



**MFC**International

by RESPIREX

ENGINEERED INFLATABLE PRODUCT SOLUTIONS

# Steel Controllers

8.0 bar, 1.0 bar & 0.5 bar

Product **Manual**



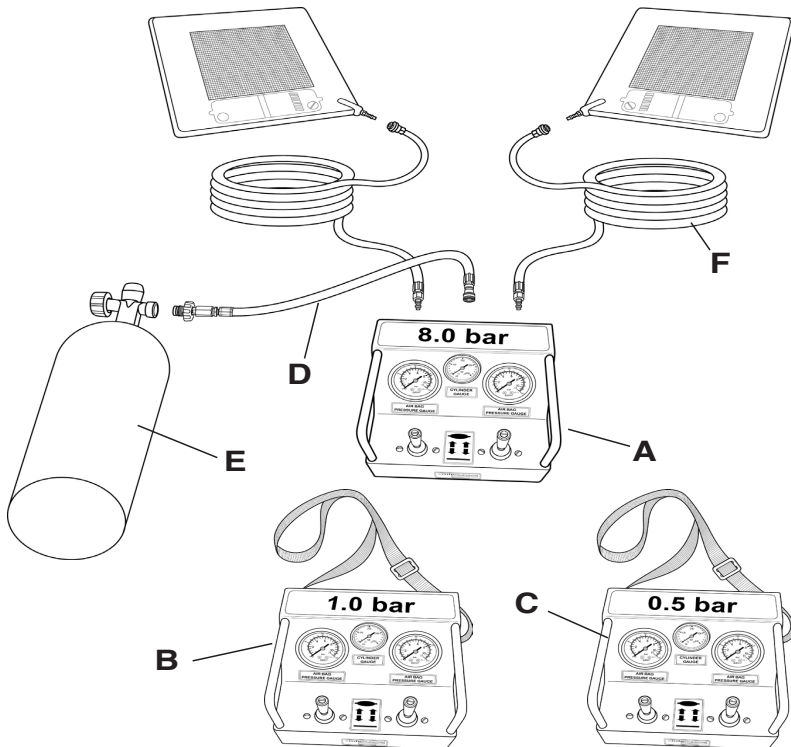
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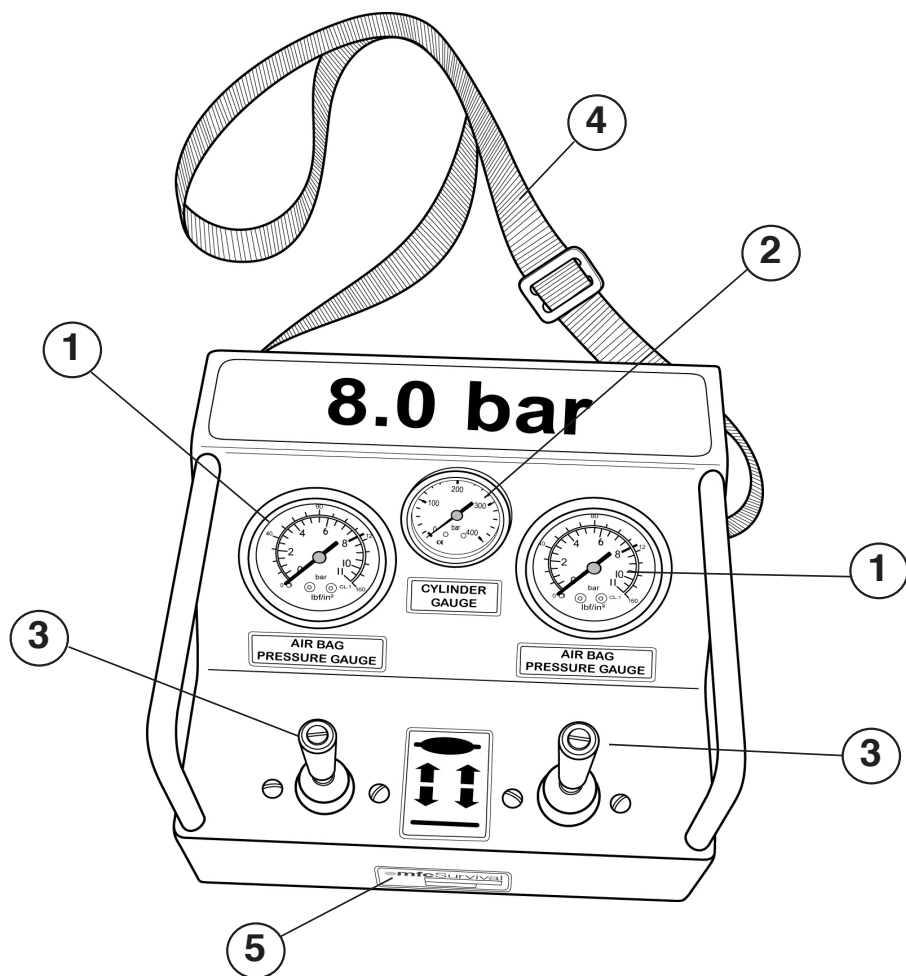
**WARNING:** Carefully read this manual before operating

**NOTICE:** The manufacturer takes no responsibility for the consequences of actions not complying with the instructions given in this manual.

## STANDARD COMPONENTS

- Dual Controller:
  - type 530/855 (8.0bar) (A)
  - or
  - type 530/646 (1.0bar) (B)
  - or
  - type 530/646 (0.5bar) (C)
- High Pressure Connecting Hose (D)
- Cylinder (E)
- Delivery Hose (F)

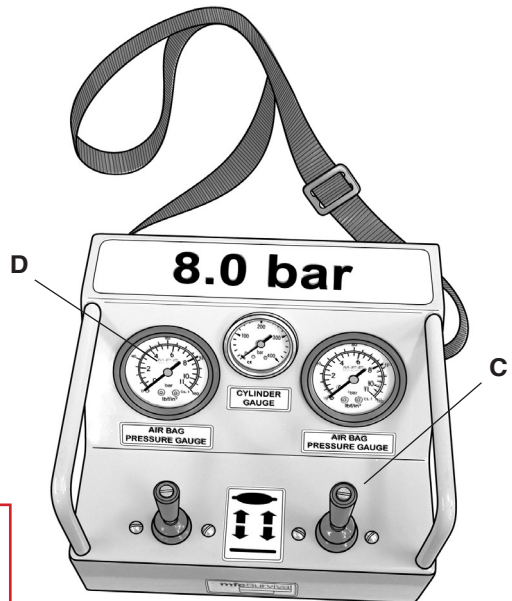
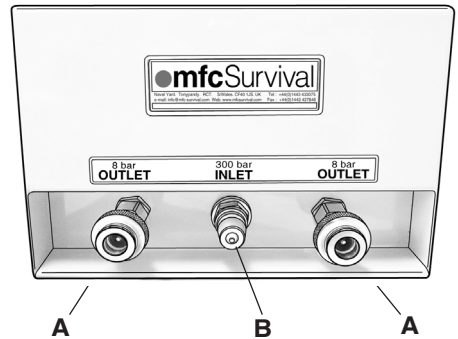




- 1 Outlet Pressure Gauge
- 2 Optional Regulator
- 3 3 Position Flow Control Layer
- 4 Nylon web adjustable carrying/handling shoulder strap
- 5 MFC Prod/Serial No. Label

- Ensure controller levers are in 'off' position. Connect air bag delivery hoses to controller outlet ports (A) maintaining clear line to respective air bags.
- Connect high-pressure hose from cylinder/compressor to centre port of controller (B). Maximum Controller inlet pressure is 300 bar.
- Commence inflation by moving control lever(s)
- (C) to inflate position. When using two or more air bags, balance air input by attention to controller gauges (D).
- Should a change of cylinder be required, close the cylinder valve. Disconnect by means of cylinder adaptor hand wheel and reconnect to charged cylinder.
- After use, deflate by moving relevant control lever to the 'deflate' position

**WARNING:** Ensure all gauges are reading zero before disconnecting hoses.



### **After Operational Use and Quarterly Care and maintenance should only be carried out by trained personnel.**

1. Visually inspect controller for signs of damage.
2. Check mechanical operation of flow control levers.
3. Connect controller to air source (maximum inlet pressure - 300bar).
4. With control levers in the "OFF" position turn on air supply. Check integrity of inlet supply connections.

Connect delivery hoses to controller but not to air bags. Move control levers to inflate position. Check functioning of relief valves by reference to discharge pressure line on face of gauge. The relief valves have an operating tolerance of +/-10% and depending on controller, should operate as follows:

- 530/855 - 8.0 bar Controller - Vent and re-seat between 8.8 bar and 7.2 bar respectively.

- 530/646 - 1.0 bar Controller - Vent and re-seat between 1.1 bar and 0.9 bar respectively.

- 530/646 - 0.5 bar Controller - Vent and re-seat between 0.55 bar and 0.45 bar respectively.

5. With controller pressurised check for leaks. A leak is indicated by a pressure decrease on the Airbag Pressure Gauge. (NOTE: allow the pressure relief valves to re-seat before checking for leaks). If a leak is detected, please contact Servicetech.
6. Thoroughly wipe down and dry controller before storing.

CONTROLLER TECHNICAL DATA				
TYPE		530/855 - 8.0 Bar	530/646 - 1.0 Bar	530/646 - 0.5 Bar
Max. Inlet Pressure	bar	300	300	300
Max. Outlet Pressure	bar	8.01	.0	0.5
Size	cm	W23.3 x D20 x H15.5	W23.3 x D20 x H15.5	W23.3 x D20 x H15.5
Weight	kg	5.54	5.54	5.54
DELIVERY HOSE (Controller to Airbag)				
10mm I/D (16mm O/D), Reinforced PVC hose. (Alternative rubber covered hose can be supplied if specified).				
Max working pressure: 16 Bar.				
Standard length supplied: 10 metres.				
Colour: Red or Green.				
Quick release couplings each end.				
Properties of PVC Material in accordance with BS 2732.				
HIGH PRESSURE HOSE (Cylinder to Controller)				
6.5mm I/D (15mm O/D) Double wire reinforced synthetic rubber hose.				
Max. working pressure: 300 Bar.				
Standard length supplied: 450mm.				
Colour: Black.				

Controller Technical Data			
Type	8 Bar	1 Bar	0.5 Bar
Max. Inlet Pressure (Bar)	300	300	300
Max. Outlet Pressure (bar)	8	1	0.5
Size (cm)	23.3x20x15.5		
Weight (kg)	5.5		

## DECLARATION OF CONFORMITY

This is to certify that:-

The Type 530/855 Series MFC Controller (8.0 bar) ☐

The Type 530/646 Series MFC Controller (1.0 bar) ☐

The Type 530/646 Series MFC Controller (0.5 bar) ☐

Serial No:

Date:

complies with:-

*The requirements of the Machinery Directive 2006/42/EC*

Tested by:

**Signed:**

SO 9001: 2008 Certified by BSI (UK): P.O. Box 9000, Milton Keynes, MK14 GWT. Notified Body: UKAS 003



## REPAIRS

As a general rule, punctures and other damage will need to be assessed in two categories: a) that which is repairable at the base, or b) serious damage that will need to be repaired by MFC International.

If in doubt as to the extent of the damage and the level of repairs necessary, please contact :-

### MFC International

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A Respirex International Limited Group Company







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