

Automatic Tire Inflator

Operation Manual

Content

Automatic Tire Inflator.....	0
Preface:	1
一、 Requirements Of Installation	1
二、 Technical Parameters	2
三、 Exploded View Of Air Inflator.....	3
1、 AWS10、 AWF13、 AWS50、 AWF52	3
2、 AWS11、 AWF12、 AWS51、 AWF53.....	3
3、 ABS15、 ABF16、 ABS54、 ABF55	4
四、 Preparation Before Operation	4
五、 Buttons And LCD Screen Indications.....	5
1、 Buttons Indications:	5
2、 LCD Screen Indications	6
3、 Error Indications	6
4、 Graphical Indications of Operation Steps.....	7
六、 Conventional Operation.....	7
1、 Turn On, Turn Off:	7
2、 Conventional Inflating Procedure:	8
3、 OPS Procedure:	8
七、 System Parameter Settings:.....	9
1、 Setting Items:.....	9
2、 Pressure Unit Setting:	9
3、 OPS Pressure Setting:	10
4、 Default Pressure Of Turn on Setting:	10
5、 Max. Inflating Pressure Setting:	11
6、 Min. Inflating Pressure Setting:.....	11
7、 Manual/Automatic Mode Setting:.....	12
8、 Buzzer Status Setting:.....	12
9、 Air Source Mode Setting:.....	13
10、 Nitrogen Cleanness Times Setting:.....	13
11、 Inflating Times Query:.....	14
12、 Restore factory setting:	15
八、 Error Messages	15

Preface:

This device has low power consumption, no noise, no pollution, easy operation, stable performance, high accuracy. It can meet satisfaction of various type of tires and it's to be top products select by car repair industrial, car manufacturer, tire shops and 4s shops.

Our tyre air inflator can inflate the Nitrogen also, but doesn't have the function to generate the Nitrogen.

Please read the manual carefully before using, and avoid the damage caused by improperly use, the improper usage is not on the range of warranty. Dangerous situation will be happen due to improperly use. Wrong setting will lead to tire blast, please keep children and non-professional staff out of touching!

This equipment can be only inflated tire and don't use it as other purposes. Any unauthorized modifications and none tire inflation purposes are considered as incorrect operation. Supplier is not responsible for the damage and repair of improperly operation.

一、 Requirements Of Installation

- 1、 The air produced by compressor need to be filtered through oil and water. The filter must be checked periodically.
- 2、 The pressure of air compressor must be: $8.00-10\text{kg/cm}^2$
- 3、 Plug base must be put on the dry place, air compressor connect with inflator must be within 6 meters.

二、 Technical Parameters

1、 Technical Parameter (AWS10、AWF13、AWS11、AWF12、ABS15、ABF16)

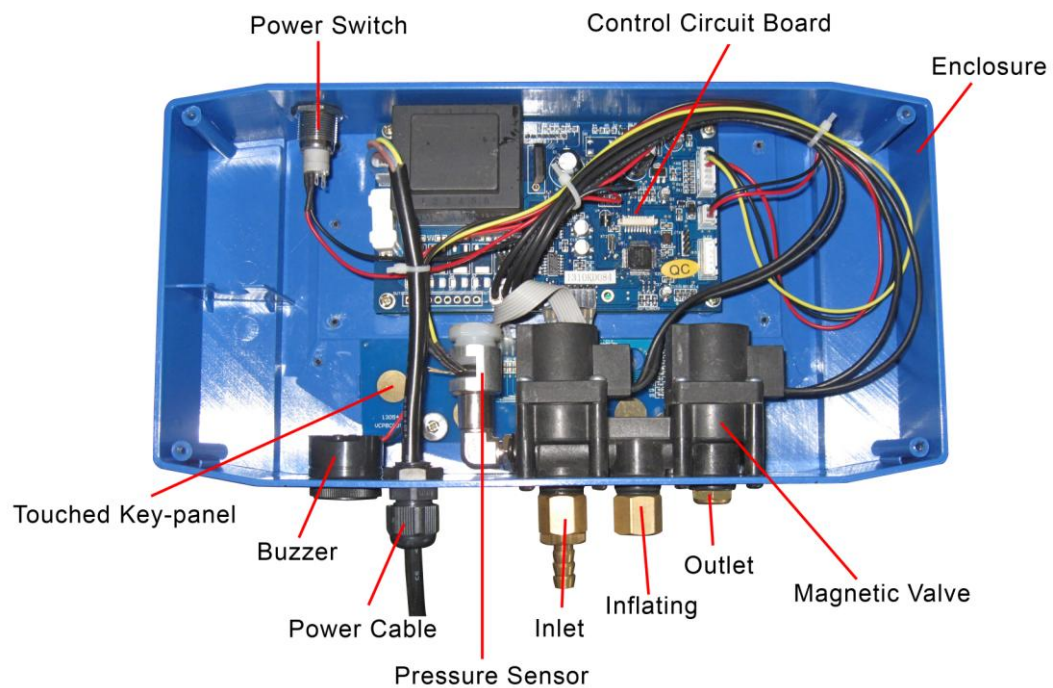
- 1) Power Supply: 100-240Vac 50/60Hz
- 2) Inlet Pressure: 8-10kg/cm²
- 3) Voltage: 230v 50/60Hz
- 4) IP Rated: IP54
- 5) Consumption: Max.18VA
- 6) Max. Inflating Pressure: 10.0 bar /999 kpa/145 psi
- 7) Suggested Inlet Pressure of Air Compressor: above setting pressure 44psi, 300kPa , 3bar
- 8) Pressure Unit: psi, kPa, bar
- 9) Max. Tolerance: <0.08 bar/ 8 kpa (1.16 psi)
- 10) Working Temperature: -20℃ to 70℃, -4°F to 158°F
- 11) Standard Usage: EC magnetic compatible
(89/336/EEC) Version 93/31/EEC
EN61000-6-3(2001),EN61000-6-2(1999)
EN Low Voltage Indication (72/23EEC) BS EN 61010-1

2、 Technical Parameter (AWS50、AWF52、AWS51、AWF53、ABS54、ABF55)

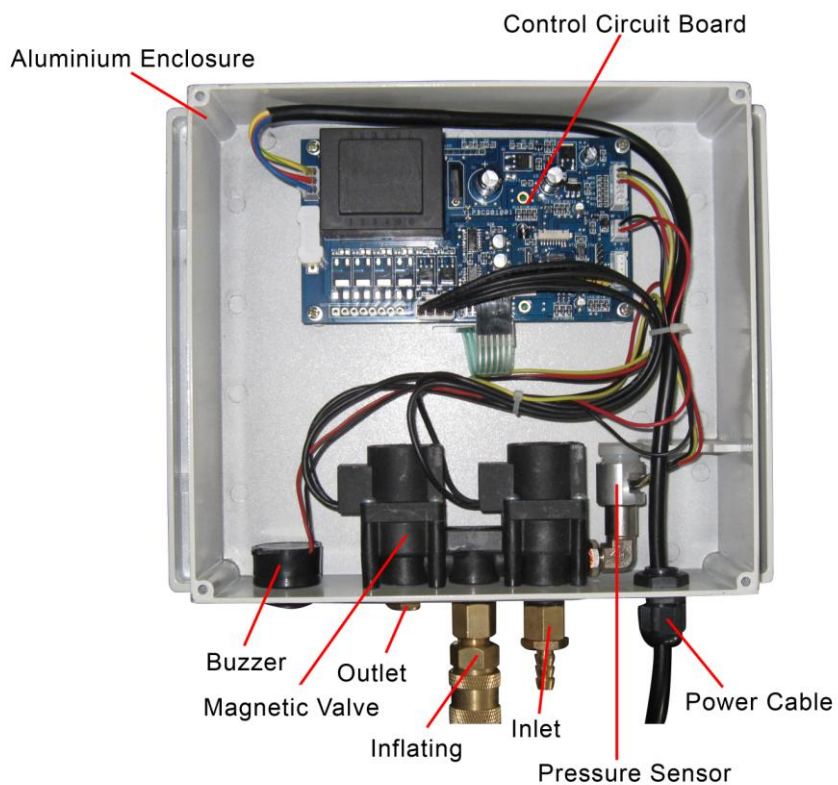
- 1) Power Supply: 100-240Vac 50/60Hz
- 2) Inlet Pressure: 8-16kg/cm²
- 3) Voltage: 230v 50/60Hz
- 4) IP Rated: IP54
- 5) Consumption: Max.18VA
- 6) Max. Inflating Pressure: 16.0 bar /1600kpa/232 psi
- 7) Suggested Inlet Pressure of Air Compressor: above setting pressure 44psi, 300kPa , 3bar
- 8) Pressure Unit: psi, kPa, bar
- 9) Max. Tolerance: <0.08 bar/ 8 kpa (1.16 psi)
- 10) Working Temperature: -20℃ to 70℃, -4°F to 158°F
- 11) Standard Usage: EC magnetic compatible
(89/336/EEC) Version 93/31/EEC
EN61000-6-3(2001),EN61000-6-2(1999)
EN Low Voltage Indication (72/23EEC) BS EN 61010-1

三、Exploded View Of Air Inflator

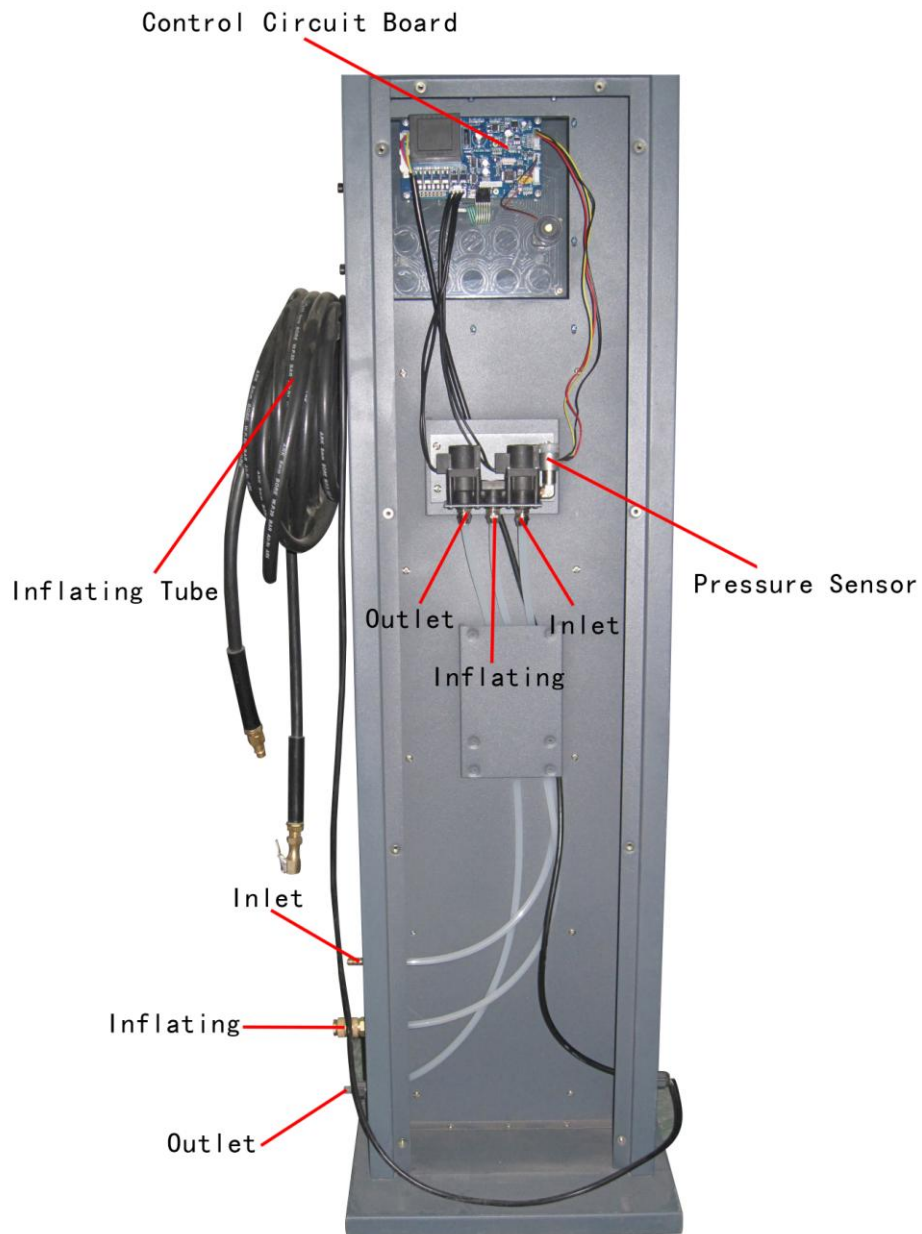
1、AWS10、AWF13、AWS50、AWF52



2、AWS11、AWF12、AWS51、AWF53



3、ABS15、ABF16、ABS54、ABF55



四、Preparation Before Operation

- 1、Connect power.
- 2、Connect air compressor.
- 3、Press turn on button on the panel, LCD screen lightens.
- 4、Machine can be used now.

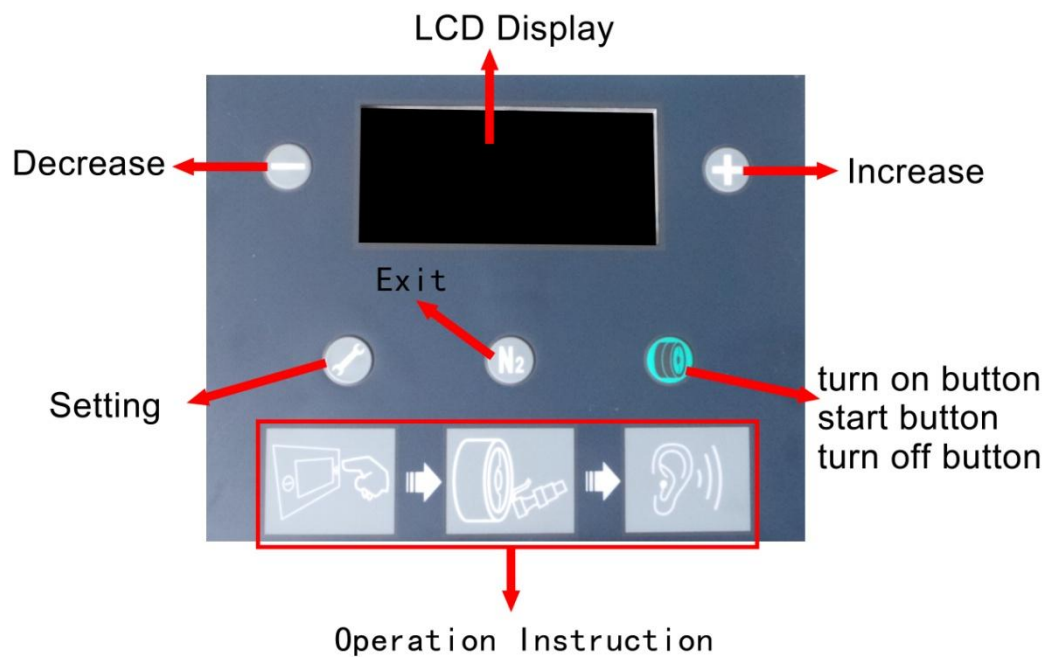
五、Buttons And LCD Screen Indications

1、Buttons Indications:

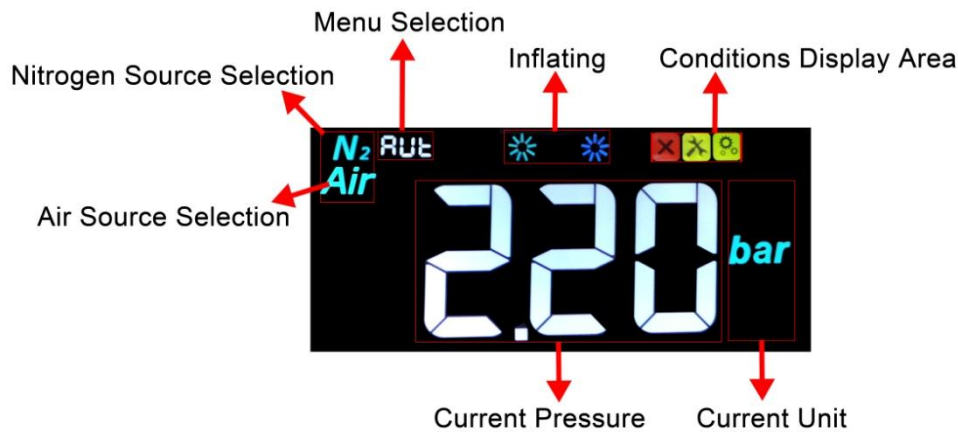
1) AWS10、AWF13、AWS50、AWF52、ABS15、ABF16



2) AWS11、AWF12、AWS51、AWF53、ABS54、ABF55

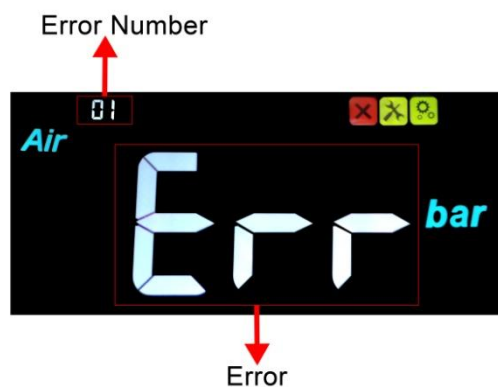


2、LCD Screen Indications



Air	Air Source	OPS	Over-pressure Inflation Setting
N₂	Nitrogen Source	UN :	Unit Selection
	Inflating	RUE	Manual/Automatic Selection
	Forbid Nitrogen Cleanness	GRS	Air Source Selection
	Settings	CLR	Nitrogen Cleanness Times Setting
	Automatic Inflation	HPS	Maximum Inflation Pressure Setting
	Manual Inflation	LPS	Minimum Inflation Pressure Setting
psi	psi	SOV	Voice Setting
bar	bar	DEF	Default Pressure Setting
kPa	kPa	COU	Inflation Times Setting
Kg/cm²	Kg/cm ²	REC	Factory Settings

3、Error Indications



01	Pressure Sensor Fault 1—Can't calibrate to Zero
02	Pressure Sensor Fault 2—Pressure measurement unstable
03	Inflation Pressure Increase Too Slow
04	Inflation Pressure Increase Too Fast
05	Deflation Pressure Decrease Too Fast
06	Deflation Pressure Decrease Too Slow
07	FLASH Memory Fault
08	Pressure Sensor Power Supply Fault

4、 Graphical Indications of Operation Steps



Set inflation pressure



Connect the inflator chuck with tire's valve



Inflating finished when hear 3 times “beep”.

六、 Conventional Operation

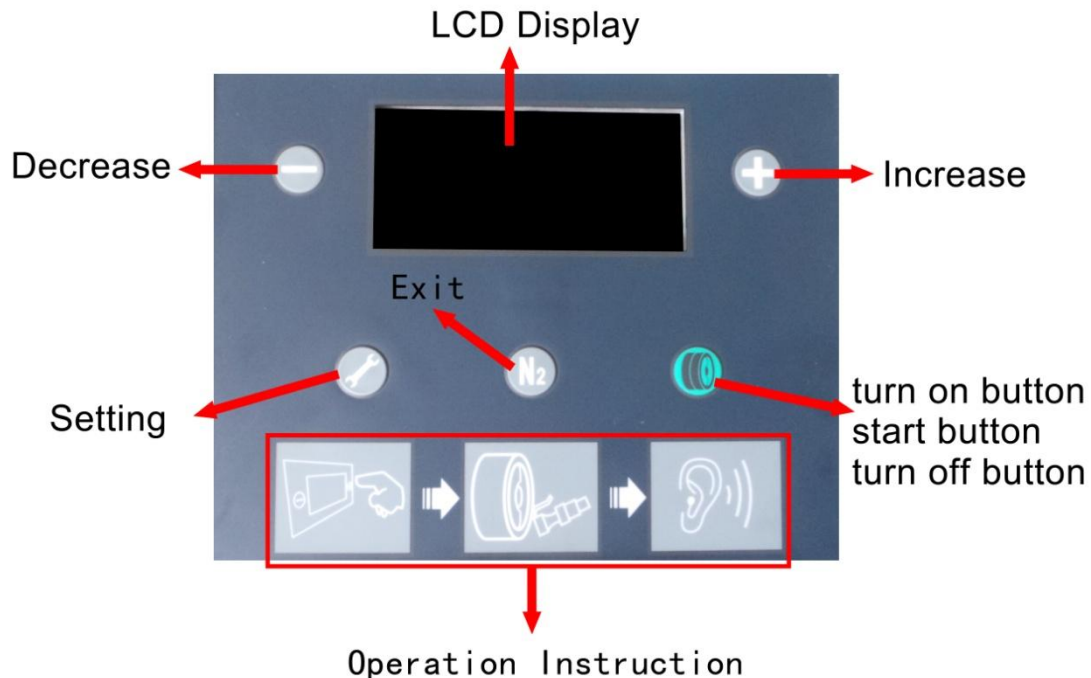
1、 Turn On, Turn Off:

1) Press the turn on/off button on the top of the air inflator to turn on or turn off the machine. See below photo, it is suitable for model AWS10、AWF13、AWS50、AWF52.



turn on button
turn off button

2) Turn on/off and start to inflate button is the same one, see below photo. It is suitable for model AWS11、AWF12、AWS51、AWF53、ABS54、ABF55. When want to turn off the machine, hold on pressing the button for 2 seconds, the LCD will show “OFF”.



2、Conventional Inflating Procedure:

Set the inflating pressure by press “Decrease” and “Increase” button. Then connect the inflating chuck with cranked tire valve, if the tire pressure is above 0.4bar, it will begin to inflate automatically. While a sound will be noted by buzzer and the current pressure values will be shown on the screen flickeringly means the air inflating finished. Take out the inflating chuck.






If the tire pressure is less than 0.4bar, it need to press “start button” to begin to inflate. While a sound will be noted by buzzer and the current pressure values will be shown on the screen flickeringly means the air inflating finished. Take out the inflating chuck.

3、OPS Procedure:

If the tire is the first time to be inflated, it should choose OPS function. The OPS max. values is 2.0bar. It means if the OPS value set as 1.0bar, and the inflating pressure set as 2.0bar, the machine will inflate to 3.0bar, and then deflate to 2.0bar.

- (1) Set OPS value.
- (2) Connect tire.
- (3) Press “Start Button”.
- (4) Buzzer alarm when inflating is over.

七、System Parameter Settings:

When air inflator does not inflate, press setting button "", the air inflator display "-----". Then press "", "", "" buttons enter setting item. Press " to exit.

1、Setting Items:

F01: Pressure unit settings:

Selectable: psi, bar, kPa, kg/m^2 .

0: bar,

1: psi,

2: kpa,

3: kg/m^2

F02: OPS pressure settings:

F03: Default pressure when turn on: set the default target pressure of turn on.

F04: Max. inflating pressure setting: Max. inflating pressure is 12bar.

F05: Min. inflating pressure setting: Min. inflating pressure is 0.5bar.

F06: Manual/automatical mode setting: 0 is manually mode, 1 is automatically mode.

F07: Buzzer setting: 0 means close buzzer, 1 means open buzzer.

F08: Air source mode setting: 0 is air source mode, 1 is nitrogen source mode.

F09: Nitrogen cleanness times setting: 0-5 means the cleanness times.

F10: Inflating times query: check the equipment inflating times.



F11: Restore factory setting: restore all setting items to factory setting status.


2、Pressure Unit Setting:

1) Enter setting mode.

2) Press " or " until the LCD screen display "F01".

3) Press " to confirm.







4) Press " or " to adjust the number on the LCD screen.
(0: bar, 1: psi, 2: kpa, 3: kg/m^2)

5) Press " to save and exit the setting mode.



3、OPS Pressure Setting:




Max. OPS pressure is 2.0 bar, default pressure set as 0.




- 1) Enter setting mode.
- 2) Press  or  until the LCD screen display “F02”.
- 3) Press  to confirm.
- 4) Press  or  to adjust values, the range is 0--2.0bar.
- 5) Press  to save and exit the setting mode.



4、Default Pressure Of Turn on Setting:

Default pressure of turn on means the common inflating pressure displayed when turn on the machine.







- 1) Enter setting mode.
- 2) Press  or  until the LCD screen display “F03” .
- 3) Press  to confirm.

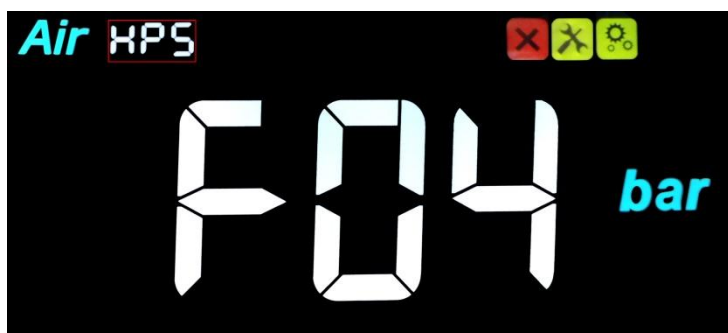
- 4) Press  or  to adjust the pressure values that operator always use.
- 5) Press  to save and exit the setting mode.



5、Max. Inflating Pressure Setting:



To ensure safe inflating, the operator can set a max. inflating pressure values, thus to avoid to inflate the inappropriate pressure due to misoperation.





- 1) Enter setting mode.
- 2) Press  or  until the LCD screen display “F04”.
- 3) Press  to confirm.
- 4) Press  or  to adjust the max. pressure values that operator need. The max. inflating pressure is 12bar.
- 5) Press  to save and exit the setting mode.



6、Min. Inflating Pressure Setting:

Min. inflating pressure means to set the pressure that allow the machine can begin to inflate automatically when start. The min. pressure is 0.4bar.







- 1) Enter setting mode.
- 2) Press  or  until the LCD screen display “F05”.

- 3) Press  to confirm.
- 4) Press  or  to adjust the min. pressure values that operator need.
- 5) Press  to save and exit the setting mode.



7、Manual/Automatic Mode Setting:



Operator can set the tire inflating mode is manually or automatically.





- 1) Enter setting mode.
- 2) Press  or  until LCD screen display “F06”.
- 3) Press  to confirm.
- 4) Press  or  to adjust the number. 0 is manual mode, 1 is automatic mode.
- 5) Press  to save and exit the setting mode.



8、Buzzer Status Setting:

Operator can set buzzer alarm function.







- 1) Enter setting mode.
- 2) Press  or  until LCD screen display “F07”..

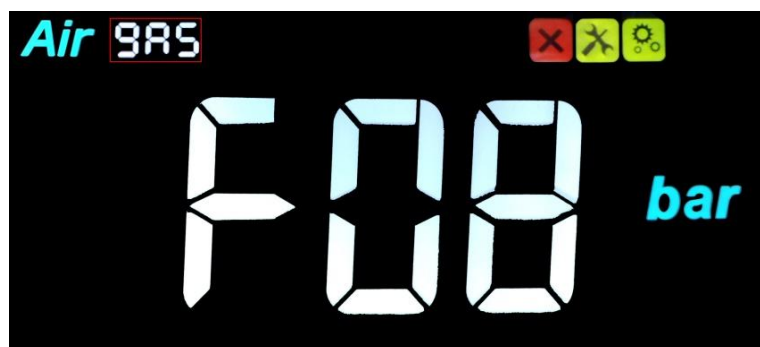
- 3) Press  to confirm.
- 4) Press  or  to adjust values. 0: close buzzer. 1: open buzzer.
- 5) Press  to save and exit the setting mode.



9、Air Source Mode Setting:

Our tire inflator can choose different air source to inflate the tire, normally choose air and nitrogen.







- 1) Enter setting mode.
- 2) Press  or  until LCD screen display “F08” .
- 3) Press  to confirm.
- 4) Press  or  to adjust values. 0: air source mode. 1: nitrogen source mode.
- 5) Press  to save and exit the setting mode.



10、Nitrogen Cleanness Times Setting:

Our air inflator can connect nitrogen source to inflate, and also has nitrogen cleanness function that guarantee the maximum nitrogen purity in the tire. The default cleanness time is 0. When the cleanness time set as 0, it





means equipment doesn't launch cleanness function. Cleanness times can set from 0-5 times.

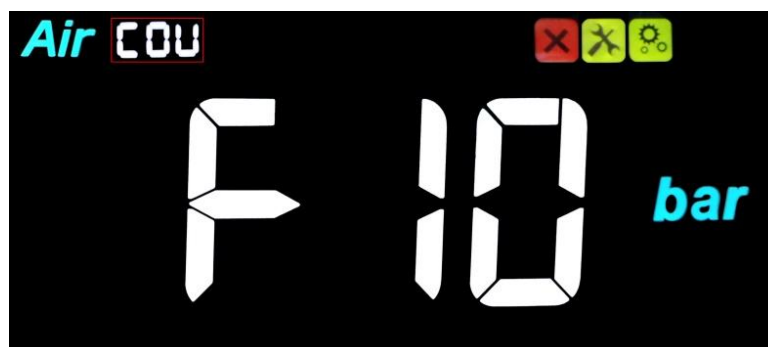
- 1) Enter setting mode.
- 2) Press  or  until LCD screen display "F09".
- 3) Press  to confirm.
- 4) Press  or  to adjust cleanness times. The times from 0 to 5.
- 5) Press  to save and exit the setting mode.



11、Inflating Times Query:





Our air inflator can save tire inflating times. Operator can query the total inflating times from this function. And the inflating times will not clear to 0 due to restore to factory setting.

- 1) Enter setting mode.
- 2) Press  or  until LCD screen display "F10".
- 3) Press  to confirm.
- 4) Screen display the inflating times.
- 5) Press  to exit setting mode.



12、Restore factory setting:

Restore all the setting items to factory status.

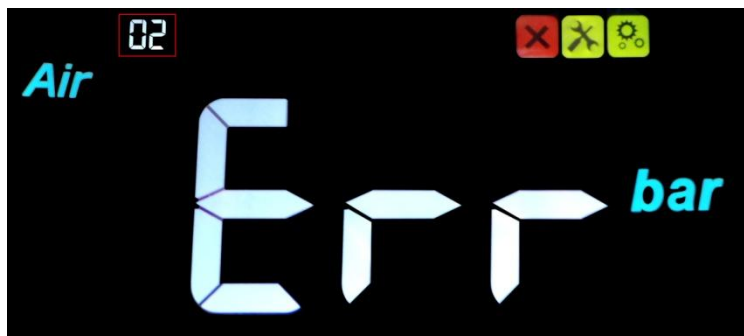
- 1) Enter setting mode.
- 2) Press  or  until LCD screen display "F11".
- 3) Press  to confirm.
- 4) Press  to exit the setting mode.

八、Error Messages

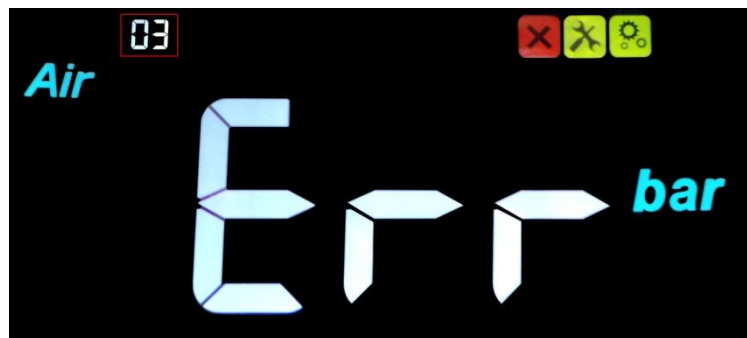
E01. Can't calibrate to 0: please check if inflating connector is connected with tire when machine start up. If yes, please remove the connector and re-start. Otherwise, it could be sensor fault or pipe is blocked.



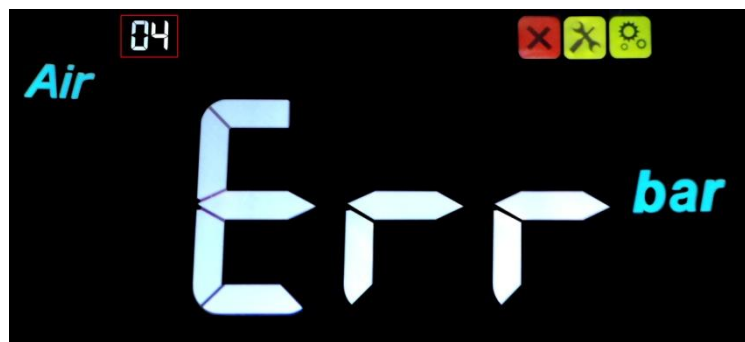
E02. Inflating pressure sensor fault: please contact professional service person.



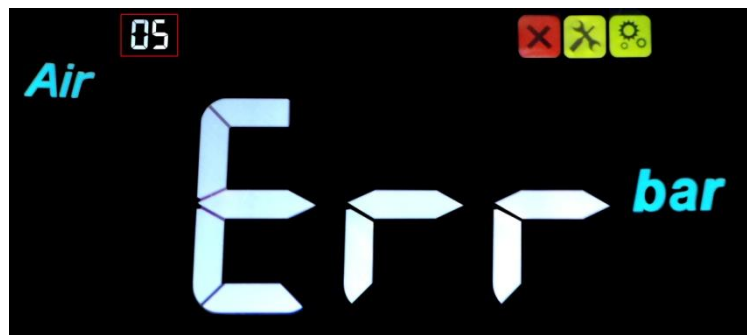
E03. Inflating pressure increase too slow: Please check compressor output system or damage of pipe and check if the output pressure is too low or pipe connection is correct.



E04. Inflating pressure increase too fast: please check if pipe is blocked.



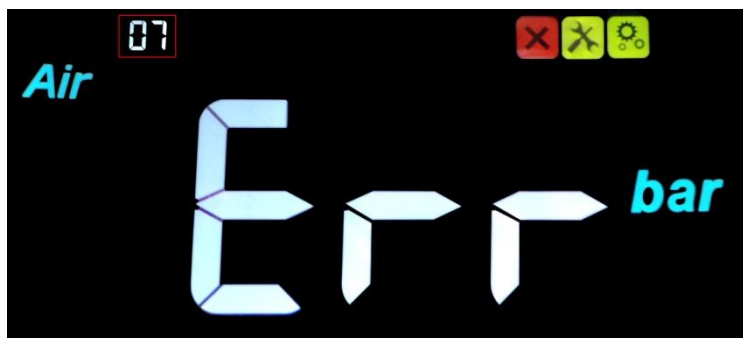
E05. Inflating pressure decrease too fast: please check pipe connection.



E06. Inflating pressure decrease too slow: please check pipe connection.



E07. Store FLASH fault: main control board damaged, please contact professional service person.



E08. Pressure sensor power fault: main control board damaged, please contact professional service person.

