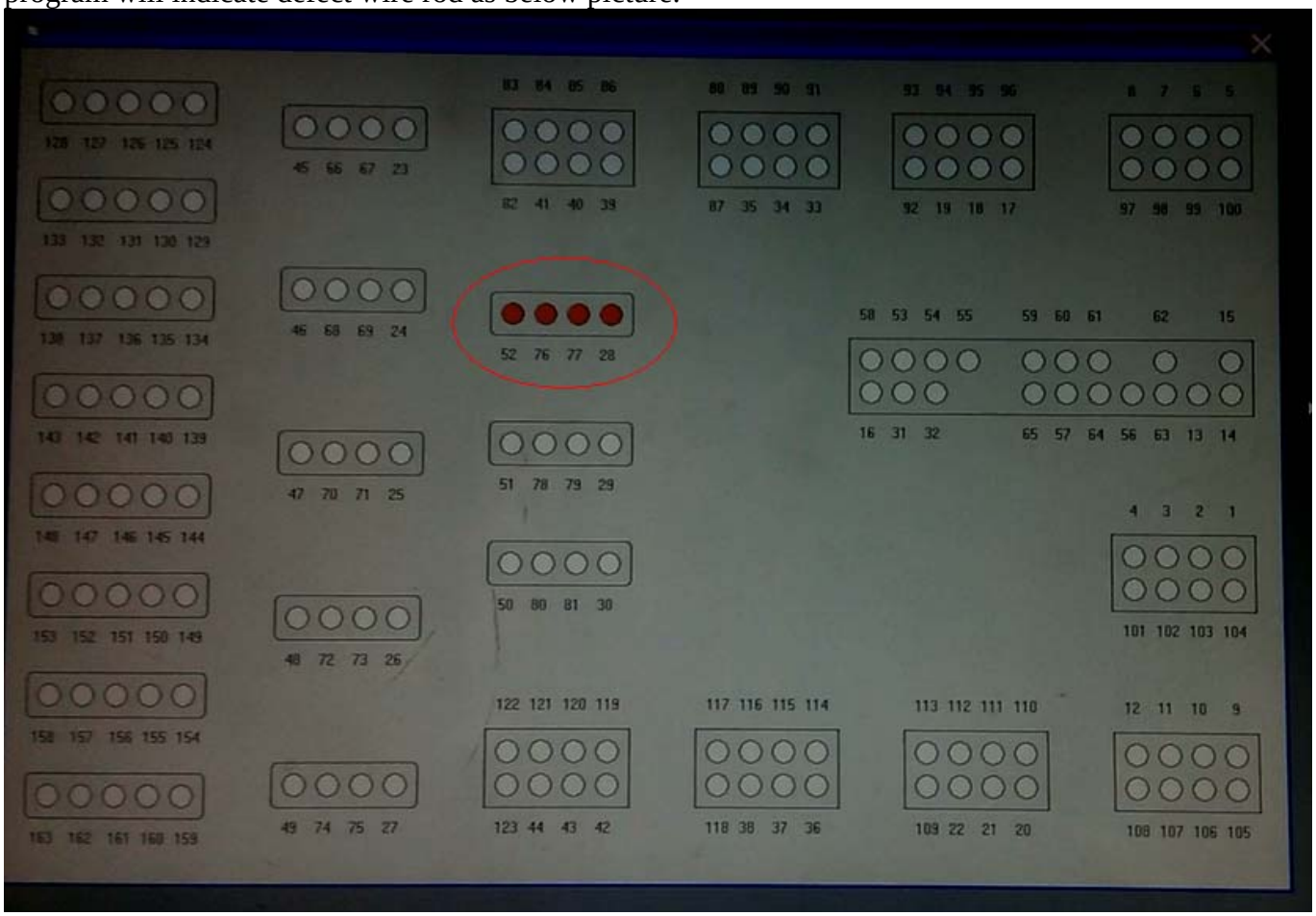


1.Delete the remark on sample square.
2.Select “Wait Pass” in pull-down menus in wait select.
3.Click OK and finished all the sampling process.



Wire Rod Test

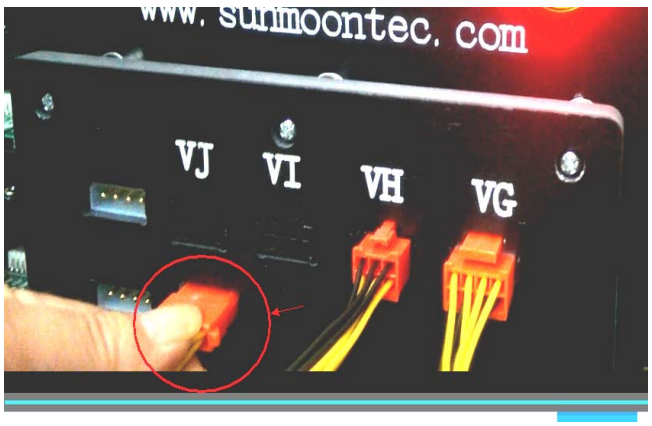
When test passed, program will show result is passed and continue to test next items. When test failed, program will indicate defect wire rod as below picture.



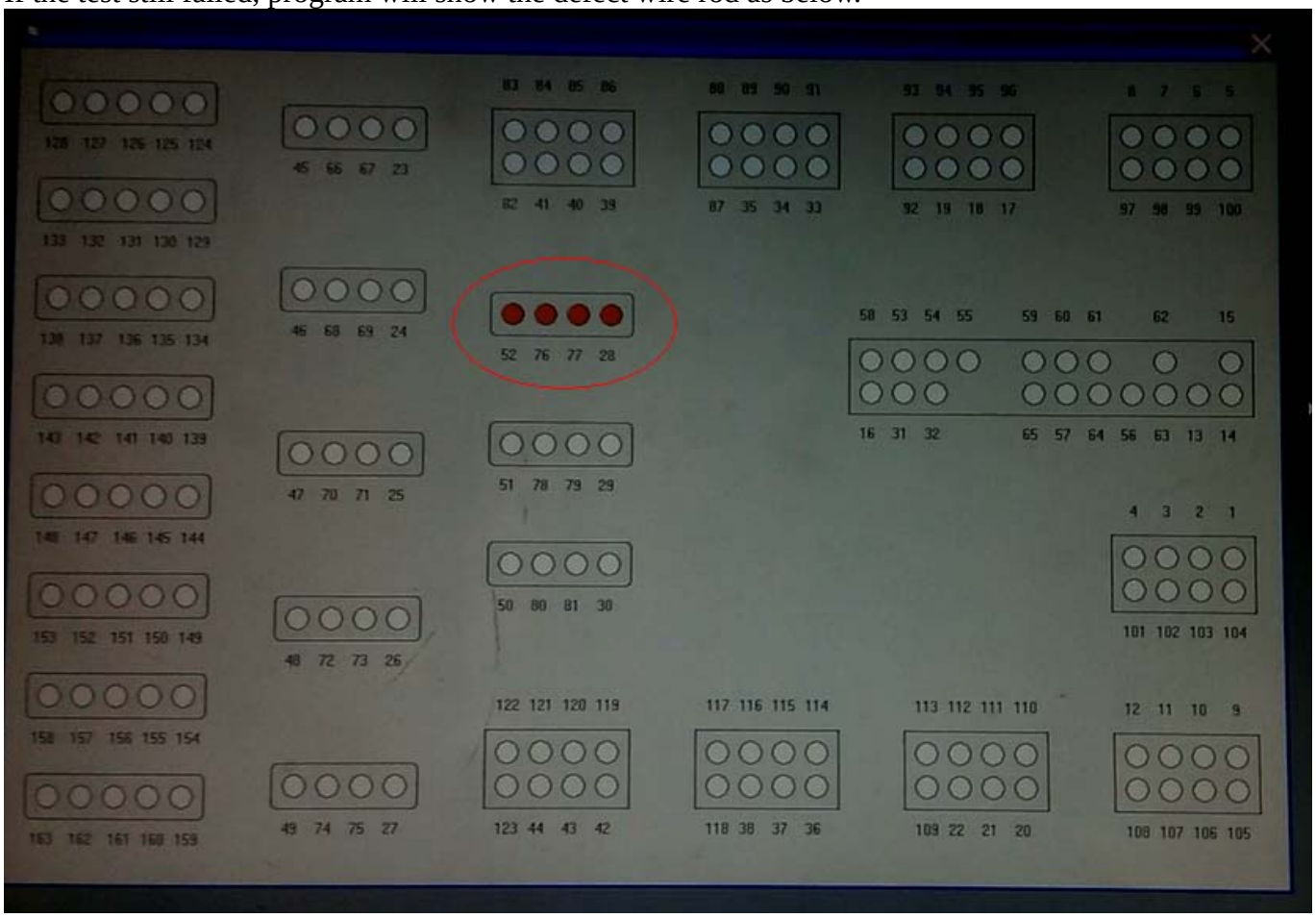
Please check if the wire rod is detached or loosed first and retest. If wire is in good condition, test result will pass.

↓ Wire detached cause test failed

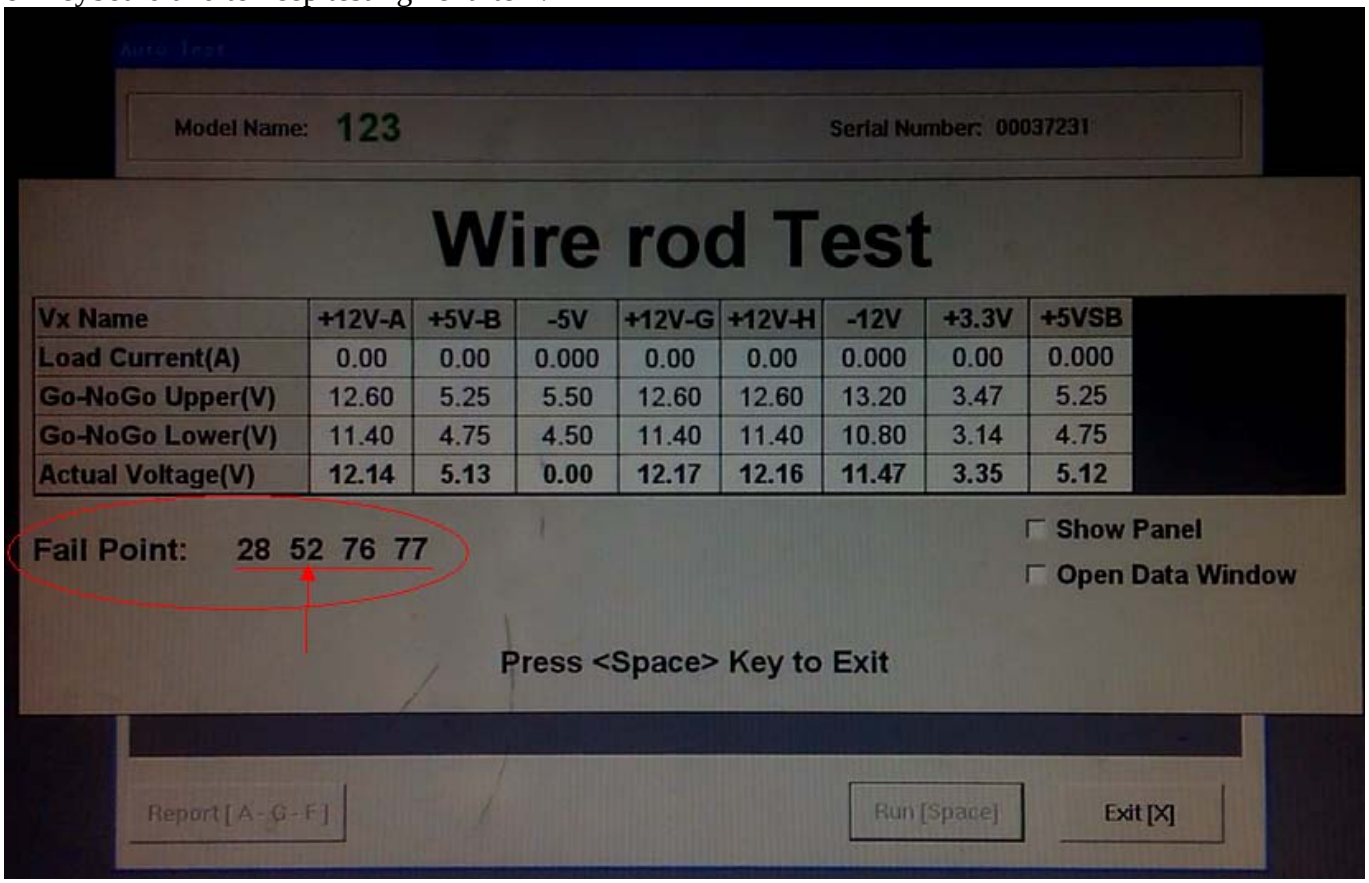
↓ Check and retest after well-inserted



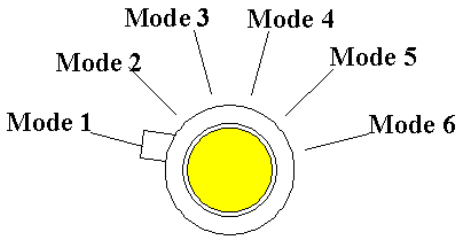
If the test still failed, program will show the defect wire rod as below.



Click “V” on keyboard and program will show the defect number. At this moment, user can click “Space” on keyboard and to keep testing next item.



Modes Setup



There are 6 modes in SM-102, below is the procedure of setting:

Step1:Turn off the power and switch to the correct mode
Step2:Turn on the power

-The initial setup on each mode tests from left hand side.
-User have to click “Space” to start testing except for mode2.
-In manual mode, user can press the withdraw button and switch the test position immediately when test finished. It can be operated before indicator light off and buzzer stop. If machine crash while testing, user can withdraw pin and switch test position manually.

Mode1

Test Result	Setting
Pass	Withdraw pin and switch test position manually.
Fail	Withdraw pin and switch test position manually.

If test result is “PASS”, Pass indicator light flash and buzzer sound for 1 sec. User have to withdraw pin and switched test position manually.

If test result is “FAIL”, Fail indicator light flash for 3 times and buzzer sound for 3 times. User have to withdraw and switched test position manually.

Mode2

Test Result	Setting
Pass	Pin is withdraw and Test position is switched automatically.
Fail	Withdraw pin and switch test position manually.

At this mode, when left side finish testing, it will continue to test right side without click the “Space” on keyboard.

If test result is “PASS”, Pass indicator light flash for 1 sec. Pin will be withdraw and test position will be switched to right hand side automatically.

If test result is “FAIL”, Fail indicator light flash for 3 times and buzzer sound for 3 times. User have to withdraw pin and switch test position manually.

Mode4

Test Result	Setting
Pass	**Pin is withdraw automatically/Switch test position manually.**
Fail	**Withdraw pin and Switch test position manually.**

If test result is “PASS”, Pass indicator light flash for 1 sec and pin will be withdraw automatically. User have to switch the test position manually by pressing switch button.

If test result is “FAIL”, Fail indicator light flash for 3 times and buzzer sound for 3 times. User have to withdraw pin and switch test position manually.

Mode5

Test Result	Setting
Pass	**Pin is withdraw automatically/Test position is switch automatically**
Fail	**Pin is withdraw automatically/Test position is switch automatically**

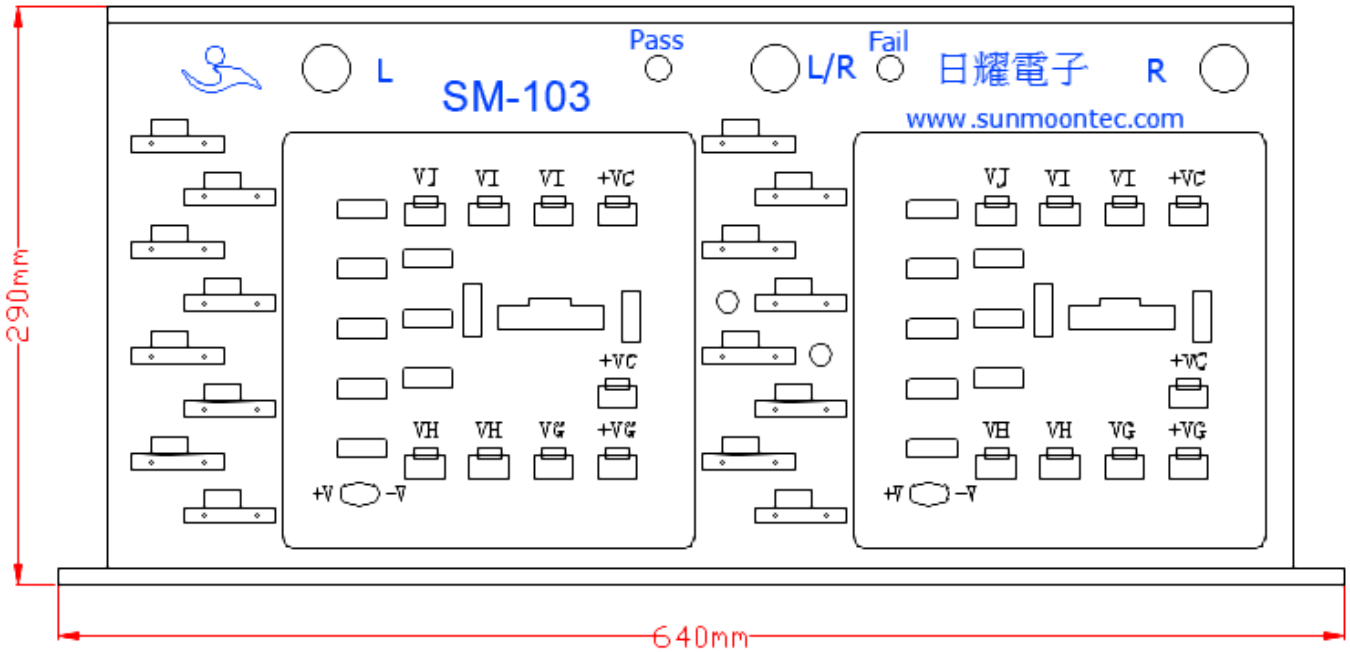
If test result is “PASS”, Pass indicator light flash for 1 sec. Pin will be withdraw and test position will be switched automatically.

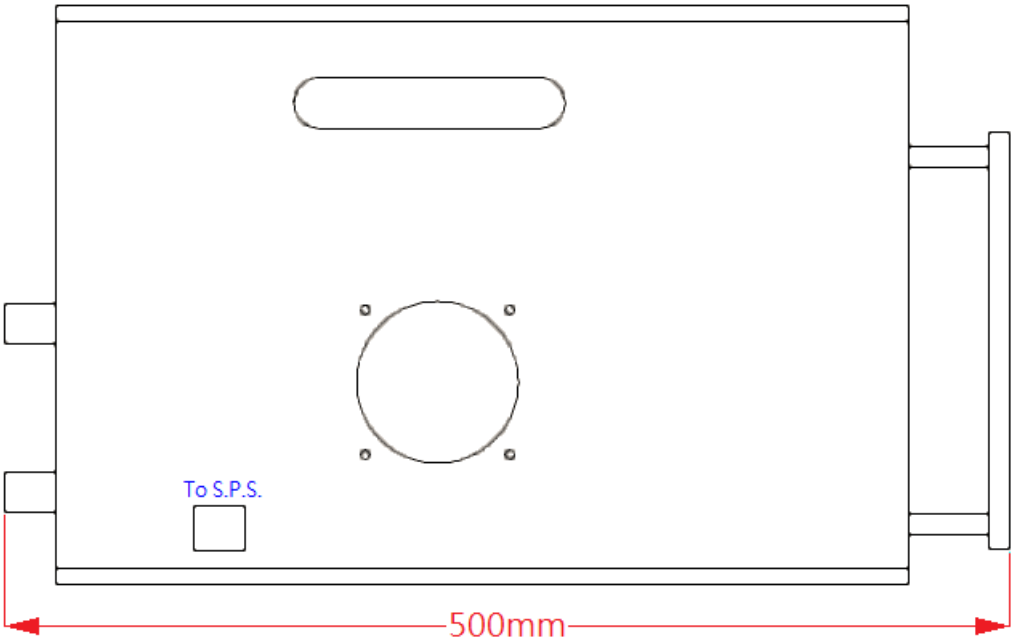
If test result is “FAIL”, Pass indicator light flash for 1 sec. Pin will be withdraw and test position will be switched automatically.

Mode6:Not run for Pass/Fail signal

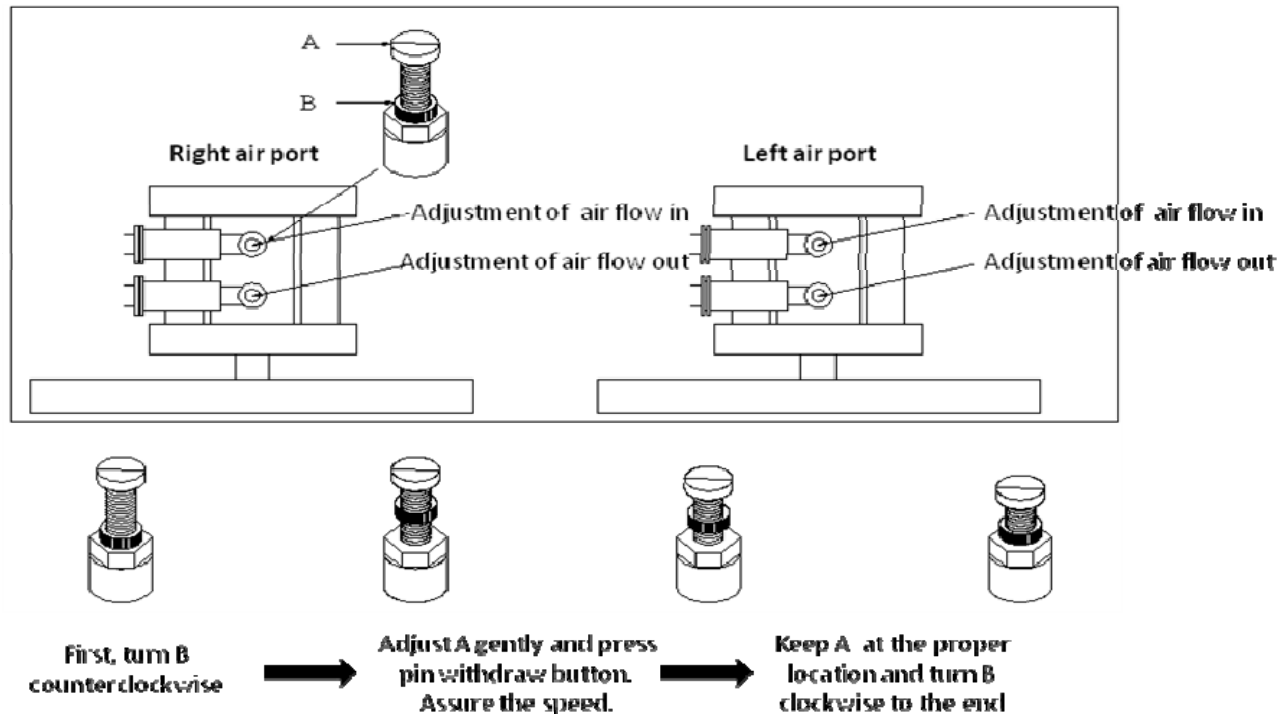
Withdraw pin and switch test position manually.
*Note: Due to this mode won’t show the signal of Pass/Fail. User have to operate manually.

Cosmetic and Dimension





Cylinder Adjustment



***Attention: Fixture worked for long time leads to cylinder head loosed. If there is any difference in set up speed or intensity, please adjust cylinder in time.**

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