

# MARTINS Automatic Tire Inflator



**477-00060**  
**MW-60**



**MW-64HP**



**477-00604**  
**MW-60-4WAY**

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## **Warranty**

The inflator includes a 1-year warranty from the billing date, but is null and void if the inflator has been damaged through misuse, improper maintenance or accidental damage, or unauthorized modifications or repairs.

## **Safety**

Inspect before each use. Do not use if broken, bent, cracked, or damaged parts (including labels) are noted.

Do not modify or use this product for any other application than what it has been designed for.

During inactivity period, please package the inflator and keep it away from damp, heat, impact, etc.

Ensure that the product is connected to the correct power and air supply; refer to rating label and general specifications.

Important compressed air contains water and oil, use proper air filter between the source and device. Failure to do so will void the warranty.

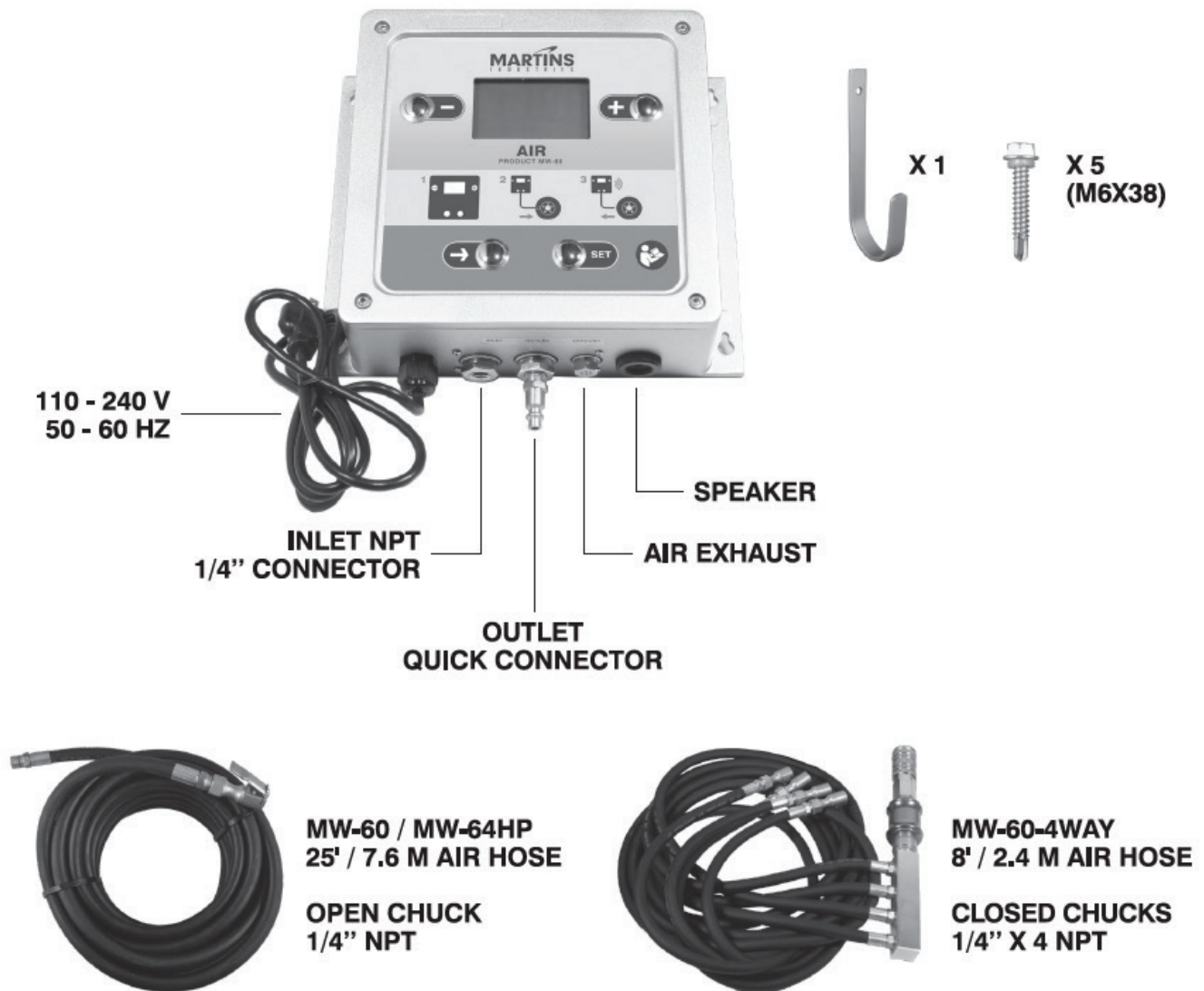
Do not exceed MAX inlet air pressure (see specs. p. 02)

Keep the compressed air inlet pressure within 1035 kPa / 10.5 BAR / 150 PSI / 10.5 kg/cm<sup>2</sup> (MW-60 & MW-60-4way)  
and within 1800 kPa / 18 BAR / 261 PSI / 18.36 kg/cm<sup>2</sup> (MW-64HP).

Always use a Martins Industries' safety cage to inflate your tire.

**BEFORE USING THIS PRODUCT, READ THIS MANUAL AND FOLLOW ALL ITS SAFETY AND  
OPERATING INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR  
PROPERTY DAMAGE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

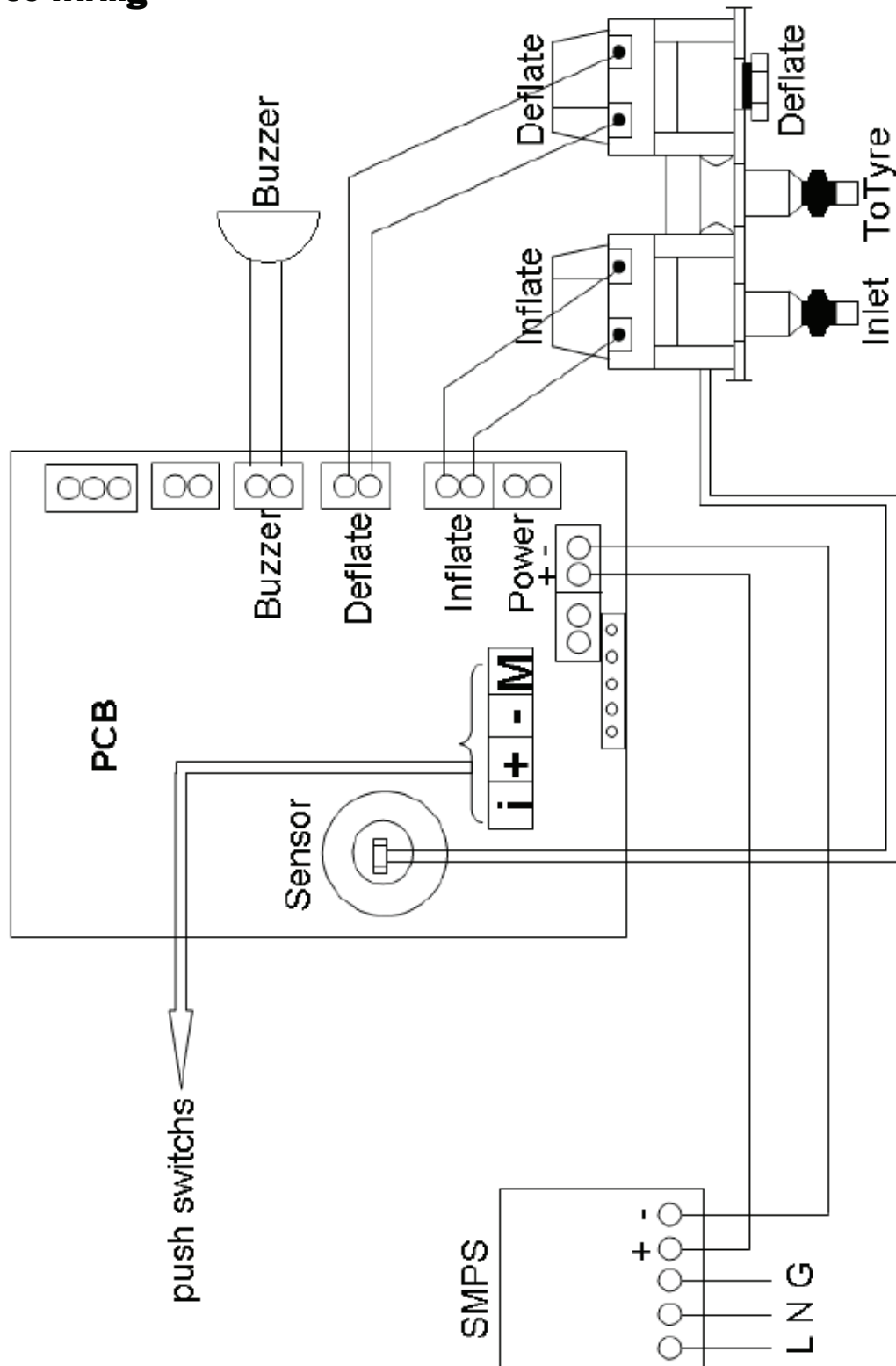
## Specifications



## Dimensions

|                         | <b>MW-60</b>                                                          | <b>MW-64HP</b>                                                        | <b>MW-60-4WAY</b>                                                     |
|-------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Dimensions (L x W x H)  | 23 X 27 X 8,5 cm<br>9" X 10.5" X 3.5"                                 | 23 X 27 X 8,5 cm<br>9" X 10.5" X 3.5"                                 | 23 X 27 X 8,5 cm<br>9" X 10.5" X 3.5"                                 |
| Weight                  | 6 KG / 14 LB                                                          | 6 KG / 14 LB                                                          | 7.2 KG / 16 LB                                                        |
| Color                   | Blue                                                                  | Yellow                                                                | Orange                                                                |
| Max outlet air pressure | 1000 kPa / 10 BAR /<br>145 PSI / 10,2 kg/cm <sup>2</sup>              | 1600 kPa / 16 BAR /<br>232 PSI / 16,32 kg/cm <sup>2</sup>             | 1000 kPa / 10 BAR /<br>145 PSI / 10,2 kg/cm <sup>2</sup>              |
| Max inlet air pressure  | 1035 kPa / 10,5 BAR /<br>150 PSI / 10,5 kg/cm <sup>2</sup>            | 1800 kPa / 18 BAR /<br>261 PSI / 18,36 kg/cm <sup>2</sup>             | 1035 kPa / 10,5 BAR /<br>150 PSI / 10,5 kg/cm <sup>2</sup>            |
| Accuracy                | +/-1.99 kPa / +/-0.02 BAR<br>+/-0,29 PSI / +/-0,02 kg/cm <sup>2</sup> | +/-1.99 kPa / +/-0.02 BAR<br>+/-0,29 PSI / +/-0,02 kg/cm <sup>2</sup> | +/-1.99 kPa / +/-0.02 BAR<br>+/-0,29 PSI / +/-0,02 kg/cm <sup>2</sup> |
| Watt                    | 10 Watt Max                                                           | 10 Watt Max                                                           | 10 Watt Max                                                           |
| CFM                     | 2600 L / min = 92 CFM MAX                                             | 2600 L / min = 92 CFM MAX                                             | 3600 L / min = 128 CFM MAX                                            |
| Supply voltage          | AC 110 ~ 240 V / 50 ~ 60 Hz<br>800 mA Max                             | AC 110 ~ 240 V / 50 ~ 60 Hz<br>800 mA Max                             | AC 110 ~ 240 V / 50 ~ 60 Hz<br>800 mA Max                             |
| Temperature range       | -10 °C ~ 50 °C / 14 °F ~ 122°F                                        | -10 °C ~ 50 °C / 14 °F ~ 122°F                                        | -10 °C ~ 50 °C / 14 °F ~ 122°F                                        |
| Relative Humidity       | up to 95 % RH non-condensing                                          | up to 95 % RH non-condensing                                          | up to 95 % RH non-condensing                                          |
| Material                | Die cast Aluminum Enclosure                                           | Die cast Aluminum Enclosure                                           | Die cast Aluminum Enclosure                                           |
| Degree of Protection    | IP66                                                                  | IP66                                                                  | IP66                                                                  |

## MW-60 Wiring





**Do not connect a tire already inflated above the MAX outlet pressure.**

1) Over Pressure Systems: (OPS): (Available on the MW-60 & MW60-4WAY) When OPS function is on, device will inflate to target pressure plus OPS value first, then deflate to tire pressure desired, for example: A final target of 2.2 bar / 32 psi with an OPS setting of 1.1 bar / 16 psi gives a sum of 3.3 bar / 48 psi. This sum of 3.3 bar / 48 psi is the Over Pressure setting for tire. Tire will inflate to the sum value and deflate to the final target pressure.

2) N2 purge cycle function: The MW-64HP is equipped with a N2 purge cycle function which can perform up to 5 cycles. Each cycle will inflate with nitrogen up to the selected pressure then deflate to 0.3 bar / 5 psi then inflate again to the final selected pressure. For every purge cycle performed, the nitrogen purity in the tire increases.

## MW-60

**SET  
PRESSURE  
UNIT**



Kpa  
Bar  
Psi  
kpa'  
SET

**SET OVER  
PRESSURE  
SYSTEMS <sup>1</sup>**

2X



18.8.8  
OPS

**SET  
INFLATING  
PRESSURE**



18.8.8

## INFLATE TIRE

Initial Tire Pressure > 3 psi / 0.5 bar



Flat Tire or Initial Tire Pressure < 3 psi / 0.5 bar



## MW-64HP

**SET  
PRESSURE  
UNIT**



Kpa  
Bar  
Psi  
kg/cm²  
SET

**SET  
NITROGEN  
FUNCTION ②**



18.8.8  
N2

**SET  
INFLATING  
PRESSURE**



18.8.8

## INFLATE TIRE

Initial Tire Pressure > 3 psi / 0.5 bar



Flat Tire or Initial Tire Pressure < 3 psi / 0.5 bar



**MW-60-4WAY**

**SET  
PRESSURE  
UNIT**



Kpa  
Bar  
Psi  
kg/cm²  
SET

**SET OVER  
PRESSURE  
SYSTEMS ①**



18.8.8  
OPS

**SET  
INFLATING  
PRESSURE**



18.8.8

**INFLATE TIRE**

Initial Tire Pressure > 3 psi / 0.5 bar



Flat Tire or Initial Tire Pressure < 3 psi / 0.5 bar

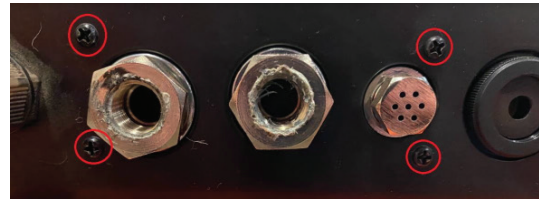


## Change Solenoid Valve (SP-0210) on MW-60, MW-60-4WAY, MW-64HP

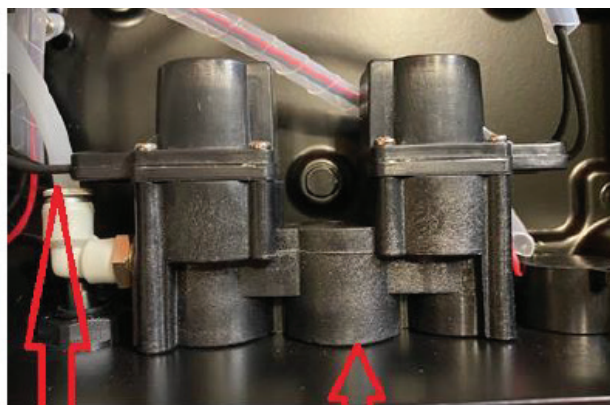
**1. Remove the 4 hex socket screw**



**2. Remove the 4 Philips screws**



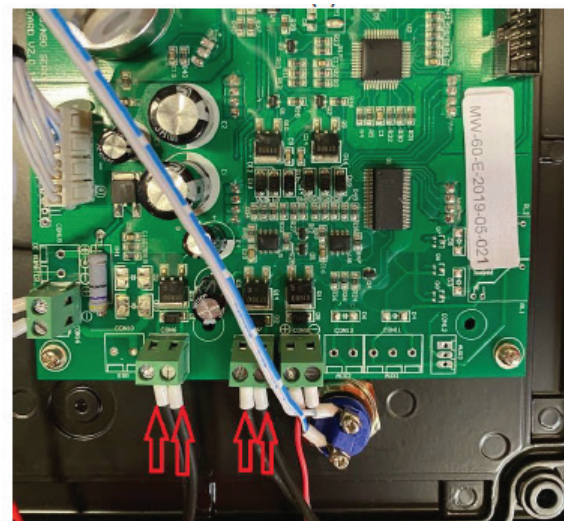
**3. Disconnect the hose**



**Hose to Disconnect**

**Solenoid Valve**

**2. Disconnect the electrical wire (4)**



## Change Beeper on MW-60, MW-60-4WAY, MW-64HP

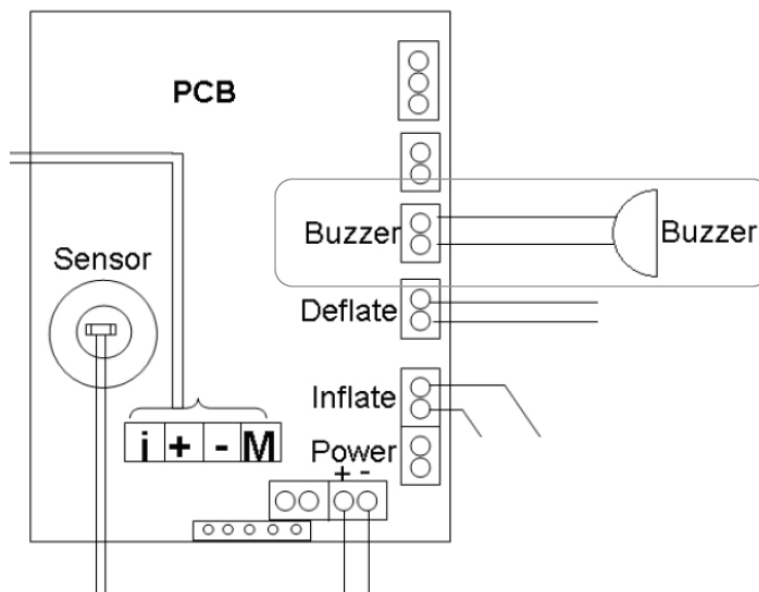
**1. Remove the 4 hex socket screw**



**2. Remove the beeper. The beeper is screw in the inflator with this parts.**



**3. Disconnect the 2 electrical wires on the PCB.**



**⚠ WARNING:** For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Flatematic Calibration Procedure

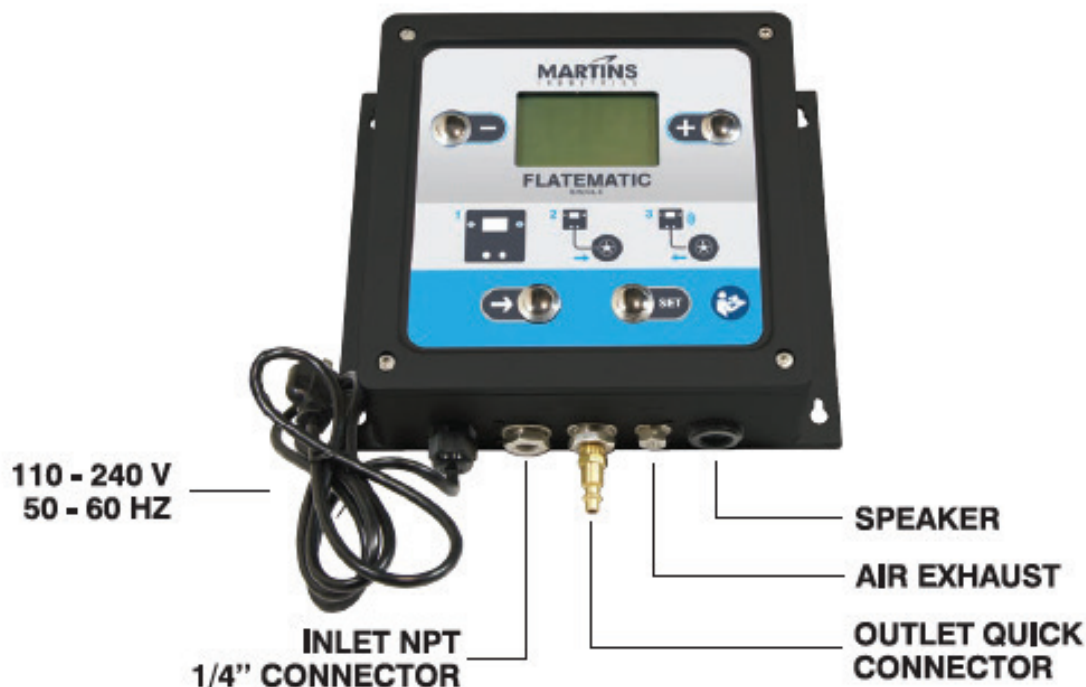
MW-MC

### Warranty



The Flatematic - Tire Inflator includes a 1-year warranty from the billing date, but is null and void if it has been damaged through misuse, improper maintenance or accidental damage, or unauthorized modifications or repairs.

### Specifications



### Safety



**BEFORE** using this product, read this manual and follow all its Safety and Operating Instructions. Failure to do so may result in personal injury and/or property damage. Retain these instructions for future reference.

Inspect before each use. Do not use if broken, bent, cracked, or damaged parts (including labels) are noted.

During inactivity period, please store the inflator and keep it away from damp, heat, impact, etc.

Compressed air contains water & oil, use proper air filter between the source & device. Failure to do so will void the guaranty.

Keep the compressed air inlet pressure within 10.5 bar, 150 psi, 10.5 kg/cm<sup>2</sup>, 1035 kPa (MW-60 & MW-60-4way) and within 18 bar, 261 psi, 18.36 kg/cm<sup>2</sup>, 1800 kPa (MW-64HP).

Ensure that the product is connected to the correct power and air supply; refer to rating label and general specifications of the user manual.

Do not modify or use this product for any other application than what it has been designed for.

## Flatematic Calibration Procedure (Continued)

### Operations - Calibrations

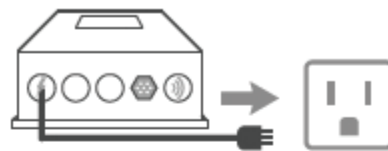


**BEFORE** using this product, unplug from any electrical power & compressed air source.

### Calibration Steps

#### STEP 1

**PRESS  
& HOLD**



**DISPLAYED  
CODE**

063

MW-60, MW-60-4WAY

062

MW-64HP



**RELEASE**



#### STEP 2

**PRESS**



**DISPLAYED  
CODE**

CAL

#### STEP 3

**BLOCK  
INLET**



## Flatematic Calibration Procedure (Continued)

### Calibration Steps (Continued)

#### STEP 4



**BEFORE** connecting the *Flatematic* to the compressed air source ensure that the air source is perfectly stable and exactly at the indicated pressure. Failure to do so may cause wrong calibration results.



DISPLAYED  
CODE

285

MW-60, MW-60-4WAY

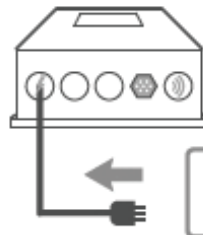
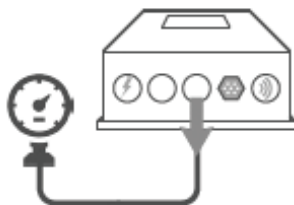
100

MW-64HP

PRESS

SET

#### STEP 5



**FLATEMATIC**  
**CALIBRATED WITH SUCCESS** 

## Troubleshooting

MW-60 / MW-60-4WAY / MW-64HP

- 1) Check if it has a cotton in the inlet or in the chuck.
  - If it has cotton, remove the cotton.

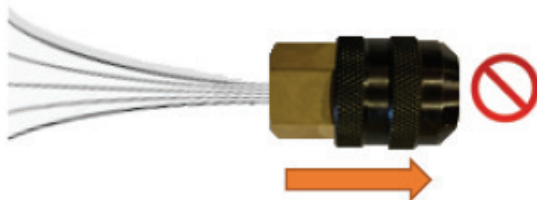


- 2) Check if it has a correct chuck.
  - Open chuck for MW-60 and MW-64HP
  - Closed chusck for MW-60-4WAY

- Open chuck, the air travels the chuck



- Closed chuck, the air doesn't travel the chuck



- 3) If the inflator indicates an error code, refer to the chart on p. 14.
- 4) If the pressure of the tire is less than 3 PSI, 0.2 BAR, 13.8 KPA, see the user manual in the manual inflation section.

### MW-64HP

- 1) If the inflator doesn't inflate or uneven inflation, see user manual in the inflate tire section for the position of the blue valve.

## Troubleshooting (Continued)

| <b>PROBLEMS</b> | <b>POSSIBLE CAUSE</b>                                                          | <b>SOLUTIONS</b>                                                           |
|-----------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Er1             | The pressure sensor is broken.                                                 | The inflator must be replaced.                                             |
| Er2             | Unstable pressure, faulty hose connector.                                      | Replace hose connector or re-connect hose to the tire.                     |
| Er3             | Connected tire pressure is too high pressure.                                  | Stop inflating the tire.                                                   |
| Er4             | Wrong connections in air inlet and outlet.                                     | Refer to wiring diagram and connect magnetic valve accordingly.            |
| Er5             | Low voltage.                                                                   | Check the electrical power source.                                         |
| Er6 and Er7     | Calibration error.                                                             | The automatic inflator needs to be calibrated, contact Martins Industries. |
| Er8             | The air source is lower than the set pressure. Pressure, faulty hose connector | Stop inflating the tire - refer to inlet pressure specifications.          |