

# *JAMEC PEM*

COUPLE UP WITH THE RIGHT CONNECTION

## DIGITAL AUTOMATIC TYRE INFLATOR



## Operating Instructions

Part No. 11.0545

Thank you for selecting this Jamec Pem Automatic Tyre Inflator. Please read this manual before carrying out any installation or service procedure.

This manual is an integral and essential part of the product, please keep it away from damp, heat, dust, oils, do not remove, tear or amend any parts of the manual for any reason. It must be made available to the operator and to maintenance personnel, also to ensure staff training.

If you lose or damage the manual, ask the manufacturer for a copy, quoting the Part No. The manual must always remain with the machine, in the event of the machine being sold, it must be given to the new user.

The manufacturer reserves the right to change product features at any time without notice.

## FEATURES

- Units of measure bar, p.s.i., kPa, kg / cm<sup>2</sup>
- Inflates to 0.5 - 10 bar, 1000 kPa, 145 p.s.i., 10 kg / cm<sup>2</sup>
- Large easy to read LCD display with audible warning
- Tough aluminium die cast body
- Individually calibrated and tested (see calibration certificate)

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## COMPONENTS LIST

Please check and make sure that the following components are complete in the package.

1. Automatic Tyre Inflator with power cord
2. 7.6 m (25 ') Air Hose
3. Hook and M6 x 38 screw kit (1pc)
4. User manual
5. M6 x 38 screw 4pcs for wall mounting

## INSTALLATION

1. Unpack the unit.
2. Hold the unit up on the wall and mark where the four (4) holes are to be drilled.
3. Secure the unit using suitable fastener.
4. Connect the air supply to the unit.
5. Connect the rubber hose as air outlet.
6. Connect the power supply.

### Warning:

1. This unit is connected directly to compressed air and this air contains oil and water. Water is from condensation and oil is from the compressor. Water and oil will destroy this device, so it is important to filter them out first from the system, this means you must attach a filter prior to this device's air connection.
2. Electrical connection should be carried out by qualified person strictly according to the related regulation applicable at the place where the inflator is used.
3. To avoid equipment damage, never exceed the maximum inlet pressure or 10.5 bar / 1050 kPa / 150 p.s.i. / 10.5 kg / cm<sup>2</sup>

## WARNING

To avoid the risk of personal injury, especially to the eyes, face or skin, **DO NOT** direct the air stream at any person, or any part of the body.

This equipment is not intended for use by children without adult supervision.

When using the OPS function, the sum pressure must not exceed the tyre manufacturer's maximum inflation pressure.

## GENERAL NOTES

- During extended inactivity, please package the inflator and keep it away from damp, heat or impact, etc.
- After unpacking the inflator, the packing materials should be disposed of according to the laws and regulations applicable to the country being used.
- Please check carefully to ensure that no part is damaged, so to ensure safe and normal operation.
- The Automatic Tyre Inflator can be installed outside, but a shelter is suggested, so to protect the equipment from the weather and extend the service life.



Fig. 1 Control panel



Fig. 2 Connections



Fig. 3 Display

## PRODUCT IDENTIFICATION

### CONTROL PANEL

1. Mounting Point (x 4)
2. - Target pressure control
3. + Target pressure control
4. Display
5. FLAT TYRE / CONFIRM  
Flat tyre mode air Start/Stop control;  
Function Select Confirm
6. Unit Option  
Unit of measure select;  
Over Pressure Setting set control

### CONNECTIONS

7. Power cable
8. Pressurised Air Inlet
9. Air Hose Outlet
10. Exhaust Plug
11. Buzzer (Audible Warning)

### DISPLAY

12. Unit of measure
13. Pressure display
14. Function selection
15. Rolling bar

## OPERATION

The device includes the OPS (Over Pressure Setting) function which allows for the tyre's pressure to be set very high and then reduced to the pre-determined pressure. This is very handy for use when a new tyre is fitted to a rim.

### Unit of measure select:

This device has four units of measure that can be chosen by the user:

- kPa - kilopascals
- bar
- p.s.i. - pounds per square inch
- kg / cm<sup>2</sup> - kilograms per square centimetre

Once the unit is set here, it will become the default unit for following usage.

1. Press UNIT OPTION and SET will be shown on the LCD screen and the unit will be flashing.
2. Press + or - to choose the unit.
3. Press CONFIRM to confirm unit of measure.

### Set OPS:

1. Press UNIT OPTION twice, SET and OPS will be shown on the LCD screen, OPS will be flashing
2. Press + or - to choose the OPS value.
3. Press CONFIRM to confirm. If OPS value is not zero, OPS will be displayed at the LCD screen.

### Inflation and Deflation:

1. Press + or - to select target pressure.
2. Connect with tyre, ensure no air leaks, inflator will start automatically.
3. When inflation is finished, the tyre inflator will stop automatically and BEEP to warn users that inflation has reached target pressure.
4. Disconnect the air hose from tyre.

### Functions:

1. Press UNIT OPTION to enter the function setting mode. After selecting the unit, press UNIT OPTION again to enter the OPS setting directly, press UNIT OPTION three times and the device will exit out of the setting mode without saving the selection.
2. When OPS function is on, the device will inflate to target pressure plus OPS value first, then deflate to tyre pressure desired, for example:  
A final target of 32 p.s.i. or 2.2 bar with an OPS setting of 16 p.s.i. or 1.1 bar gives a sum of 48 p.s.i. or 3.3 bar. This sum of 48 p.s.i. or 3.3 bar is the Over Pressure setting for the tyre. The tyre will inflate to the sum value and deflate to the final target pressure.
3. If tyre pressure is lower than 3 p.s.i. or 0.2 bar, the device will not start automatically. Press FLAT TYRE for 2 seconds to start manually.
4. During inflation, the device will check tyre pressure automatically, the rolling bar shows inflation/deflation in progress and left to right means inflating, right to left means deflating.

## TROUBLESHOOTING

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
<b>Air leak</b>	Leak in the connection	Check the pneumatic connection and make sure of seals
<b>The inflator works, but no air inflated</b>	Obstruction in the filters or in air system	Clean the filters and check the air tube
<b>Inflation does not start, although the pressure is set and the hose is connected to the tyre</b>	Air hose improperly connected	Check the hose connection, make sure that no air leaks
	Tyre pressure is below 0.2 bar (3 p.s.i.)	Press FLAT TYRE
<b>The unit deflates very slowly</b>	The exhaust plug is blocked	Remove and clean the exhaust plug
<b>Er1</b>	Pressure sensor broken	Power off, change pressure sensor
<b>Er2</b>	Unstable pressure, faulty hose connector	Replace hose connector or re-connect hose to the tyre
<b>Er3</b>	Connected tyre pressure is too high > 13 bar (188.5 p.s.i.)	Stop inflating the tyre
<b>Er4</b>	Wrong connections at air inlet and outlet	Refer to wiring diagram and connect magnetic valve accordingly
<b>Er5</b>	Low voltage	Check the power supply
<b>Er6</b>	Calibration error	Unit requires calibration
<b>Er7</b>	Calibration error	Unit requires calibration
<b>Er8</b>	Air supply lower than set inflate pressure	Stop inflating this tyre

# CALIBRATION CERTIFICATE

This Digital Automatic Tyre Inflator has been calibrated in its normal working position on test equipment with an accuracy that is traceable to International Standards according to: 86/217/EEC

ALLOWABLE TOLERANCE		
<b>BAR</b>	±0.08	up to and including 4 bar
	±0.16	between 4 bar and 10 bar inclusive
	±0.25	greater than 10 bar
<b>p.s.i.</b>	±1.2	up to and including 58 p.s.i.
	±2.3	between 58 and 145 p.s.i. inclusive
	±3.6	greater than 145 p.s.i.

TEST RESULT					
<b>REFERENCE PRESSURE</b>					
<input type="checkbox"/> BAR	<input type="checkbox"/> P.S.I.				
<b>DISPLAY PRESSURE</b>					
<input type="checkbox"/> BAR	<input type="checkbox"/> P.S.I.				

**Serial Number:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## SPECIFICATIONS

<b>Case</b>	Die cast aluminium enclosure
<b>Degree of protection</b>	IP66
<b>Dimensions</b>	23L x 27W x 8.5H cm
<b>Shipping weight</b>	5.5 kg
<b>Inflation range</b>	0.5 - 10 bar (1000 kPa / 145 p.s.i. / 10 kg / cm <sup>2</sup> )
<b>Accuracy</b>	±0.02 bar (±0.3 p.s.i.)
<b>Max. inlet air supply</b>	10.5 bar (150 p.s.i.)
<b>Supply voltage</b>	110~240V AC (50~60 Hz)
<b>Wattage</b>	12 W max
<b>Working temperature</b>	-10 - 50° C
<b>Relative humidity</b>	up to 95% RH non-condensing

## MAINTENANCE

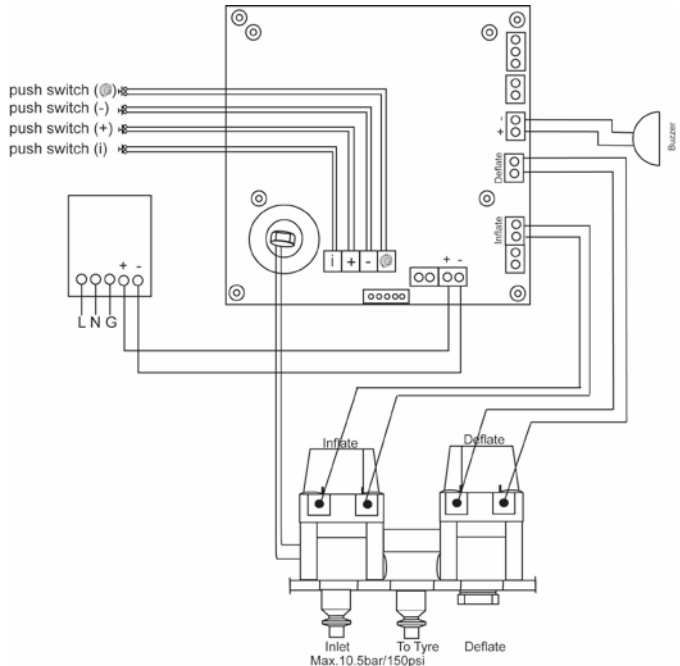
### Daily Maintenance

The device does not require a particular maintenance routine but a check of the pneumatic connection is suggested frequently to make sure of correct air supply, the use of an air pre-filter is essential for this unit to operate properly.

### Special Maintenance

This is a sensitive piece of equipment if you have an error that cannot easily be fixed please contact an authorised service agent.

## WIRING DIAGRAM



**JAMEC PEM**  
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Distributed by  
Primus Australia Pty Ltd.  
Bundoora VIC 3083

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