Inflator Owner’s Manual

E-010-OPS-N

Please read this manual before carrying out any assembly or service procedures.

1.0 Introduction

1.1 This Manual

Congratulation on selecting the tire Inflation Equipment.This equipment has a number of unique features that are explained in this manual.

Throughout the manual the following symbols will be used, this information is for your safety and to prevent damage to this product.

CAUTION
The hazard or unsafe practice could result in minor injury.

WARNING
The hazard or unsafe practice could result in severe injury or death.

1.2 General Specifications *

Power Requirement	100-240Vac 50/60Hz
Operating Temperature	-20℃ to 70℃, -4°F to 158°F
Max Inlet Air Supply	145psi, 1000kPa, 10bar
Recommended Inlet Supply Pressure	44 psi, 300kPa or 3 bar above the maximum set pressure of the unit.
Operating Pressure	Minimum 5 psi, 35 kPa, 0.3 bar Maximum 145 psi, 1000 kPa, 10.0 bar
Accuracy	+/-1 psi, 7 kPa, 0.07 bar
Display Increments	1 psi, 5 kPa, 0.1 bar
Units of Measurement	psi, kPa, bar

***Note:** Specifications may vary for non-standard equipment. Contact service agent for further information.

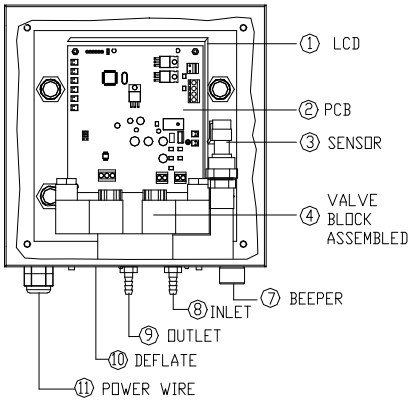
2.0 Assembly

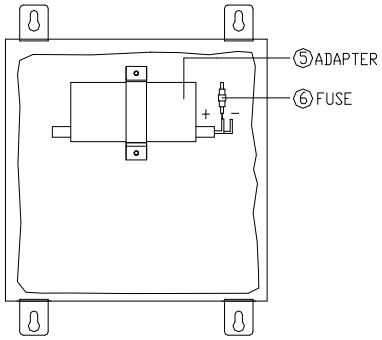
1. Unpack the unit.

Description	**Quantity**
Control Panel	1
Hose Ass,Outlet c/w Open Type Chuck	1
Hook	1

2. Hold the unit up and mark where the four (4) holes are to be drilled.

3. Secure the unit using suitable fasteners.





3.0 Preparation for Use

1.Connect the compressed Air to the unit.

2.Connect the power supply.Press and hold the power on switch to power up the unit.The equipment is now ready to use.

WARNING

To avoid the risk of personal injury, especially to the eyes, face or skin **DO NOT** direct the Air stream at any person/s.

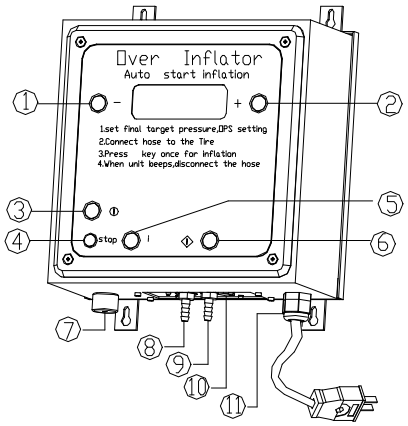
This equipment is not intended for use by children.

CAUTION

To avoid equipment damage, never exceed the maximum inlet pressure. The compressed Air supply must be filtered by 40 micron filter supplied separately

4.0 Control Panel

4.1 Switch and Control Functions



1. (−)：Reduce final target pressure
2. (+)：Increase final pressure
3. **NO**
4. NO
5. **"OPS" or (i)：** Set Over Pressure (OPS)
6. **"FILL" or (◇)：** Inflation/Deflation start (Save OPS setting and exit)
7. Beeper
8. Inlet
9. Outlet:To tire
10. Deflate
11. Power wire

5.0 Operation

This unit includes the Over Pressure **(OPS)** functions.

To permit selective use of the **"FILL" or (◇)** key, the automatic start is disabled when OPS setting is greater than zero.

To enable automatic start, set OPS setting to zero.

Over Pressure Setting (OPS)

To set the OPS value, press the **"OPS" or (i)** key. Display will flash “OPS” and the set value alternately. Press the (+) or (−) keys to change the OPS setting. Save your selection by

pressing the **"FILL" or (**  **)** key. The OPS setting can be changed again whenever required.

To inflate without OPS, set the OPS value to zero.

The OPS value adds to the final target pressure setting to give the Over Pressure. For example: A final target of 32 psi, 220 kPa or 2.2 bar with an OPS setting of 16 psi, 110 kPa or 1.1 bar gives a sum of 48 psi, 330 kPa or 3.3 bar. This sum of 48 psi, 330 kPa or 3.3 bar is the Over Pressure setting for the tire. Using this example, the operation is as follows:

Press the **"FILL" or (**  **)** key momentarily. Inflation will commence and the display will flash the sum pressure value (48 psi, 330 kPa or 3.3 bar) then revert to displaying the actual tire pressure. Tire will inflate to the sum value, beep twice and deflate to the final target pressure.

To prevent accidental use of OPS function, the OPS setting is not persistent after power down.

WARNING
When using the OPS function, the sum pressure must not exceed the tire manufacturers maximum inflation pressure.

5.0.1 Topping Up of Air

To top up tire that have previously been inflated with Air, OPS should be set to zero.

1. Set the desired pressure, refer to Section 4.1 for the function of each Switch.

2. Connect the hose to the tire, ensure the hose is connected securely. Air leaks will cause a error message to be displayed, refer to Section 6.0.

3. The pressure in the tire will be displayed.

4. The unit will inflate or deflate the tire to the set pressure. Periodically the process will stop and display the pressure in the tire.

5. If the pressure in the tire is lower than 5 psi, 40 kPa or 0.4 bar, the process will not commence

Until the **"FILL" or (**  **)** key is pressed, refer Section 4.1.

6. The scroll bar will indicate that the unit is inflating or deflating.

7. When the set pressure is reached the display will flash and the unit will beep five (5) times. This will continue until the hose is disconnected, during this time the keypad will be disabled.

5.0.2 Air Filling of the New Tire

1. Set the final target pressure,OPS setting.

2. Connect the hose to the tire.

3. Press the **"FILL" or** () key momentarily.

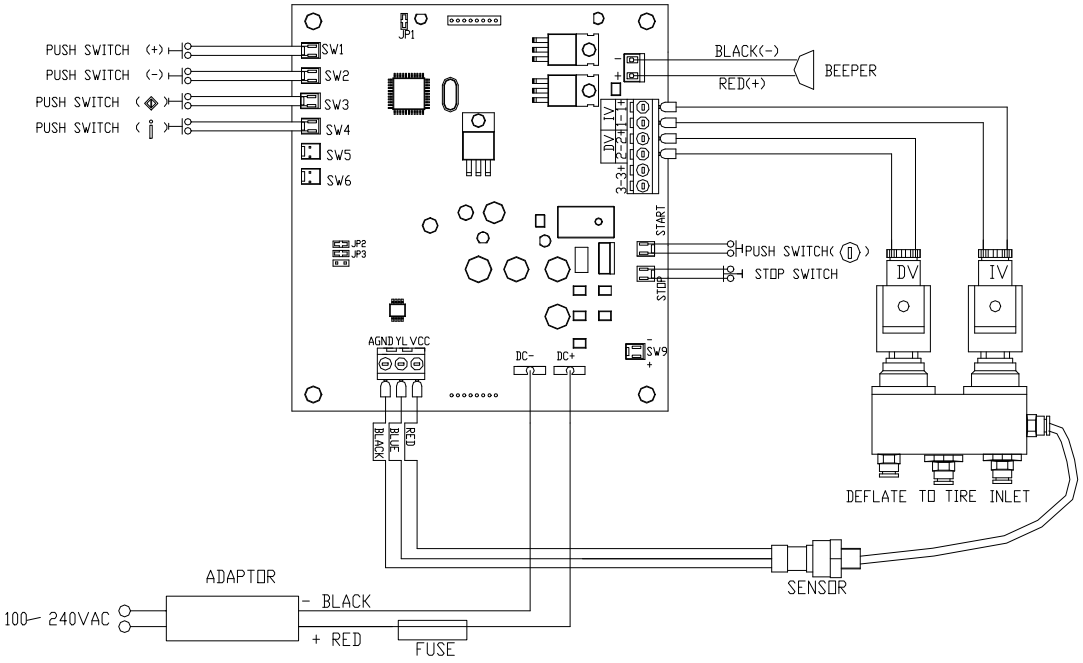
4. When the inflation cycle is completed, the unit beeps and the target pressure flashes in the display.

5. Disconnect the hose.

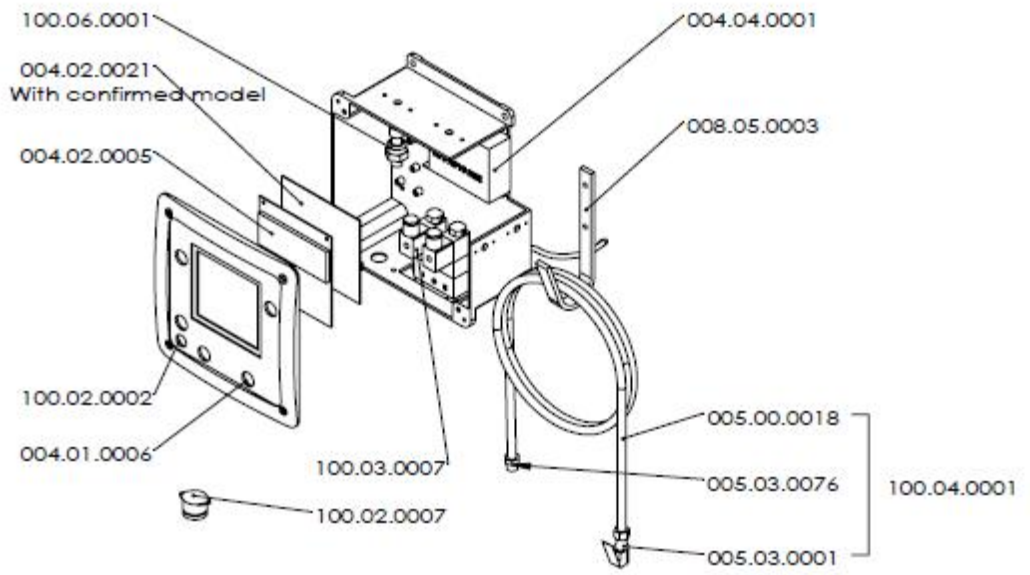
6.0 Troubleshooting

PROBLEM	**POSSIBLE CAUSE**	**SOLUTION**
No display.	No power supply	Check power supply
The unit deflates very slowly.	The deflate tubing is blocked	Remove and clean the plug.
The unit inflates very slowly.	Low or nil supply pressure.	Check the supply pressure.
The unit no longer beeps.	The beeper is damaged.	Replace the beeper.
ERROR CODES		
ER1	Faulty PCB.	Replace PCB.
ER2	Faulty hose connector.	Replace the hose connector.
ER3	Low or nil supply pressure.	Check the supply pressure.
ER4	Calibration Error	Disconnect hose from tire.
ER5	Low battery or faulty adapter .	Recharge battery or replace adapter .
ER6	Faulty pressure sensor or PCB .	Replace the sensor or PCB.
ER7	Tire pressure is Error.	Replace the valve or PCB.
ER9	Calibration Error	Replace the pressure sensor.

7.0 Wiring Diagram



7.1 Item Code and Description:



8.0 Glossary & Conversions

Units of Measurement

psi	Pounds per square inch
kPa	Kilopascals
bar	Barometric
atm	Atmospheres
Kg/cm2	Kilograms per square centimetre
IP	International Protection Rating
CFM	Cubic Feet per Minute
LPM	Litres per Minute
PCB	Printed Circuit Board
LCD	Liquid Crystal Display
Sample Tube	Connects the valve block & PCB
OPS	Over Pressure Setting
Target Pressure	Final Set Pressure
Sum Pressure	Sum of OPS & Target Pressures
Threshold Pressure	Minimum Pressure for automatic start

Conversions

1 psi = 6.8947 kPa or 0.0689479 bar or 0.06890459 atm or 0.0703069 kg/cm2