Portable PCP Air Gun Compressor

OPERATING INSTRUCTIONS

CONTENTS

READ BEFORE USE

Working with compressed air can be dangerous! You must read these instructions fully to familiarise yourself with the operation of Portable Compressor before using it. Misuse of the compressor could result in personal injury or equipment damage. Do not use the compressor for anything other than PCP (precharged pneumatic) airgun use.

IMPORTANT INFORMATION

- Portable PCP Air Gun Compressor can operated with either 240v AC (mains) power, or 12v DC (battery) power. Leads for both systems are supplied.
- NEVER start the Portable compressor without first having started its cooling fan (see page 6).
- The Portable compressor is designed to directly fill airguns with an integral cylinder or buddy-bottle air source up to 0.5 litres (500cc) volume. It should not be used for filling scuba tanks over 500cc. Any damage to the compressor or PCP airgun caused through incorrect operation or use will not be covered by the warranty (see page 10).
- The Portable compressor has a MAXIMUM charging pressure of 300BAR (4,500psi/30MPa) pressure.However, many PCP airguns will have a safe working (operating) pressure that is lower than this – so DO NOT OVER-CHARGE your PCP airgun..
- ALWAYS adhere to the airgun manufacturer’ s operating instructions when using the Portable compressor to charge your PCP airgun
- The Portable compressor has an automatic pressure-stop feature (see page 7). However, it is recommended that you still observe the needle position on both the unit’ s pressure gauge and the PCP airgun’ s pressure gauge during the charging process
- To avoid the unit overheating, always operate the Air Rover™ in a well ventilated space.
- Do not disassemble the main unit of the Portable compressor – there are no user-serviceable parts inside. However, the seals and Dri-Pak™ medium and filters in the hose assembly can be replaced with the spares provided (see page 9).
- ALWAYS follow the rudimentary safety procedures when charging your PCP airgun.

MAIN OPERATING PARTS

Unit temperature LCD display

Main charging pressure gauge

Auto-stop pressure limiter (manually set)

Carry handle

Compressor function 'on' / 'off' button

Electric cooling fan 'on' / 'off' button

Foster-type quick-fit air line outlet

Explosion-proof screws

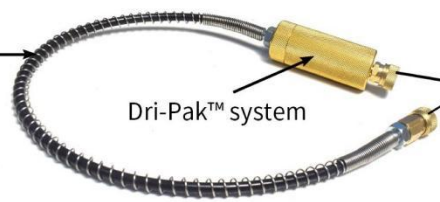
Air line (hose assembly) 'bleed' screw

Base support feet

AC (mains 240v) power cord socket

DC (battery 12v) cable socket

Main unit fuse (with protective cover)



Air line (hose)

Dri-Pak™ system

Foster-type quick-fit connectors

PREPARING THE UNIT FOR USE

The air line (hose assembly) attaches to the outlet at the front of the Portable Compressor via a quick- fit, Foster-type locking connection. To secure the Foster coupling, pull back on the outer casing of the female quick-fit connector, [fig 1] insert over the male adapter then release [fig 2].

Note: Always double-check the connection is locked in place.

FOSTER CONNECTOR UNLOCKED

FOSTER CONNECTOR LOCKED

The Portable Compressor hose assembly contains a Dri-Pak™ system (see page 9) which eliminates moisture build-up and, therefore, the possibility of corrosion. It does not matter which 'end' of the air line the Dri-Pak™ is placed, but it is more practical to connect it closest to the main unit [fig 3].

The hose assembly attaches to the PCP airgun at the other end via a Foster-fit. An additional adapter/ connector may be required [fig 4] due to the many different types of filler-fittings used across PCP airgun makes (refer specific PCP manufacturer).
Note: A thread-to-Foster adapter is included in theaccessory pack [fig 5].

OWERING THE UNIT

The Portable Compressor can be powered from either mains electricity (AC power) or from a 12v car battery (DC power). When powered by battery, ensure the car engine is running.

wrong: DO NOT run the air compressor without the cooling fan in operation.
Correct : ALWAYS run the cooling fan for two or three minutes before starting the air compressor.

USING AC (240v MAINS) POWER

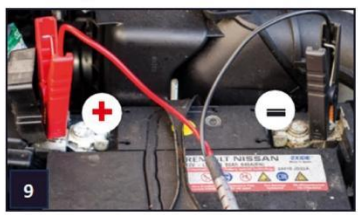
USING DC (12v BATTERY) POWER

Connect the supplied AC power cord (above) to the right-hand side of the main unit [fig 6] and connect the three-pin plug to the mains power outlet.

Press the 'FAN' button on the top of the compressor [fig 7] to start the cooling fan – its operation will be audible.

Ensure the car engine is running. Connect the supplied DC power cable (above) to the right side of the main unit [fig 8].

Connect the red clip at the other end of this cable to the positive (+) terminal of the car's 12-volt battery. Then connect the black clip to the battery's negative (-) terminal [fig 9].



Press the 'FAN' button on the top of the compressor [fig 7] to start the cooling fan – its operation will be audible.

ARGING PROCESS
- STARTING UP THE FAN & COMPRESSOR

With the air line (hose assembly) connected to the Portable Compressor at one end and to the PCP airgun at the other (see page 5), and with the cooling fan switched on (see page 6) and running, close the air bleed screw on the front of the main unit by turning it clockwise [fig 10]. It need only be finger tight.

Manually rotate the needle of the automatic shut- off system to the desired pressure [fig 11].
* NEVER set a pressure that is higher than your PCP airgun' s stated maximum fill pressure. Over-charging your PCP airgun will not increase its power, but it could have dangerous consequences.
* NEVER set a pressure above 300BAR (4,500psi/30MPa).

With the cooling fan running, press the left-hand 'COMPRESSOR' button on the top of the main unit [fig 12]. The compressor unit will audibly start up and the charging process will begin.

According to the size of the PCP airgun' s air cylinder, its charge state and the target pressure, charging time will vary. Typically, it will take approximately 25 minutes to charge an empty cylinder of 500cc capacity to 300BAR.
During the charging process, the temperature of the unit (in degrees Celsius) will be visible in the LCD display on the top of the main unit [fig 13]. This should be monitored throughout the charging process.
IMPORTANT: If the working temperature exceeds 80 degrees Celsius, the compressor function must be manually switched off (see page 8) and the cooling fan left running. Restart the compressor function once the Portable Compressor has cooled down.

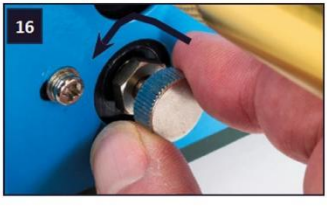
ARGING PROCESS
- STOPPING THE COMPRESSOR & FAN

When the target pressure has been reached, the Air Rover™ will automatically switch off its compressor. However, it is recommended that you keep an eye on the pressure gauges of both the compressor unit and PCP airgun to avoid inadvertent over-charging.
Note: After the compressor has auto-stopped, you will need to manually press the 'COMPRESSOR' button twice to re-start the charging procedure.
Should you wish to manually shut off the compressor at any time while it is running, press the 'COMPRESSOR' button [fig 14] once.
IMPORTANT: When the compressor function is switched off, the cooling fan will continue to run. The fan should be left on for around three minutes after the compression function has been stopped (whether manually or automatically). To switch the cooling fan off, push the 'FAN' button [fig 15].

DISCONNECTING THE AIR LINE (HOSE ASSEMBLY)

After the charging cycle has been completed and/ or the compressor has been manually switched off, the air line (hose assembly) will still contain high pressurise air. This residual air MUST be released ('bled off') before the hose assembly can be safely disconnected from the PCP airgun and/or main unit.

With the compressor function stopped, open the air bleed screw on the front of the unit by turning it counter-clockwise [fig 16]. You will hear a loud 'hiss' for a few seconds as the residual compressed air escapes from the air line.



After bleeding off, the whole hose/ Dri-Pak™ assembly can be removed from the PCP airgun and, if required, the main compressor unit by unlocking the Foster connectors (see page 5).
Note: On PCP airguns that use a proprietary filling connector (eg push -in probe), the Foster connector will not need to be unlocked. Simply disconnect the filler from the airgun as required [fig 17].

The Dri-Pak™ SYSTEM

The Portable Compressor comes with an integral Dri-Pak™ system on its air line as standard [fig 18]. This system uses a desiccant medium to remove moisture content from the compressed air, thereby reducing the risk of corrosion occurring inside the PCP airgun. It also features filters to avoid dirt ingress.

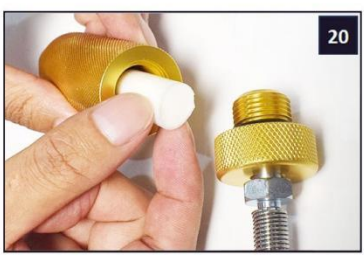
Note: It does not matter which 'end' of the air line the Dri-Pak™ is placed, but it is more practical to connect it closest to the main compressor unit.

The desiccant medium [fig 19] will need replacing when the Portable Compressor has completed approximately 40 or 50 filling cycles (see General Routine Maintenance below).

GENERAL ROUTINE MAINTENANCE

There are no user-serviceable parts inside the Portable Compressor, so DO NOT disassemble the main compressor unit. However, the Dri-Pak™ desiccant medium and its filters, the fuse and the O-rings on the main connector fittings can be replaced with the spares provided as required.

With the Dri-Pak™ removed from the main unit, unscrew both knurled ends of the brass housing.Extract the dirt filters and expired desiccant, noting their orientation and the order in which they' re removed. Use a thin screwdriver to prise out the filter pads [fig 20].Replace with new desiccant and filters and rebuildthe Dri-Pak™ in reverse order.



Routinely check the condition of the O-rings on all connection assemblies and replace if they look worn, cracked or damaged. O-rings are likely to be the cause of most charging issues, such as air leaks.

Pull off the fuse cover on the right side of the main unit. Then pull out the old fuse [fig 21] and push in the spare provided. After renewing the fuse, push the cover back on.

WARRANTY

The Portable Compressor 12v/240v Portable PCP Air Gun Compressor is warranted to the retail consumer for one (1) year from date of retail purchase against defects in material and workmanship. The warranty is not transferable. Any implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to one (1) year from date of retail purchase.

What is covered: Replacement of faulty parts and labour.

What is not covered: Shipping charges to Portable Compressor for defective product and damages caused by abuse or failure to perform normal maintenance, as well as any other expense. Consequential damages, or incidental expenses including damage to property (unless state exclusions apply).

To make a claim: Contact Service Support (see above). If a return is deemed necessary, you will be issued a Return Authorisation Number, which should be boldly written on the box and returned (prepaid) to our. Your name, address, telephone number, a note explaining the fault in detail and a copy of the original, dated cash register receipt must all be included with the return.

Type	High Pressure Air (HPA) compressor (For use with dry, compressed air ONLY)
Max Charging Pressure	300BAR (4,500psi/30MPa)
Max Charge Capacity	0.45l (450cc)
Charging Rate (0.5l)	0-300BAR - 25 mins. approx.
Compression Limiter	User-selected automatic shut-off
Cooling System	Electric Fan (air cooling)
Filter System	Dri-Pak™ with replaceable desiccant medium and dirt filters (spares included)
Air Line (Hose)	Supplied, with Foster-type quick-fit connectors
Power Supply	AC - 240v / DC - 12v
Motor Power Rating	350w
Accessories Supplied	Spare O-ring seals (line/filter), Dri-Pak™ desiccant, QF stops, QF adapter, spare filters spare fuses, 240v AC lead, 12vc DC lead
Dimensions	305 x 225 x 150mm (L x W x H)
Weight	7.3kg approx.