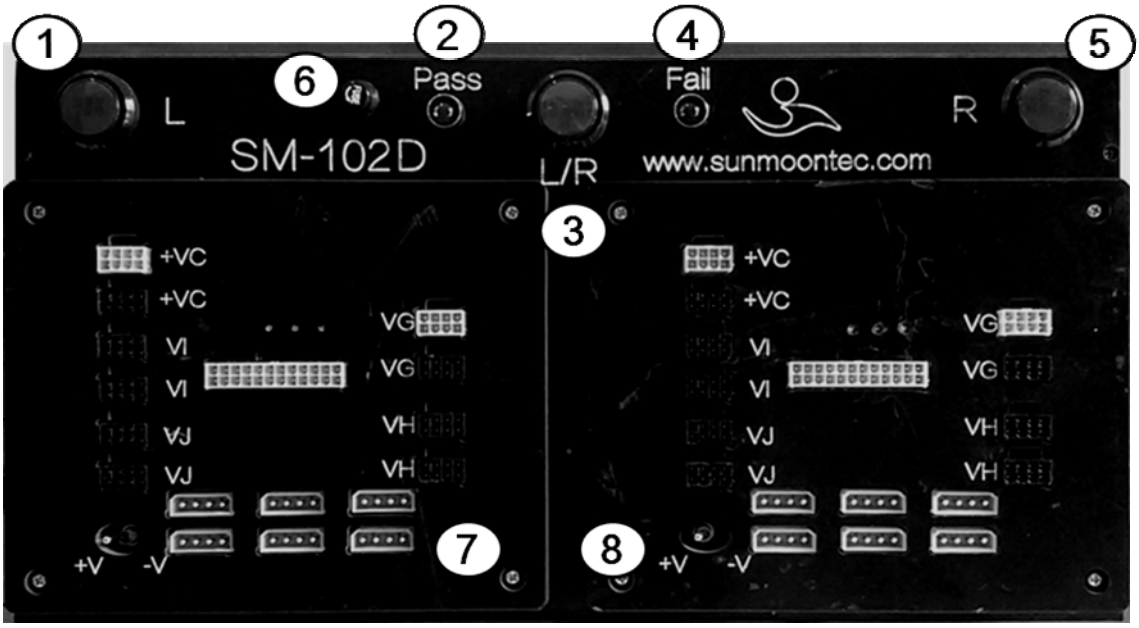
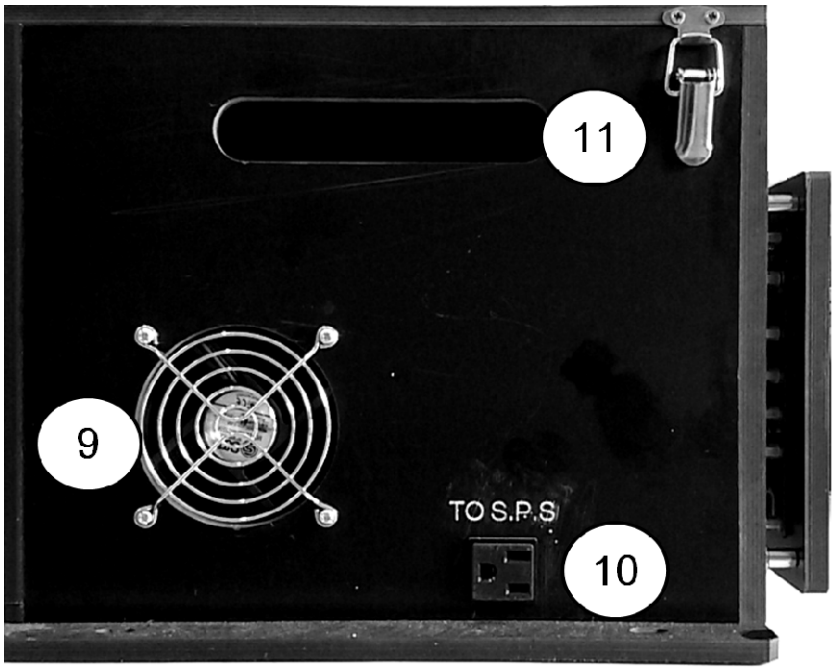
SM-102 Withdrawal PIN Fixture
User Manual

Features

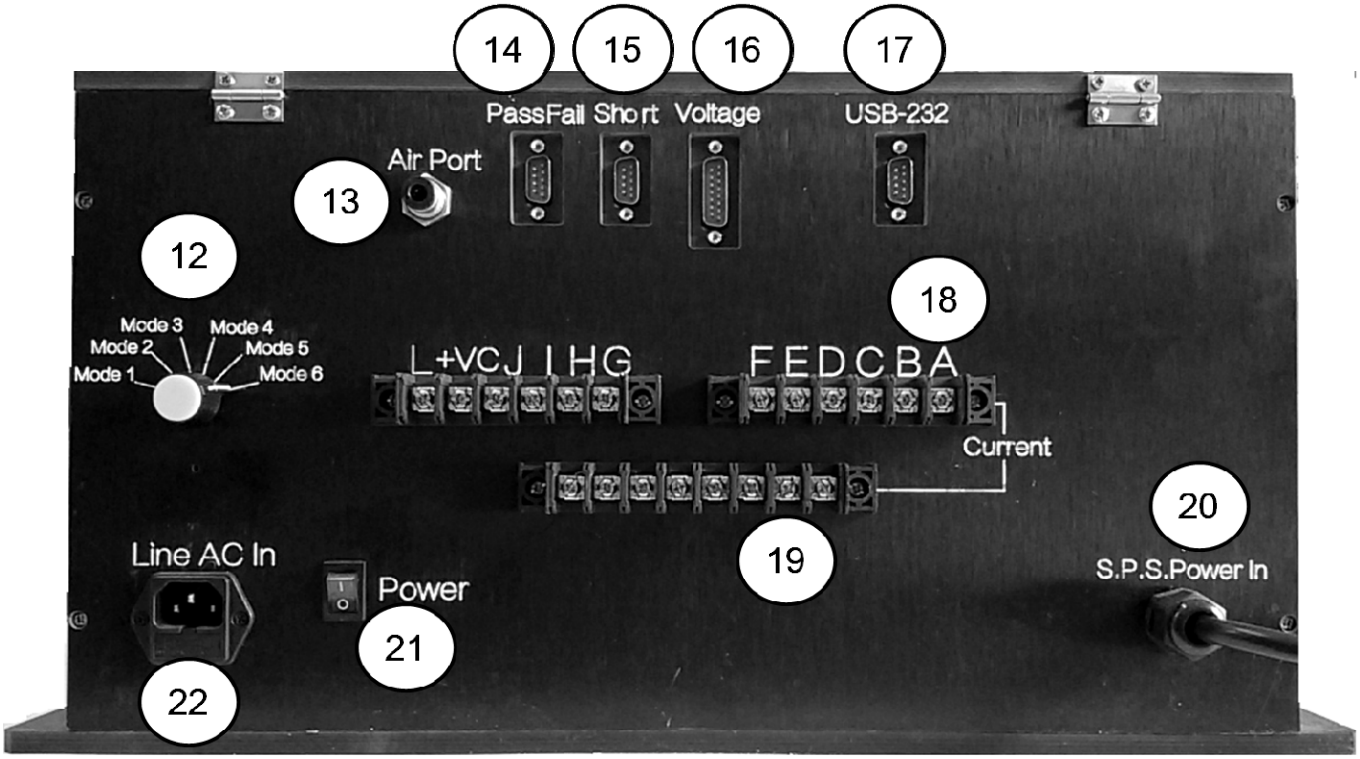
Front Panel



Side Panel



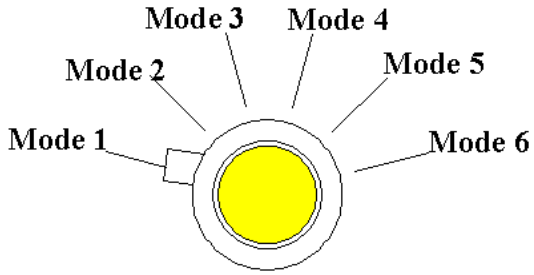
Rear Panel



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-102 initial setup test from left side.
2. PASS Indicator Light	Indicator light will twinkle for 1 second when S.P.S test is passed.
3. Switch Button	Press this button to switch testing position. Note: SM-102 initial setup test from left side.
4. Fail Indicator Light	Indicator light twinkle for three times (spacing 1 second) when S.P.S test is failed.
5. Withdraw Right Pin Button with Indicator Light	Press this button to withdraw right pin. Right indicator light is on while testing right side.
6. Fuse	A fuse to protect SM-102 fixture's power supply.
7. DC Inputs(Left Panel)	Use a standard DC output cables to connect to related pin strips on left panel and start testing.
8. DC Inputs(Right Panel)	Use a standard DC cables to connect to related pin strips on right panel and start testing.
9. Van(Right/Left)	Fan for heat dissipation(AC 220V/8cm).
10. SPS Output Socket(Left Panel/Right panel)	Use a standard AC cable to connect S.P.S AC input to this socket and supply electricity to SPS.
11. Toggle Fastener of Top Panel (Right/Left)	There are toggle fasteners on right and left panel to fasten top panel.
12. Modes Selection Knob	There are 6 modes in SM-102. Turn the knob to select a mode. Please find details on "Modes setup" section.
13. Air Port	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.
14. PASS/FAIL Input	SM-102 receives information of test result from SM-8800.
15. Short-Circuit Signal Input	Receive short-Circuit signal while testing short-circuit protective function.
16. Voltage Output	SM-8800 received SPS voltage from Voltage Output.
17. Ripple testing Control Input Port	Use a cable to connect USB port to ripple testing module, which allows processing ripple transition.
18. Current Outputs + (A~J)	Use cables to connect current input(+) on SM-102 to current input(+) pin strips on SM-8800.
19. Current Outputs –(A~J)	Use a cable to connect currents output(-) on SM-102 to current input(-) pin strips on SM-8800.
20. S.P.S. Power Input	Use a AC cable to connect SPS AC input(SM-102) to SPS AC output port on rear panel of SM-8800).
21. Power Switch	Turns SM-102 on or off.
22. Line AC IN	Use a AC power cable to connect this input to your power source.

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.
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.**

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.

Mode3

Test Result	Setting
Pass	**Withdraw Pin manually/Switch test position automatically.**
Fail	**Withdraw Pin manually/Switch test position automatically.**

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

If test result is “FAIL”, Fail indicator light flash for 3 times and buzzer sound for 3 times. Pin is switched to right hand side automatically. User have to withdraw the left pin by pressing the withdraw pin button.

Mode4

Test Result	Setting
Pass	**Pin is withdraw automatically/Switch test position manually.**
Fail	**Pin is withdraw automatically/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. Pin will be withdraw automatically. User have to switch the test position manually by pressing switch button.

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.

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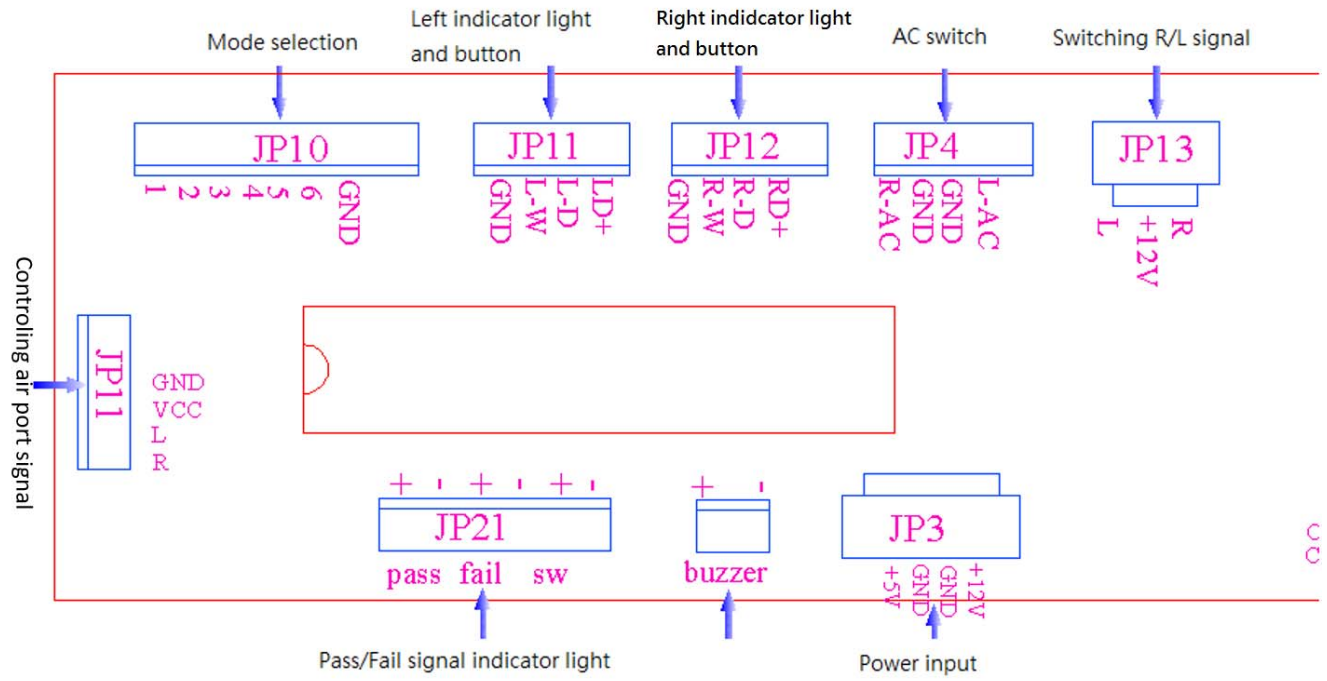
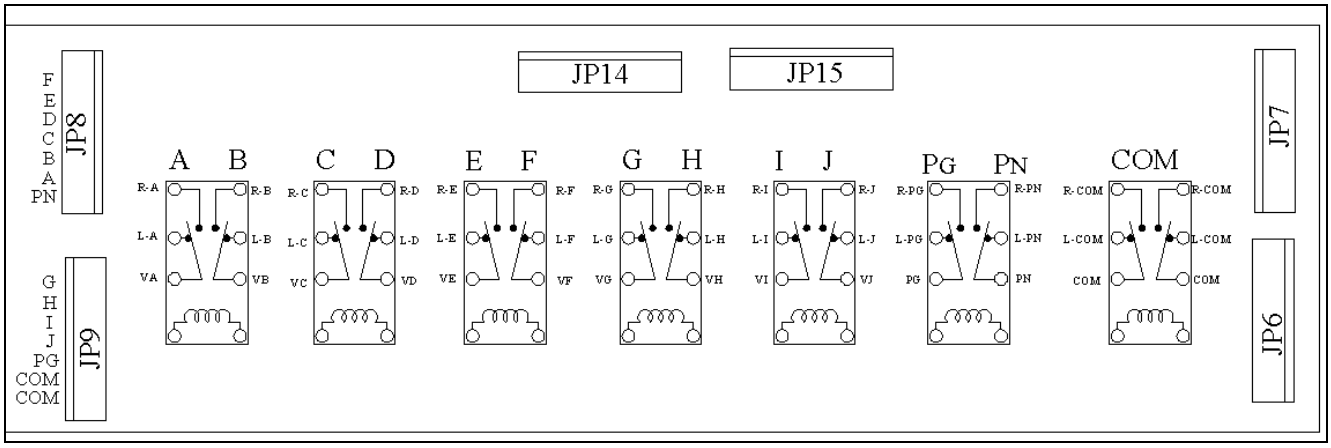
PCB Layout

Description of mode interface

1. Main Control Board(9010)





JP10:Selecting modes interface

JP11:Left indicator light and button interface(Front panel)

JP12:Right Indicator light and button(Front panel)

JP4:SPS input signal control interface

JP13:Switching Right/Left signal which connect current switching board: 左右切換信號，連接電流切換板。

JP11 Air port control signal:

JP21: Pass/Fail signal indicator light and switching button signal interface

JP2: Buzzer signal interface。

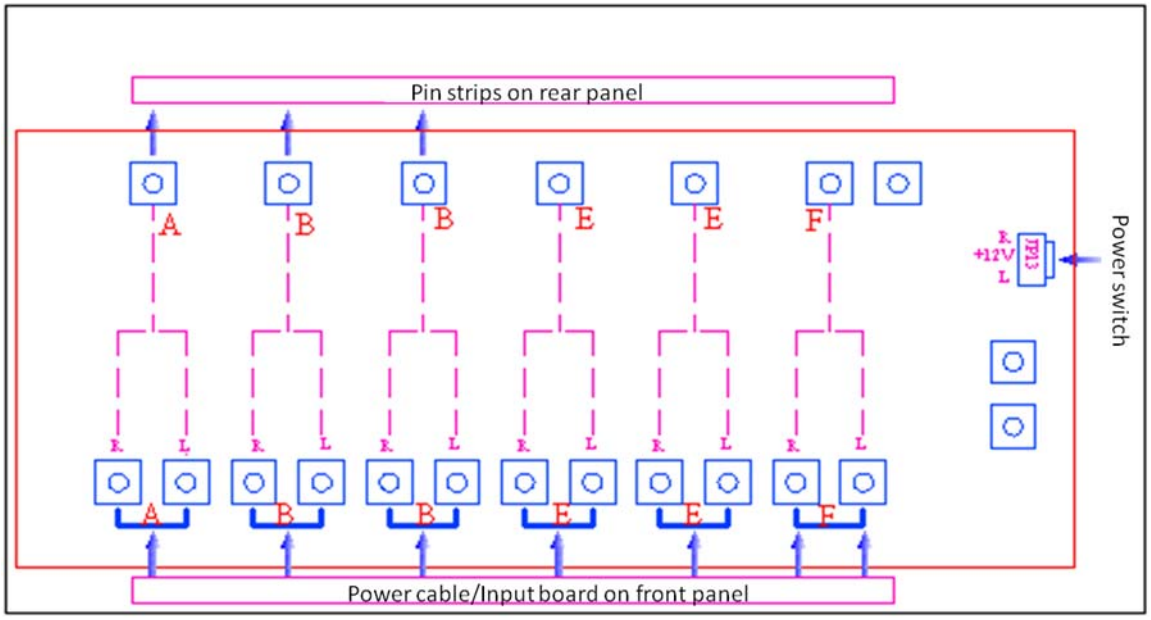
JP3: Power inputs(+5V/+12V)

JP14~JP15: Voltage signal interface。

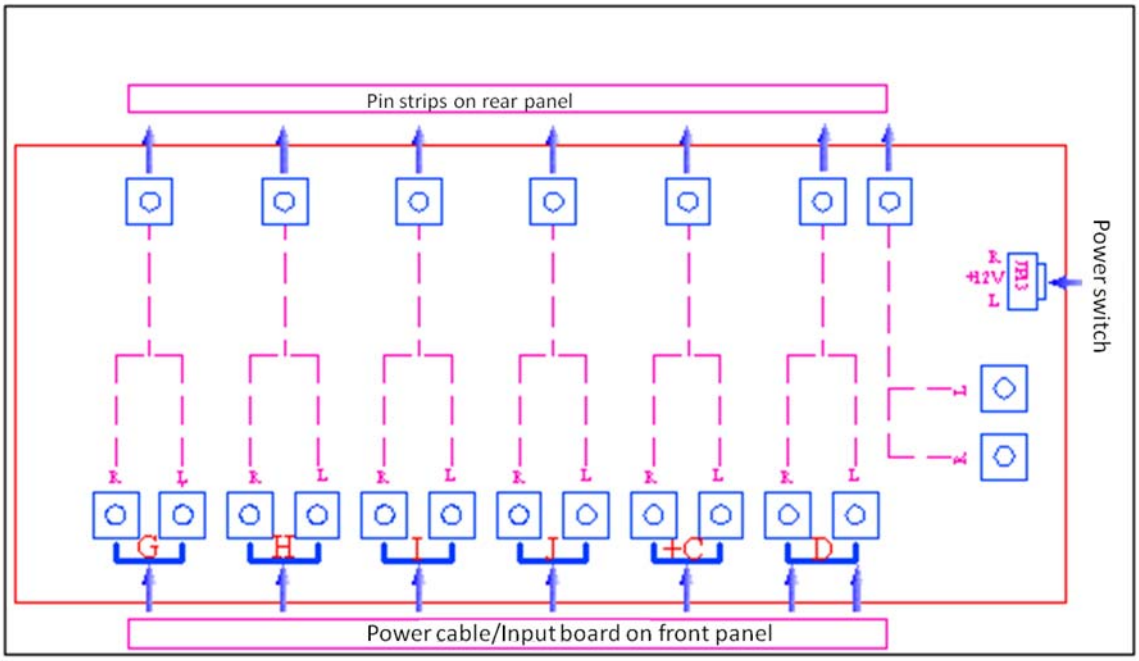
JP8~JP9: Right voltage signal interface

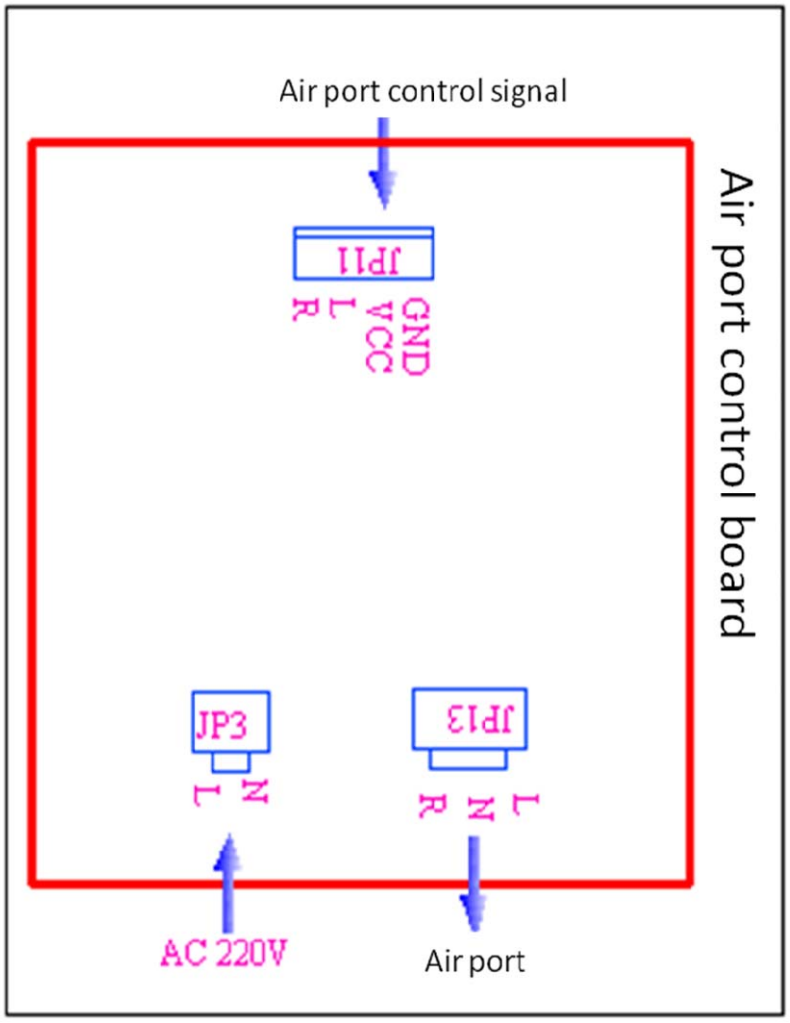
JP6~JP7: Left voltage signal interface

2. Current switching board(Top panel)

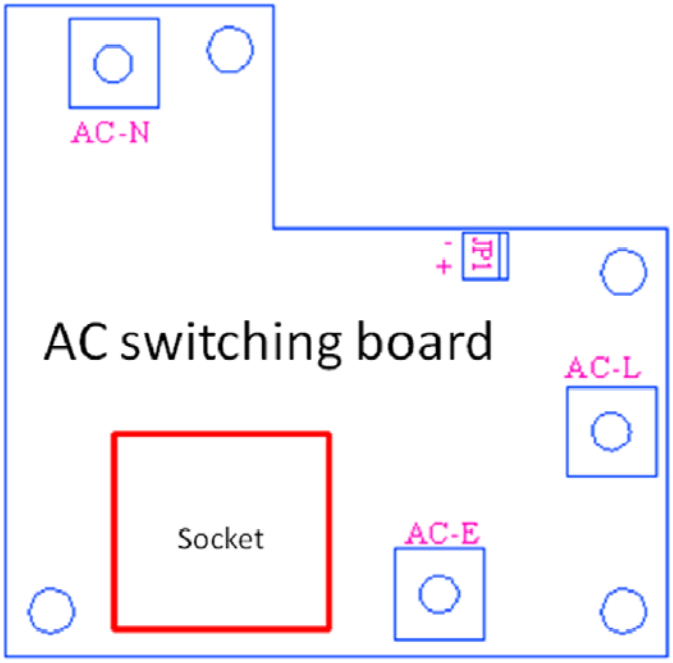


3. Current switching board(Bottom)



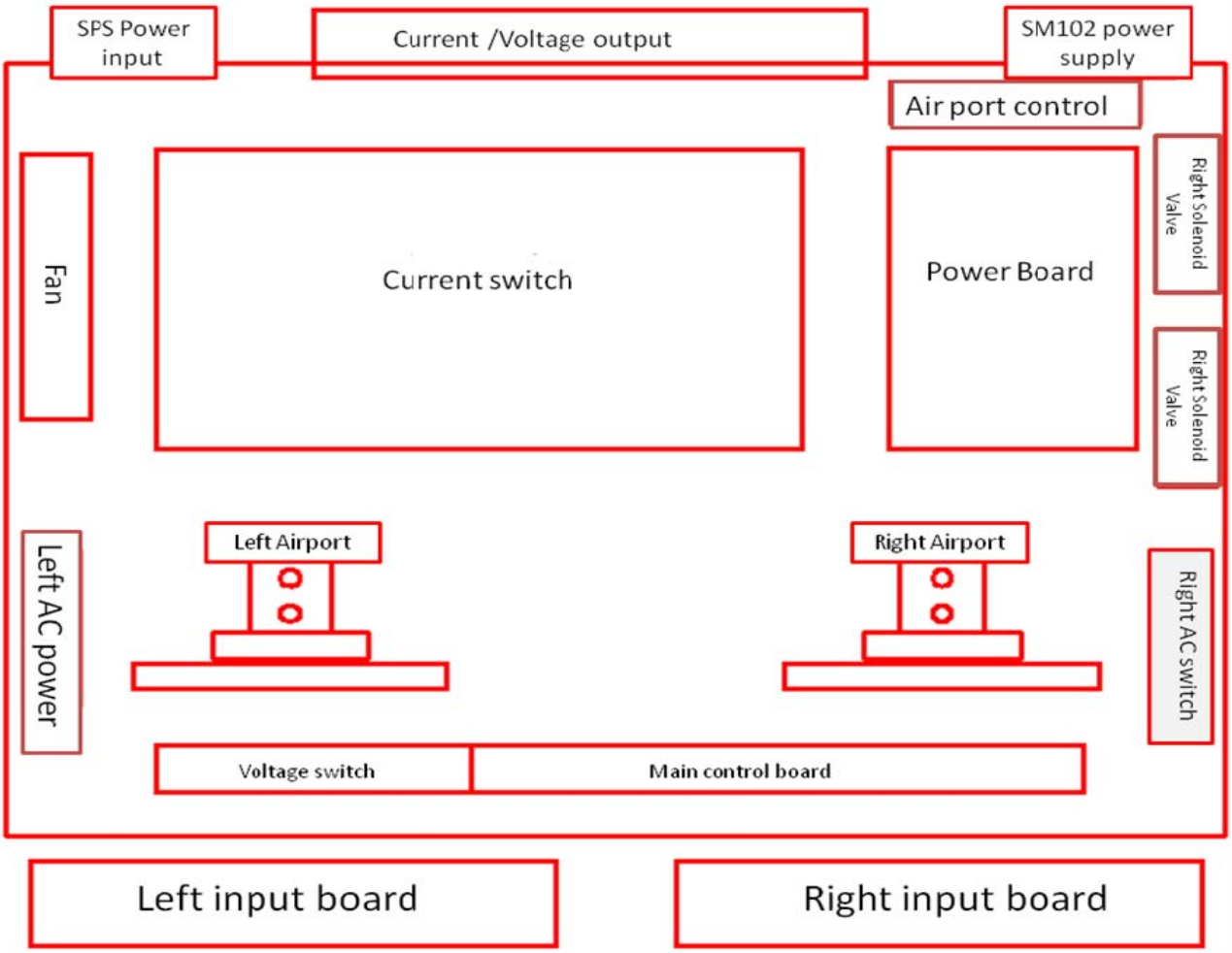


4. AC Output control board(Side panel)

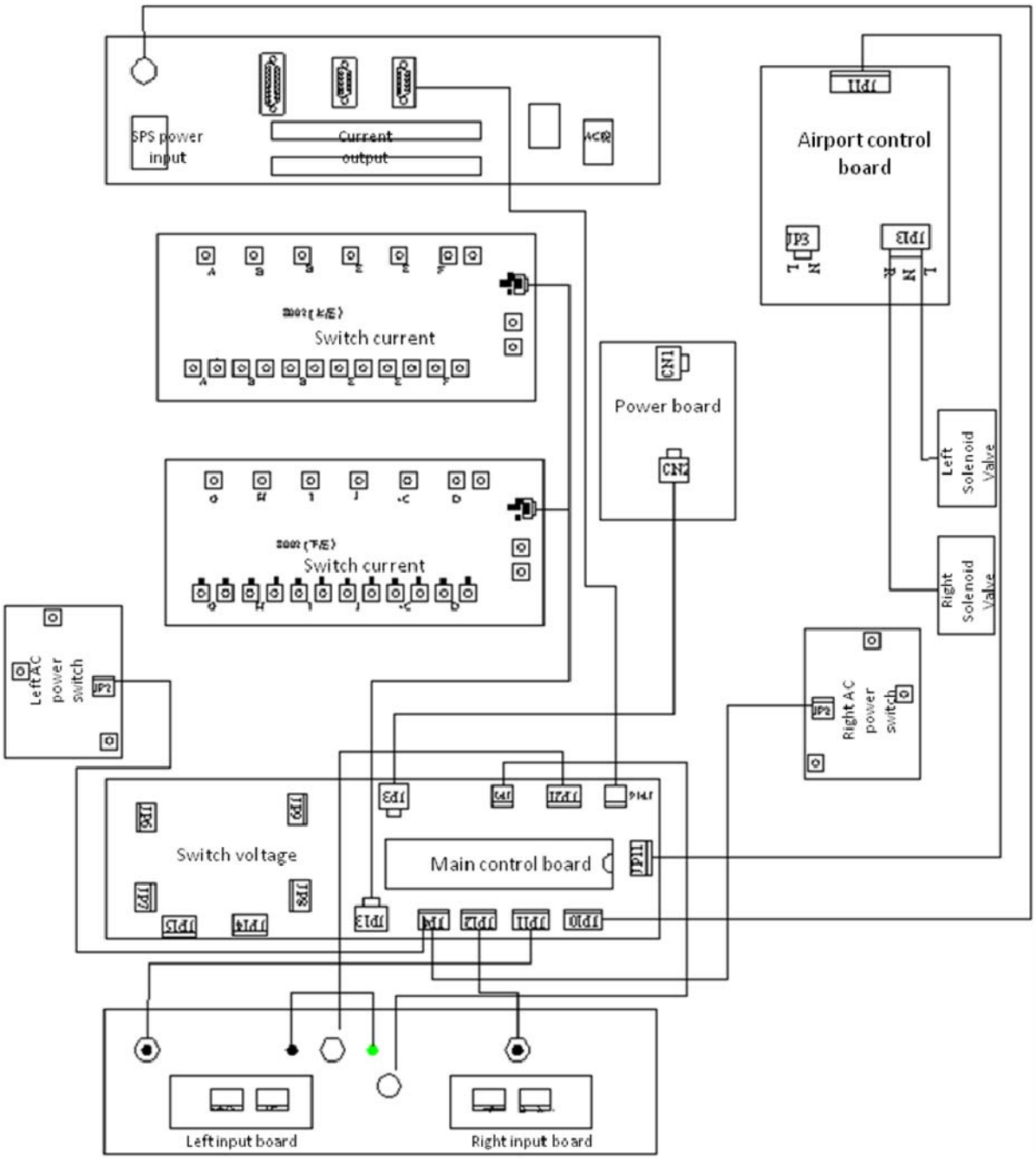


Layout

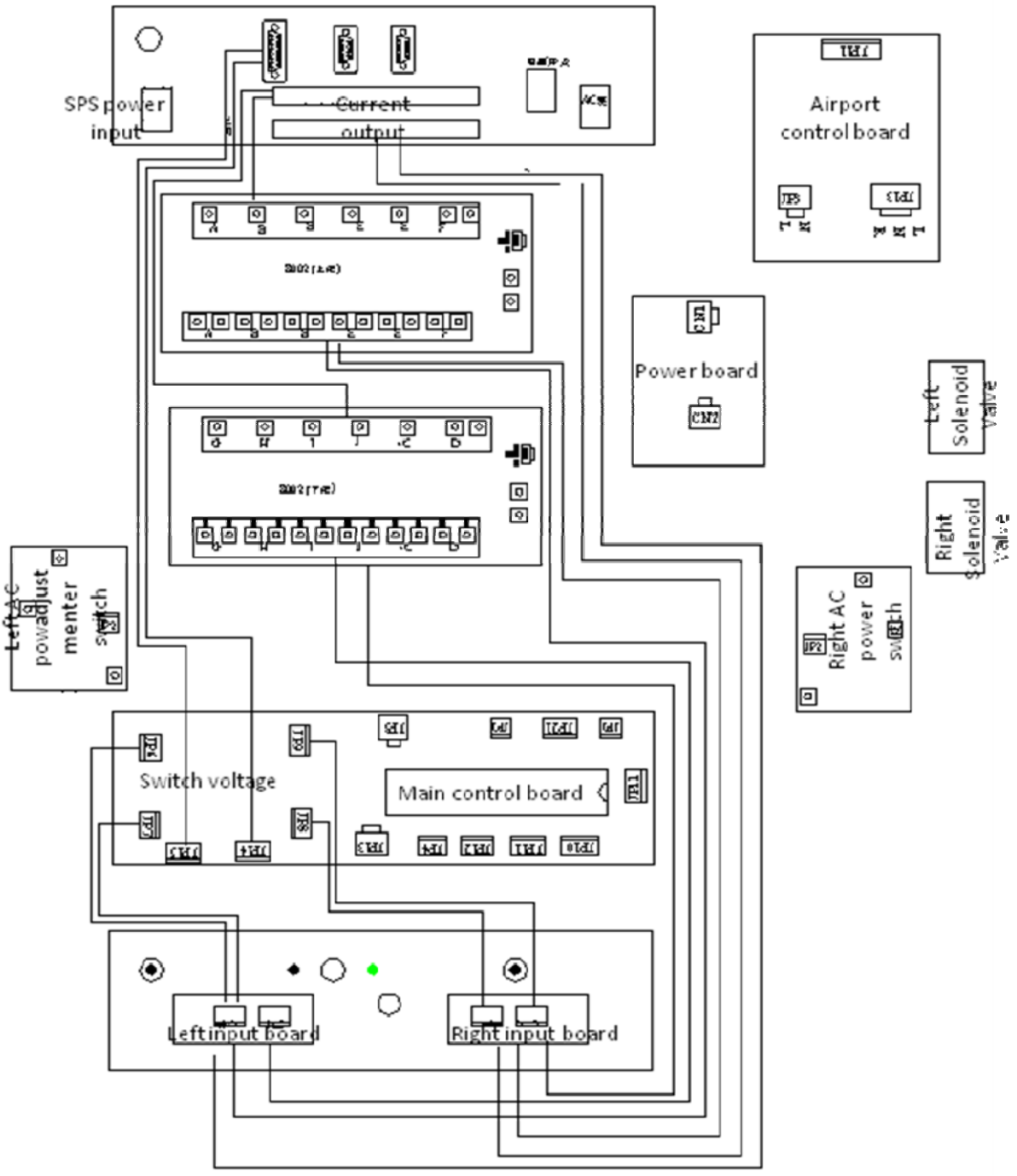
1. Entire Layout



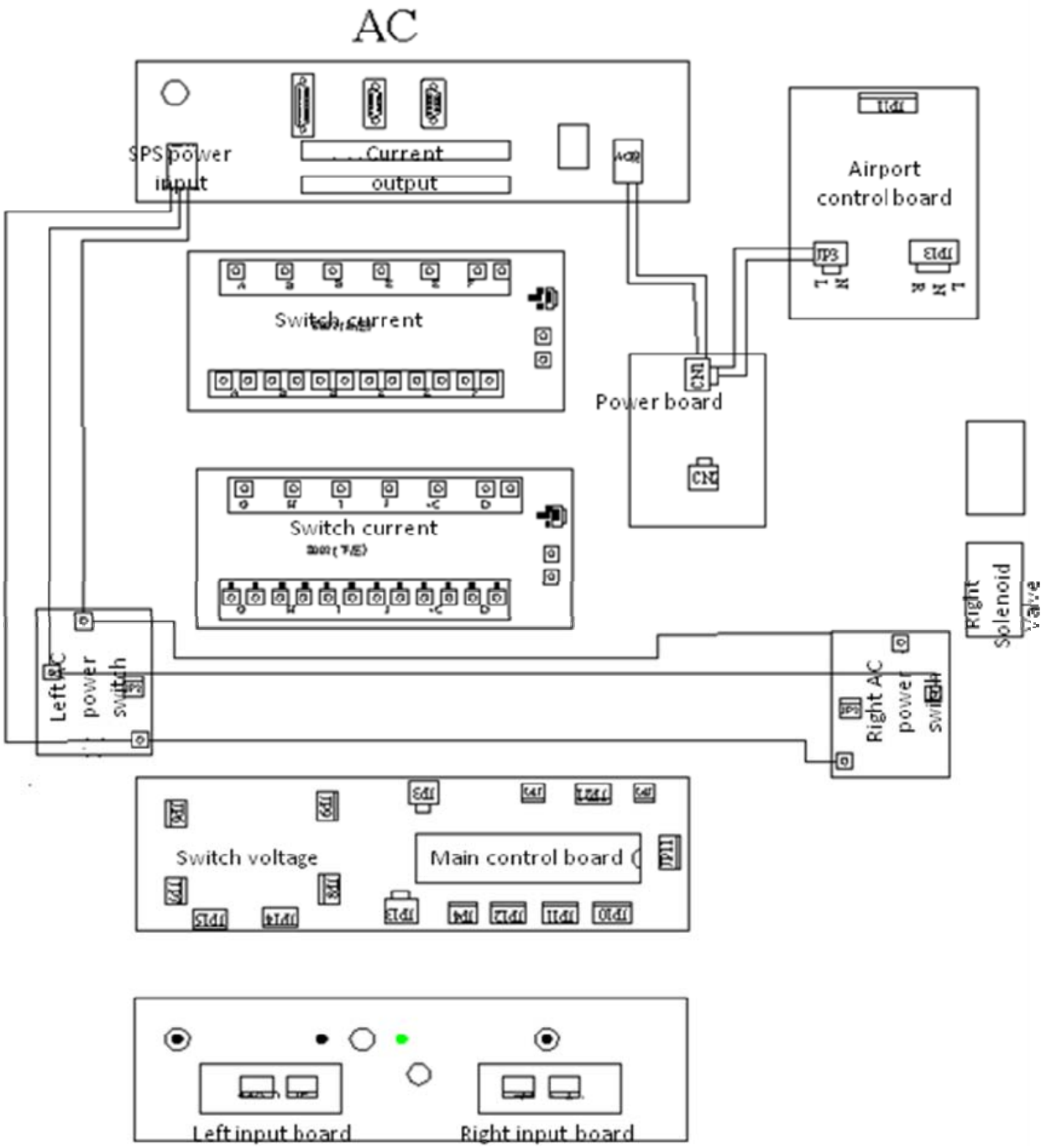
2. Control part Layout



3.Voltage/Current Layout

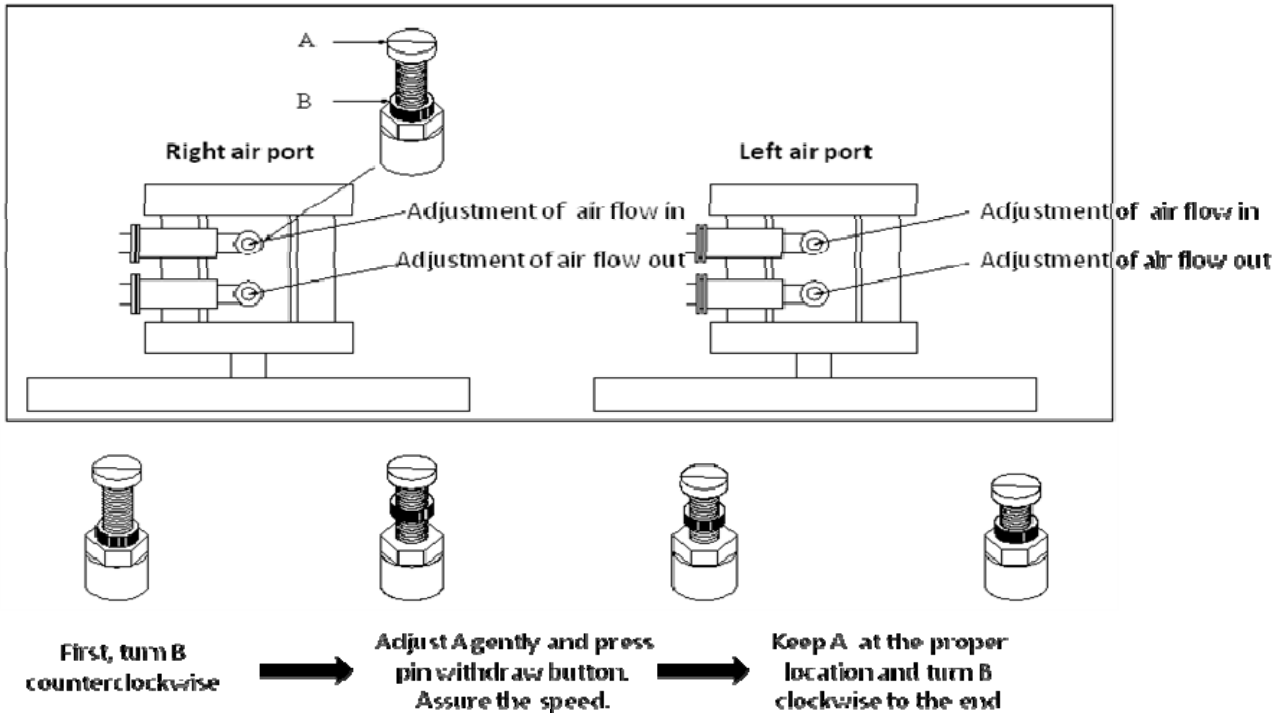


4. Voltage and Current Layout



5. **Cylinder Adjustment**

6.



***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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