

# User Guide

Product:

TJM Pro Series Portable Single Compressor

Part No.

013COMPVPROSP



**86 / 3.0**  
LITRES PER MINUTE / CUBIC FEET PER MINUTE



**100**  
PERCENT DUTY CYCLE



For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

# TJM Pro Series Portable Single Compressor - User Guide

## Table of Contents

1.0	What's Included .....	3
2.0	Features .....	4
3.0	Electrical Specification .....	4
4.0	Performance .....	4
5.0	Warnings .....	5
6.0	Operation Guide .....	5
7.0	Tyre Inflation.....	6
8.0	Routine Maintenance .....	6
9.0	Troubleshooting Guide .....	7
10.0	Service/Spare Parts.....	7

For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

# TJM Pro Series Portable Single Compressor - User Guide

## 1.0 What's Included



QTY	Description
1	12V DC Compressor in Heavy Duty Storage Case
1	Battery Clamp with 50A Anderson Plug
1	6.0m Airline Hose with Nitto Fitting
1	Inflation Chuck with Nitto Fitting

For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

# TJM Pro Series Portable Single Compressor - User Guide

## 2.0 Features

- 48mm Piston with Teflon Impregnated Cylinder Bore
- Internal Motor Fan with Convection Cooling
- 86LPM (3.0CFM) @ 0PSI (0 Bar)
- 100% Duty Cycle @ 80PSI (23°C)
- Motor Thermal Cutoff Switch
- Internal LED Light
- Illuminated Activation Switch
- 2.0 metre power cable with 50A Anderson Plug
- Battery clamp with 50A Anderson Plug
- Includes 6.0 metre Airline Hose & Tyre Inflation Chuck
- Integrated air tank (0.23L)
- Heavy Duty Storage Case

## 3.0 Electrical Specification

Voltage	12 V DC
Current Draw (0 Bar / 0 PSI)	26 A
Current Draw (2 Bar / 29 PSI)	33 A
Fuse Type and Rating	Maxi 40 A
IP Rating	54
Motor Thermal Cut-Off Temperature	105°C

## 4.0 Performance

Air flow (0 Bar / 0 PSI)	86 LPM / 3.0 CFM
Air Flow (2 Bar / 29 PSI)	66 LPM / 2.3 CFM
Duty Cycle (80 PSI @ 23°C)	100 %
Pressure Switch Operation	Off @ 120 PSI / On @ 90 PSI
Safety Relief Valve Opening Pressure	1070 kPa / 155 PSI

For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

## TJM Pro Series Portable Single Compressor - User Guide

### 5.0 Warnings

- Read User Guide before use.
- The compressor will become **very hot** during use. Do not touch compressor or fittings during or immediately after use with bare hands. Wear gloves when changing the hose connection.
- Allow compressor to cool before storing power cable & airline hose.
- Ensure that a 12V DC power source with adequate current is used to operate the compressor. Using an inadequate power source can lead to overheating or damage to the compressor.
- Do not disassemble or modify, all repairs should be completed by qualified person/s.
- Never blow compressed air towards another person, animal, or part of the body.
- Always wear safety glasses when operating air compressor.

### 6.0 Operation Guide

- The compressor is designed for individual use, not for commercial or industrial applications.
- The compressor is fitted with a thermal cut-off switch. This switch protects the motor from overheating. If the compressor cuts out, turn off the power switch and allow the compressor to cool for at least 45 minutes before attempting to restart.
- The compressor duty cycle is rated at 23°C. Higher ambient temperature will reduce the duty cycle.
- The duty cycle is rated over a 60-minute operating period. The compressor is not rated to run continuously beyond the specified duty cycle.
- Use the compressor while the vehicle **engine is running**. Operating the compressor with the vehicle engine off can rapidly drain the battery.
- The compressor is fitted with a safety relief valve, set at factory to 155 PSI. The valve can also be manually opened to discharge air pressure by pulling on the ring at the top of the valve. It is recommended to discharge the air system after using the compressor.

For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

## TJM Pro Series Portable Single Compressor - User Guide

### 7.0 Tyre Inflation

- Ensure activation switch is OFF before connecting to 12V DC power source.
- Check & ensure compressor is not pressurised by pulling on the relief valve.
- Connect battery clamps or Anderson plug to a 12V power source, ensuring Red cable is connected to Positive (+) & Black cable to Negative (-).
- Remove dust cap from compressor fitting & connect supplied airline hose to compressor fitting.
- Connect Tyre Inflation Chuck or Tyre Inflator (Not included) to other end of airline hose.
- Switch compressor ON using activation switch.
- Compressor will activate until pressure reaches 120PSI & automatically switch OFF.
- Compressor will automatically re-activate once compressor falls below 90PSI.
- Inflate tyre to desired pressure.
- Switch compressor OFF when completed & disconnect airline hose & power cable from power source. Allow compressor to cool down before storing.

### 8.0 Routine Maintenance

**Always ensure pressure in compressor has been discharged before commencing.**

- Periodically inspect and replace the air filter. Blocked air filters significantly reduce compressor performance. Never run the compressor without a filter – this will reduce the life of the compressor.
- Periodically check fittings and airlines for leaks.
- Periodically check the safety relief valve – ensure air is released when the manual override is pulled.

**NOTE:** The compressor does not use oil lubrication – there is no requirement to check / fill oil.

## TJM Pro Series Portable Single Compressor - User Guide

### 9.0 Troubleshooting Guide

This is a basic guide for field troubleshooting only. If the compressor does not operate after taking these steps, refer to a TJM distributor.

Problem	Possible Cause	Resolution
Compressor does not run	Thermal cut-off switch active	Switch OFF power, wait 45 minutes for compressor to cool, restart.
	Wiring Fault	Check that all connections are secure. Check activation switch illuminates green and red when switched ON.
	Fuse blown	Replace 40 A maxi fuse.
	Relay blown	Test with another relay and replace if required
	Faulty pressure switch	Check for voltage at relay terminal 86. Replace switch if required.
Compressor switches ON and OFF frequently	Air leak	Check all air lines and fittings for leaks.
Compressor does not switch OFF at 120 PSI (observe relief valve opens while running)	Faulty pressure switch	Replace pressure switch.
Lower air flow than normal	Blocked air filter	Inspect air filter and replace if dirty.
Unusual noise or vibration	Loose mounts	Tighten all mount bolts.

### 10.0 Service/Spare Parts

The major components of the compressor are designed to be maintenance-free for the life of the unit. The following parts are available for servicing requirements:

- 013COMPVFILTERKIT - Filter housing and element kit
- 013COMPVFILTER03 - Filter element kit
- 013COMPVACTSWITCH - Activation switch kit
- 013COMPVSRV155-18N – Safety relief valve 155 PSI, male 1/8" NPT
- 013COMPVPS120-90 – Pressure switch OFF 120 PSI / ON 90 PSI
- 013COMPPF01 - Nitto female one touch fitting with 1/4" BSPT thread
- 013COMPBLKDC - Dust cap to suit Nitto fitting
- 013COMPTICHUCK – Tyre inflation chuck with Nitto fitting

**NOTE:** It is recommended that all serviceable components be serviced by suitably qualified personnel

For product warranty please refer to our website [www.tjm.com.au](http://www.tjm.com.au)

**Distributed by TJM Australia**  
17 Johnstone Road Brendale Q 4500

