

**EN**

Original Instructions  
Version 2

**DRAPER**<sup>®</sup>

**Important:** This product must be charged until full **IMMEDIATELY** after purchase and every two months thereafter.

# 12V POWER PACK

90643



UK  
CA CE

# 1. Preface

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

## 1.1 Product Reference

User Manual for: 12V Power Pack

Stock No: 90643

Part No: PP12V17Y

## 1.2 Revisions

Version 1: March 2019

First release

Version 2: March 2023

General formatting and content updates

As our manuals are continually updated, always ensure that the latest version is used.

Please visit [drapertools.com/manuals](http://drapertools.com/manuals) for the latest version of this manual and the associated parts list, if applicable.

## 1.3 Understanding the Safety Content of This Manual



**WARNING!** – Situations or actions that may result in personal injury or death.



**CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

## 1.4 Copyright © Notice

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# 3. Product Introduction

## 3.1 Intended Use

This product has been manufactured as a compact, durable and portable jump-start system and can serve as a portable power source with 12V DC and 5V USB output sockets. It is also equipped with an air compressor.

Part of our core range, this product is suitable for regular use by enthusiasts and tradespersons alike.

 **WARNING! NEVER use this product to jump-start lithium-ion (Li-ion) batteries.**

**Important:** This product is **NOT** designed for use as a vehicle battery charger and is intended for jump-starting the battery **ONLY**. Attempting to charge a vehicle battery using this product will damage the product and the battery.

 **WARNING! This product is not a toy and must be respected.**

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

**Important:** To maintain the health of the on-board battery, this product must be charged until full **IMMEDIATELY** after purchase; see **6.1 Charging the Jump Starter**.

## 3.2 Specification

Stock No.	90643
Part No.	PP12V17Y
Output	
Rated voltage	12V
Max. starting CCA (Cold Cranking Amps)	400A
Max. starting current	900A
Power bank socket output	
12V DC adaptor	12V DC
USB port	5V/1A
Integral battery	
Type	Lead-acid sealed battery
Voltage	12V
Capacity	17Ah
Charger	
Input voltage	230V AC
Input frequency	50Hz
Output voltage	12V
Output current	500mA
Appliance Class	Class II
Air compressor	
Max. pressure	150psi (10.3bar)
Air delivery	Hose and "lock on" connector valve
Duty cycle	10min on, 10min off
Jump lead length	670mm
Dimensions	W 270 x H 350 x D 145mm
Weight	7.8kg

**Important:** Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Non-compliance with these instructions may result in injury or damage to the user, the product or any connected devices.

## 4.1 General Health and Safety Precautions

- Observe all standard safety precautions and good practices when working with electrical equipment and batteries.
- Ensure that your working environment is well lit, with any bystanders a safe distance away.
- Use the product only as instructed by this manual; **DO NOT** disassemble or modify it in any way.
- **ONLY** use spare parts supplied by Draper Tools.
- **DO NOT** use this product if you are tired or under the influence of alcohol, drugs or other medication.
- **DO NOT** use this device in wet environments or expose it to water or other liquids.
- **DO NOT** use or store this product in temperatures exceeding 60°C.
- **DO NOT** obstruct or insert foreign objects into the air vents.

Before every use, inspect the product for broken, cracked, loose or corroded parts and leakages.

**Important: DO NOT** use this product if it is leaking or damaged in any way. **DO NOT** attempt to disassemble a damaged product; contact Draper Tools to discuss repair and replacement options.

- **ALWAYS** wear protective gloves and eye protection while using this product.
- Damaged external cords must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- **NEVER** carry the product by the plug or external cords.
- Keep this product out of reach of children.



**WARNING! DO NOT** leave this product unattended or unobserved while in use under any circumstances.



**WARNING! NEVER** use this product to jump-start lithium-ion batteries.

## 4.2 Additional Safety Instructions for Jump Starters and Portable Power Packs



**CAUTION!** This product **MUST** be charged for at least 30 hours immediately after purchase. Charge the product fully at least once every two months to maintain the health of the on-board battery.

- Use this product **ONLY** in well-ventilated areas.
- **NEVER** use this product near flammable substances or substances that produce flammable vapours.
- **DO NOT** use this product near devices that may cause sparks.
- This product may become warm during extended periods of use.
  - **ALWAYS** position this device on a non-flammable surface during use.
  - **NEVER** cover the product or battery during use or charging.
- **ALWAYS** ensure that the jump starter leads are isolated before connecting a battery.
  - The jump-start lead isolator should be in the off (O) position at all times until you are instructed otherwise as part of the jump-starting process.
- **NEVER** jump-start a frozen battery.
- **NEVER** allow the clamps to touch one another or contact the same piece of metal as this may result in current arcing.
- **NEVER** touch both the positive and negative terminals of the connection leads.
- If the terminals are connected incorrectly, switch off the product **IMMEDIATELY** and reconnect the terminals correctly.
- **DO NOT** use or store this product in warm environments, in direct sunlight or near sources of heat or ignition.
- Ensure that the product is in its upright position while the on-board battery is being charged.
- **DO NOT** use the product while it is charging or connected to a mains power supply.
- If the battery has not charged after the period specified, disconnect it from the power source and contact Draper Tools for support.
- **NEVER** burn or mutilate batteries or products containing batteries as they may explode or release toxic substances.

## 4. Health and Safety Information

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- **DO NOT** attempt to remove the battery from this product.
- Battery acid is highly corrosive; if the product battery begins to leak, stop all operations immediately and contact Draper Tools for support.
  - If battery acid comes into contact with your eyes or skin, flush with plenty of water and seek immediate medical attention.



**CAUTION!** The jump-start function of this product is suitable for use on 12V DC circuits **ONLY**.

### 4.3 Working With Lead-Acid and Other Vehicle Batteries



**WARNING!**  
Risk of explosive gases.

Working in close proximity to lead-acid batteries is dangerous as they produce potentially explosive gases during normal operation.

**ALWAYS** read this manual in full before **EVERY** use and keep your work area well-ventilated. Contact Draper Tools for assistance if you are not confident in the use of this product.

Use this manual in conjunction with the battery manufacturer manual and that of any other equipment to be used in the vicinity. Review all safety markings and rating plates present on the battery, charger and any other nearby equipment before using this product to jump-start a vehicle battery.

- **DO NOT** work with vehicle batteries on your own; **ALWAYS** ensure that someone is nearby to come to your aid if necessary.
- Wear complete eye and hand protection, and wear suitable clothing that covers your skin appropriately.
  - Avoid touching your eyes while working with lead-acid batteries.
- Keep plenty of fresh water and soap nearby in case battery acid comes into contact with your skin, eyes or clothing.
  - If battery acid comes into contact with your skin or clothing, wash the affected area immediately with soap and water.
  - If battery acid enters your eyes, flush the eye immediately with copious cool and clean running water for at least 15 minutes and seek medical attention immediately.

- **NEVER** smoke or allow sparks or flames in the vicinity of the battery or engine.
- Take extra care to prevent metal objects or tools from falling onto the battery as this may cause a spark, short-circuit the battery or cause an explosion.
- **ALWAYS** remove personal metallic objects before use.
  - Lead-acid batteries can produce a short-circuit current high enough to weld metal and cause severe burns.



**WARNING!** **DO NOT** top up the electrolyte beyond the manufacturer's recommended level. Overfilling the battery may cause the acid content to leak.



**WARNING!** **DO NOT** use this product to jump-start high ampere-hour batteries.

### 4.4 Safety Information for Air Compressors



**WARNING!** This compressor is capable of supplying air at high pressure. **NEVER** point this product at any person or any object for which its use is not intended.

- **ALWAYS** ensure that the air hose and valve connections are tight and secure.
- **DO NOT** use this product near flammable or combustible materials or in dangerous or explosive environments.
- **NEVER** leave the compressor running unattended and allow it to stop completely before moving away.
- Use this product **ONLY** for the recommended cycle time and allow at least ten minutes for it to cool before the next use, subject to environmental conditions.



**WARNING!** Extended continual use of the product may cause it to overheat and harm both the product and the operator.

- **ALWAYS** double-check tyre pressures against a BS 4613-compliant tyre pressure gauge after use.
- **NEVER** carry the compressor by the hose.



**CAUTION!** **NEVER** exceed the maximum pressure recommended by the manufacturer of the item to be inflated. Check the manufacturer information before every use and continually monitor the item during inflation.

## 4.5 Safety Information for This Product's Rechargeable Battery

**Important:** This product contains a sealed lead-acid battery. These instructions apply in addition to those listed in **4.3 Working With Lead-Acid and Other Vehicle Batteries**.



### **WARNING!**

**Risk of shock. DO NOT open.**

- **DO NOT** allow the on-board battery to entirely discharge as this may lead to warping of the battery or build-up of internal condensation when it is recharged.
- **ONLY** charge this product battery using the chargers supplied.
- Charge this product **ONLY** under the conditions outlined in this manual.
  - Charging the battery under any other conditions may cause it to overheat, leak, emit hydrogen gas, burst or ignite.
  - **NEVER** attempt to charge this product using a battery charger.
- Where possible, charge this product using the 230V AC transformer charger as this charging circuit is automatic and cannot be overcharged.
- Monitor the product frequently while it is being charged to reduce the risk of incidents while it is unobserved.
  - If the product is charged using the 12V DC power adaptor, it **MUST** be supervised **AT ALL TIMES** to prevent overcharging as this charging circuit is not automatic.
  - **NEVER** exceed the specified charging times when using the 12V DC power adaptor to charge this product.
- **DO NOT** charge this device in the vicinity of objects that may cause sparks or sources of heat or ignition.
- Ensure that **all** switches are in the off position before connecting a charger to this product.
- **DO NOT** attempt to damage, dismantle, modify or burn the on-board battery.
- **DO NOT** use this product if there is evidence of battery leakage.
  - If battery acid comes into contact with your skin, wash it off immediately with plenty of clean water.
  - If battery acid comes into contact with your eyes, flush them with plenty of clean water and seek medical attention immediately.

- The battery installed in this product is recyclable and must be removed by a suitably qualified person before the product is scrapped.
  - The product must be disconnected from external power supplies when removing the battery.
  - Insulate the terminals and dispose of the battery separately, in accordance with local regulations.

## 4.6 Connection to the Power Supply

This appliance is supplied with an approved plug and cable for your safety.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

The damaged or incomplete plug, when cut from the cable, shall be disabled to prevent connection to a live electrical outlet.

This product and its charger are Class II\* appliances and are designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

The fuse in the power supply for this product cannot be replaced. Contact Draper Tools for replacement options if the fuse in the supplied plug has blown.

If an extension lead is required, use an approved and compatible lead rated for this appliance.

Follow all the instructions supplied with the extension lead.

**Important:** Always follow the extension lead instructions regarding maximum load while the cable is wound. If in doubt, unwind the entire cable. A coiled extension lead generates heat which could melt the lead and cause a fire.

**\*Double Insulated:** This product is double insulated and does not require an earth connection to protect against electric shock from accessible conductive parts in the event of failure of the basic insulation.

## 4.7 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

# 5. Identification and Unpacking

## 5.1 Product Overview



- |                               |                                       |
|-------------------------------|---------------------------------------|
| (1) 12V DC output socket      | (12) LED worklight switch             |
| (2) Battery charge indicators | (13) Negative jump-start lead (black) |
| (3) Carry handle              | (14) Negative terminal clamp (black)  |
| (4) Charging indicator (red)  | (15) Polarity indicator               |
| (5) Charging socket           | (16) Positive jump-start lead (red)   |
| (6) Compressor hose           | (17) Positive terminal clamp (red)    |
| (7) Compressor hose coupler   | (18) Pressure gauge                   |
| (8) Compressor power switch   | (19) Test button                      |
| (9) Compressor unit           | (20) USB output port                  |
| (10) Jump-start lead isolator | (21) USB port power button            |
| (11) LED worklight            | (22) USB power indicator (green)      |



# 5. Identification and Unpacking

## 5.2 What's in the Box?

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- (A) 1 x Jump starter unit
- (B) 1 x 230V transformer charger
- (C) 1 x 12V DC power adaptor

- (D) 1 x Needle valve nozzle adaptor
- (E) 1 x Wide plastic nozzle adaptor
- (F) 1 x Narrow plastic nozzle adaptor

## 5.3 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.



**WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

Please visit [drapertools.com](http://drapertools.com) for our full range of accessories and consumables.

# 6. Charging Instructions

**Important:** Read and understand all the safety information in this manual before attempting to charge or operate this product.

**CAUTION!** This product **MUST** be charged for at least 30 hours immediately after purchase and at least once every two months thereafter.

**Important:** Monitor the product frequently during charging to reduce the risk of incidents while it is unobserved.

## 6.1 Charging the Jump Starter

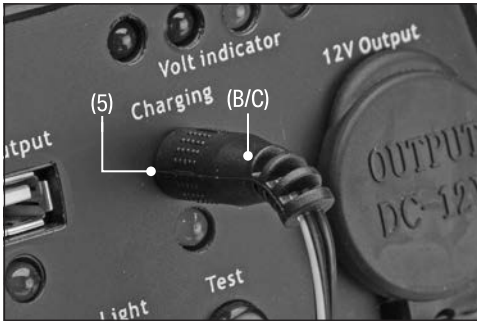


Fig. 1

The power pack can be charged using one of two methods:

- Connecting the 230V AC transformer charger (B) to the charging socket (5) and a mains power supply.
- Connecting the 12V DC power adaptor (C) to the charging socket (5) and a 12V DC power supply.

**CAUTION!** DO NOT insert the 12V DC power adaptor into the 12V DC output socket when charging this product.

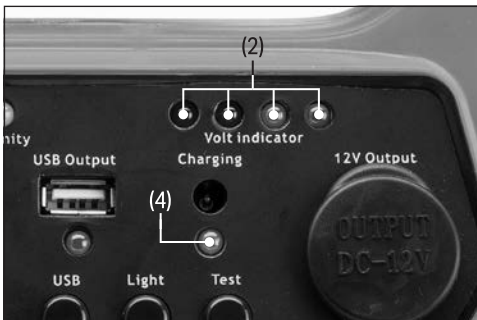


Fig. 2

The charging indicator (4) illuminates when the product is connected to an active power supply. The four battery charge indicators (2) illuminate as appropriate to indicate the current level of charge. When the green battery charge indicator is illuminated, the product is fully charged.

**Important:** If the product battery has fully discharged, it may take upwards of 30 hours to reach a full charge.

Draper Tools recommends that this power pack is kept on charge using the 230V AC transformer charger as much as possible when not in use. This charging circuit is automatic and will not overcharge.

**WARNING!** If the 12V DC power adaptor is used to charge the product, it **MUST** be supervised at all times and **MUST NOT** be charged for longer than the specified periods; see 6.2 Jump Starter Recharge Times.

**NEVER** charge the product overnight when using the 12V DC adaptor.

The jump starter will naturally lose charge while it is disconnected from a power supply.

## 6.2 Jump Starter Recharge Times

Approximately five hours of charging time is required to perform one jump-start. The product can perform up to six jump-starts on a full battery.

Number of jump-starts performed	Time to recharge (h)
1	5
2	10
3	15
4	20
5	25
6	30

**Important:** Important: Read and understand the safety information and instructions in this manual in full before attempting to operate this product.

## 7.1 Jump-Starting

**Important:** These instructions are intended as a guide **ONLY. ALWAYS** refer to the vehicle and battery manufacturer manuals for specific instructions relating to the vehicle to be jump-started as the procedure varies between vehicles. Any manufacturer instructions relating to other equipment to be used in the immediate area should also be consulted. Read all instructions in full **BEFORE** using this product.

**Important:** This product can only help to jump-start engines in good mechanical condition. When cranking the engine of vehicles with higher battery capacities, you may need to pre-charge the battery for approximately 15 minutes before attempting a jump-start.

**Important:** When jump-starting a diesel engine, preheat the glow plugs before cranking the engine to prevent them from being damaged.

**WARNING!** NEVER use the jump-start leads to charge a battery. NEVER jump-start a lithium-ion battery.

**CAUTION!** NEVER attempt to jump-start an engine while other devices are connected to the product.

1. If the vehicle battery is not a maintenance-free or sealed battery:
  - a. Remove the cell filler caps and check the level of electrolyte.
  - b. If necessary, top up the electrolyte to the manufacturer's recommended level using distilled or deionised water.

**CAUTION!** Top up with distilled or deionised water **ONLY. NEVER** top up lead-acid batteries with tap water.

**WARNING!** Battery fluid is corrosive. **DO NOT** touch the battery fluid or overfill the cells.

- c. Draper Tools recommends also checking the electrolyte density (specific gravity) using a hydrometer (not supplied) to ensure that the acid to water ratio is sufficient.

2. Clean the battery terminals with a dry cloth to optimise conduction with the terminal clamps.  
**Important:** **ALWAYS** wear protective gloves when handling battery terminals.
3. Measure the battery voltage for indications of deep discharge using a multimeter (not supplied) or a similar tool.

**Important:** Deep discharge constitutes discharging the battery to 20% or less of its full charge capacity and can cause significant damage to batteries not intended for use in this way. **DO NOT** attempt to jump-start a vehicle with a deep-discharged battery.

4. Ensure that the product's jump-start lead isolator (10) is in the off (O) position.
5. Refer to the vehicle and battery manufacturer instructions for guidance on connecting the terminal clamps (14) (17) to the battery terminals and performing a jump-start.

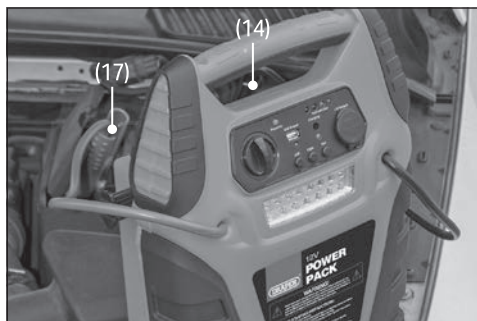


Fig. 3

6. Turn the jump-start lead isolator to the on (I) position **ONLY** when instructed to supply power in the vehicle manufacturer manual (Fig. 4).

The polarity indicator (15) illuminates green if the clamps are connected to the correct terminals. If the clamps are connected to the incorrect terminals, the polarity indicator illuminates red and an audible tone is emitted.

# 7. Operating Instructions

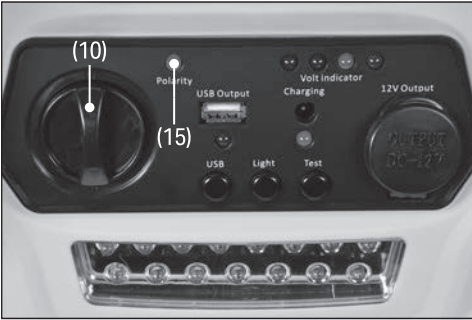


Fig. 4

**WARNING!** If the terminals are connected using the incorrect polarity, disconnect them IMMEDIATELY to avoid damaging the battery.

- Once the vehicle has started, the terminal clamps must be disconnected in the correct order:

**WARNING!** Failure to disconnect the clamps correctly may cause the jump starter to explode.

- The negative terminal clamp (14) **MUST** be disconnected from the battery within 15 seconds of the vehicle starting.
- Turn the jump-start lead isolator to the off (O) position.
- Disconnect the positive terminal clamp (17) from the battery and return the clamps to the jump starter housing.

## 7.2 Checking the Product Battery Charge



Fig. 5

The charge level of the jump starter can be viewed at any time by pressing and holding the test button (19). The battery charge indicators will illuminate to show the

current charge level of the product.

**Important:** If only one of the charging indicators is illuminated, charge the product as soon as possible.

## 7.3 Using the Product as a Power Source

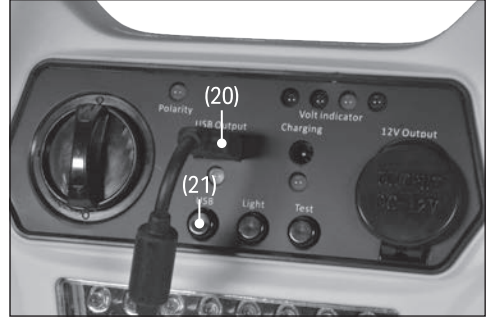


Fig. 6



Fig. 7

The jump starter may also be used to power external devices when mains power is not available. Devices may be connected to the USB output port (20) or 12V DC output socket (1) as appropriate.

The USB port power button (21) must be switched on in order to power external devices connected via USB. The USB power indicator illuminates when the USB output port is active and ready for use.

**Important:** Switch off the USB output port when it is not in use as it will drain the jump starter battery if left on.

**WARNING!** Disconnect all external devices from the jump starter when it is placed on charge or used for jump-starting.

# 7. Operating Instructions

The length of time that connected devices may be powered is dependent on their power consumption.

Appliance	Estimated power consumption (W)	Estimated usage time (h)
Fluorescent lights, mobile phones	4	25
Radios, electric fans	9	16
Spotlights	15	8
Electric tools, pumps	20	5
Electric coolers	48	2
Air compressors, car vacuums	70	1

**CAUTION!** ONLY charge external devices using their supplied cables. Class III appliances must be charged at safety extra-low voltage (SELV) corresponding to the marking on the device.

## 7.4 Using the On-Board Air Compressor

**Important:** This compressor is suitable for domestic tyres and sports equipment **ONLY**.

**Important:** ALWAYS follow the manufacturer's recommendations for pressure levels. After inflation, vehicle tyre pressure should ALWAYS be double-checked using a purpose-built tyre pressure gauge complying with BS EN 12645:1999.

**CAUTION!** DO NOT use the air compressor for more than ten minutes of continuous operation. Switch off the compressor and allow it to cool for at least ten minutes after use.

**CAUTION!** DO NOT use the air compressor while the jump starter is on charge.

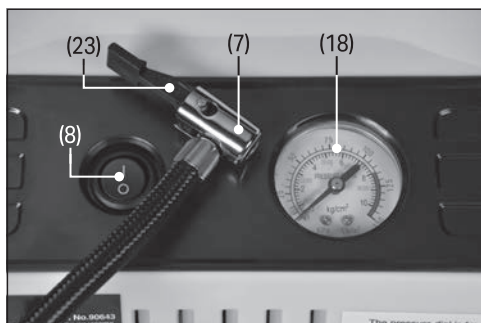


Fig. 8

The air compressor can be accessed by using the tab to open the lower panel on the rear of the product.

1. Ensure that the jump-start lead isolator (10) and compressor power switch (8) are both in their off (O) position and that the coupler lock tab (23) is open.
2. Insert any required nozzle adaptors into the compressor hose coupler (7) and press the lock tab downwards to secure it in place.  
**Important:** If no nozzle adaptor is inserted, keep the coupler lock tab open.
3. Remove any valve caps from the item to be inflated and insert or attach the hose coupler.  
**Important:** If no nozzle adaptor has been inserted, fit the coupler around the valve and press the lock tab downwards to secure it in place.
4. Check the compressor pressure gauge (18) and determine the required pressure.
5. Press the compressor power switch into the on (I) position and observe the pressure gauge.
6. When the required pressure is shown on the gauge, move the power switch to the off (O) position.
7. Remove the hose coupler from the item and replace the valve caps securely.

**WARNING!** The hose connector may be hot after use. Exercise caution when detaching it from a valve.

## 7.5 Using the Worklight

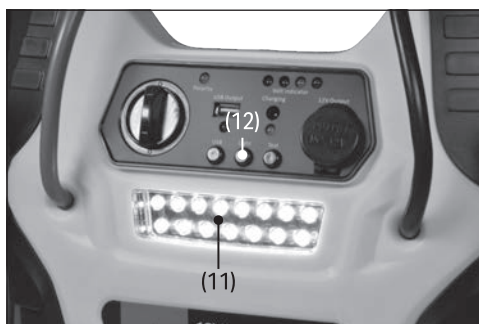


Fig. 9

The LED worklight (11) can be switched on and off by pressing the LED worklight switch (12).

**CAUTION!** DO NOT use the worklight while the jump starter is being charged.

## 8. Maintenance and Troubleshooting

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**WARNING!** Ensure that the jump-start leads are isolated and that no other loads are active on the product before performing any maintenance.

### 8.1 General Maintenance and Storage

This product contains no parts that are serviceable by the user. However, the product should be kept in good condition to ensure a long working life. Maintenance should be carried out **ONLY** by suitably qualified personnel authorised by Draper Tools.

- Charge the product for at least 30 hours immediately after purchase and at least once every two months thereafter.
  - When charging the product using the 230V AC transformer charger, monitor it regularly to reduce the risk of incidents during charging.
  - When charging the product using the 12V DC power adaptor, the product should not be left unattended at any time.
- For best results, use the 230V AC transformer charger and keep the product on charge as much as possible.
- **DO NOT** allow the on-board battery to become completely exhausted before recharging.
- Keep all ventilation openings and output ports clean from dust and dirt.
- Keep the air hose and adaptors clean and free from obstructions.

- Clean the product regularly using a dry cloth.



**CAUTION! NEVER** use aggressive chemicals to clean the product as these may damage the product frame.

- Store the product in a clean and dry location, out of direct sunlight and out of reach of children.
  - Ensure that all port covers are closed and sealed when storing the product.
  - Ensure that the jump-start leads are tidy and wrapped around the holders when the product is stored.
  - Ensure that there are no metallic objects nearby that may fall onto the battery and connect the terminals.
- Store the product in its upright position with the clamps attached to their clamping posts.
- When stored for extended periods, charge the battery periodically to maintain battery health.

**Important:** Poor storage conditions may significantly reduce the performance capabilities and lifespan of the product.

## 8.2 Troubleshooting

Problem	Possible Cause	Remedy
The jump-start leads are not powered.	The jump-start lead isolator is in the off position.	Turn the jump-start lead isolator to the on position.
	The battery terminals or terminal clamps are dirty and cannot conduct the current.	Clean the battery terminals and clamps and retry.
	The jump leads are damaged or faulty.	Disconnect the jump leads <b>IMMEDIATELY</b> and contact Draper Tools for support.
	The jump starter has low or no charge.	Disconnect and isolate the jump leads and charge the jump starter.
The compressor functions but does not inflate the item.	The connection to the item valve is not airtight.	Reattach the coupler to the valve, ensuring a secure fit.
	Air is escaping from the tool or inflated item.	Check that all connections at the compressor are airtight and that the compressor and hose are not leaking.  Check that the inflated item is not leaking.
The compressor inflates items slowly.	The compressor is overheating.	Unplug the compressor from the power supply and leave it to cool for approximately 30min.  Check that the air vents are clear and the battery pack is clean and dry.
	The voltage is too low.	Check the charge and condition of the battery pack.  Check the condition of the 12V socket, if in use.
The USB port is not working.	The USB port is not switched on.	Press the USB power button to activate the port; the green LED illuminates when the port is switched on.
	The port is clogged or obstructed.	Use compressed air to remove any debris inside the port.
	The port is damaged or faulty.	Contact Draper Tools for support.

## 9. Spares, Returns and Disposal

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For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.
- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.
- **DO NOT** abandon this product in the environment.
- This product's integral battery must be removed by a qualified person before the product may be disposed of.





**Important:** This product **MUST** be charged until full immediately after purchase. Failure to do so will invalidate your warranty.

Draper Tools products are carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Contact information can be found at the back of this manual.

Proof of purchase must be provided.

If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covers parts and labour for 12 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper Tools repair agent.

In all cases, to make a claim for faulty workmanship or materials within the standard warranty period, please contact or return the product to the place of purchase. Proof of purchase may be required.

If the place of purchase is no longer trading or if you experience any difficulties with your warranty, please contact Customer Services with the product details and your proof of purchase. Contact details can be found at the back of this manual.

If the tool is not covered by the terms of this warranty, repairs and carriage charges will be quoted and charged accordingly.

This warranty supersedes any other guarantees expressed or implied and variations of its terms are not authorised.

Your Draper Tools guarantee is not effective until you can produce, upon request, a dated receipt or invoice to verify your purchase within the guarantee period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

**Draper Tools Limited**

# 11. Explanation of Symbols



Read the instruction manual



**Warning!**



Danger! Risk of shock



Do not incinerate or throw onto fire



Do not abandon in the environment



Do not expose to rain or wet environments



Use only in well-ventilated areas



Warning! This product contains explosive materials



Keep away from any flame/fire.



For indoor use only; do not expose to rain



130°

Fuse protective device



Fail-safe safety isolating transformer



Polarity of the power connector



DC power



Max. starting cold cranking amps



Max. starting current



Max. pressure



USB output port



Double insulated



Product weight



**Integral lead-acid battery**

Dispose of the product battery correctly and responsibly



WEEE - Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



UK Conformity Assessed



European conformity



## Contact Details

### **Draper Tools**

Draper Tools Limited  
Hursley Road  
Chandler's Ford  
Eastleigh  
Hampshire  
SO53 1YF  
UK

**Website:** [drapertools.com](http://drapertools.com)

**Email:** [sales@drapertools.com](mailto:sales@drapertools.com)

**Product Helpline:** +44 (0) 23 8049 4344

**Telephone Sales Desk:** +44 (0) 23 8049 4333

**General Enquiries:** +44 (0) 23 8026 6355

**General Fax:** +44 (0) 23 8026 0784

### **Delta International**

Delta International BV  
Oude Graaf 8  
6002 NL  
Weert  
Netherlands

Please contact the Draper Tools Product Helpline for repair and servicing enquiries.