

EN

Original Instructions
Version 2



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

12V/24V JUMP STARTER

70554



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/24V Jump Starter, 3000A

Stock No: 70554

Part No: JS3000

1.2 Revisions

Version 1: September 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](https://www.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 for devices powered by 12V DC, 230V AC and 5V USB supplies.

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.	70554
Part No.	JS3000
Output	
Rated voltage	12V/24V
Max. starting CCA (Cold Cranking Amps)	1,200A (12V) / 600A (24V)
Max. starting current	3,000A (12V) / 1,500A (24V)
Power bank socket output	
12V DC adaptor	12V DC
USB port	5V/2.1A
230V AC (via integral DC to AC current inverter)	300W (max.)
Integral battery	
Type	2 x lead-acid sealed battery
Voltage	2 x 12V
Capacity	2 x 20Ah
Charger	
Input voltage	230V AC
Input frequency	50Hz
Output voltage	15V
Output current	1,000mA
Appliance Class	Class II
Jump lead length	670mm
Dimensions	W 350 x H 400 x D 250mm
Weight	13.8kg

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 48 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 power pack is switched off and that the jump leads are **NOT** powered before connecting a battery.
 - When jump-starting, the jump-start leads should remain off 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.
- **DO NOT** allow the on-board battery to entirely discharge as this may warp the battery or cause internal condensation.
- 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.

4. Health and Safety Information

- **NEVER** burn or mutilate batteries or products containing batteries as they may explode or release toxic substances.
- **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 and 24V 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 Additional Safety Information for Current Inverters

- **NEVER** attempt to jump-start an engine while the inverter is powered on.
- Due to the elevated load caused, this device is not intended to operate appliances that are designed to produce heat, such as hair dryers, toasters and heaters.



CAUTION! Some rechargeable devices are designed to be plugged directly into an AC power source. These devices may damage the inverter.

If in doubt, contact the manufacturer of the device before connecting it to the inverter. Draper Tools accepts no responsibility for the incorrect or inadvertent connection of such devices.

This problem is less likely to occur with battery-powered devices that include separate external charging equipment to be plugged into the AC power source. When powering delicate equipment, such as laptop computers, Draper Tools recommends using an anti-surge device in conjunction with the inverter.

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.

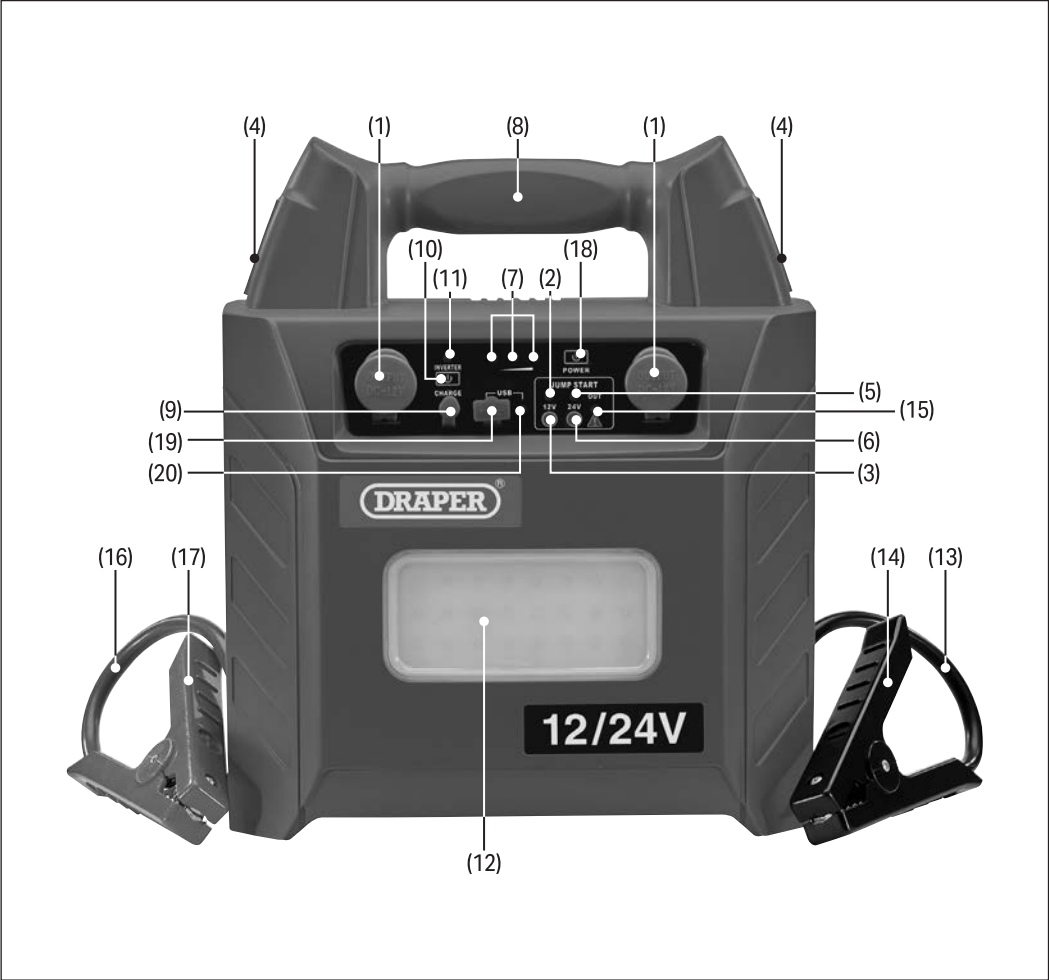
***Double Insulated:** This product is double insulated and does not require an earth connection to protect against electric shock from accessible conductive parts in the event of failure of the basic insulation.

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 | (11) | Inverter power indicator |
| (2) | 12V jump-start indicator | (12) | LED worklight |
| (3) | 12V jump-start selection button | (13) | Negative jump-start lead (black) |
| (4) | 230V AC outlets | (14) | Negative terminal clamp (black) |
| (5) | 24V jump-start indicator | (15) | OUT indicator |
| (6) | 24V jump-start selection button | (16) | Positive jump-start lead (red) |
| (7) | Battery charge indicators | (17) | Positive terminal clamp (red) |
| (8) | Carry handle | (18) | Unit power button |
| (9) | Charging socket | (19) | USB output port |
| (10) | Inverter power button | (20) | USB power indicator |

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

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 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 48 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

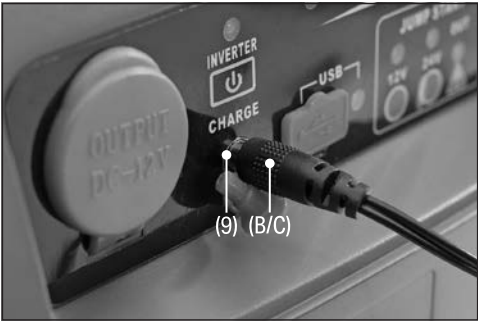


Fig. 1

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

- Connecting the 230V AC transformer charger (B) to the charging socket (9) and a mains power supply.
- Connecting the 12V DC power adaptor (C) to the charging socket (9) and a 12V DC power supply.

CAUTION! DO NOT insert the 12V DC power adaptor into the 12V DC output socket or the 230V AC transformer charger into the AC outlets when charging this product.



Fig. 2

When the product is connected to an active power supply, the three battery charge indicators (7) illuminate as appropriate to indicate the current level of charge. When the third battery charge indicator is permanently on, the product is fully charged.

Important: If the product battery has fully discharged, it may take upwards of 48 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: Read and understand the safety information and instructions in this manual in full before attempting to operate this product.

7.1 Powering the Product

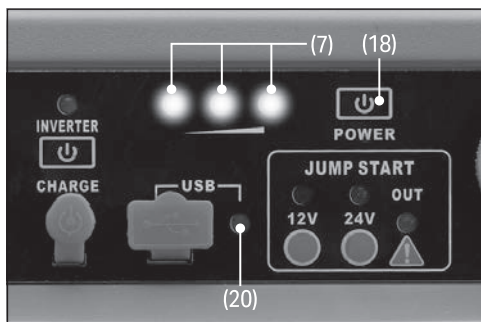


Fig. 3

To switch on the unit, press and release the unit power button (18). The battery charge indicators (7) and USB power indicator (20) illuminate when the unit is active:

- **Three LEDs illuminated:** The unit is fully charged.
- **Two LEDs illuminated:** The unit is adequately charged.
- **One LED illuminated:** The jump-start leads and inverter (230V AC outlets) cannot be used.
 - The USB output port and 12V DC output sockets may still be used.
- **Three flashing LEDs:** The unit is not charged and will automatically shut down after approximately ten seconds.
 - Charge the unit at the earliest opportunity.

Important: The jump starter leads are only active if either the 12V or 24V jump-start selection button (3) (6) has been pressed and both the corresponding jump-start indicator (2) (5) and the OUT indicator (15) are lit. This occurs automatically during the jump-start process or can be achieved manually by pressing the appropriate selector button.

WARNING! The jump-start leads should NOT be activated until you are instructed to do so as part of the jump-start process.

To turn off the jump-start leads, press and release the selector button of the voltage that has been activated. The jump-start leads are disabled when the selector indicators are no longer lit.

The unit must be switched on before the USB output port (19), 12V DC output socket (1) and AC outlets (4) can be used.

The unit will automatically power down after approximately 20 seconds of inactivity.

7.2 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.

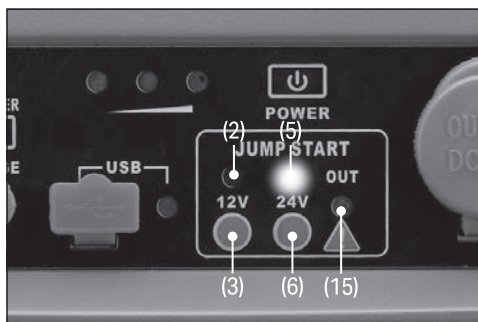


Fig. 4

7. Operating Instructions

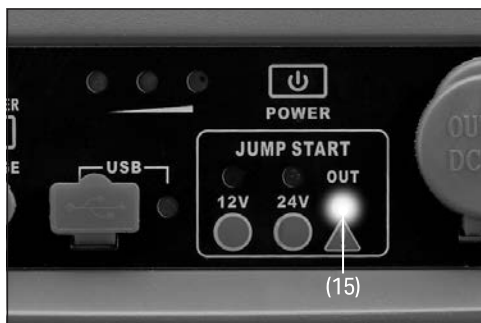


Fig. 5

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 neither of the jump-start selector indicators (2) (5) are illuminated and that the unit is switched off.
The unit powers down automatically after approximately 20 seconds of inactivity.

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.
Most vehicles require the positive clamp (17) to be connected before the negative clamp (14); **ALWAYS** follow the manufacturer instructions.
6. Press and release the unit power button (18):
 - a. Under normal conditions, the unit will automatically determine the correct circuit voltage and the appropriate jump-start indicator (2) (5) will illuminate.
 - b. After a couple of seconds, the OUT indicator (15) will also illuminate.
When this occurs, you may proceed with the jump-start process as instructed in the manufacturer guidance.



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

- If the unit is unresponsive, with no indicators lit and no audible tone sounding, the clamps may be poorly connected or the unit battery charge may be exhausted.
 - If the clamp connections are correct but the audible tone continues to sound, the vehicle battery charge may have dropped too low for the unit to determine the correct voltage required. If this occurs, see **7.3 Jump-Starting a Low-Charged Battery**.
7. 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.
 - a. The negative terminal clamp (14) **MUST** be disconnected from the battery within 15 seconds of the vehicle starting.
 - b. Press the appropriate voltage selector button to disable the jump-start leads.
Important: The corresponding selector indicator will go out when the jump-start leads are disabled.
 - c. Disconnect the positive terminal clamp (17) from the battery and return the clamps to the jump starter housing.

7.3 Jump-Starting a Low-Charged Battery

In the event that the vehicle battery charge has dropped too low and the unit cannot determine the correct voltage required, perform the following steps:

1. Remove the clamps from the vehicle and its battery.
2. Manually select the appropriate voltage according to the vehicle or battery manufacturer instructions by pressing and holding the appropriate jump-start selector button (3) (6) for approximately two seconds.
3. The corresponding jump-start indicator (2) (5) will illuminate, and the unit will sound a repeating audible tone.
4. Wait for approximately two seconds until the OUT indicator (15) illuminates.
5. Reconnect the clamps as directed in the vehicle manufacturer's instructions and resume the jump-starting process.

Important: The vehicle should start within 30 seconds. If this does not occur, repeat this process.

7.4 Using the 12V DC and USB Outlets

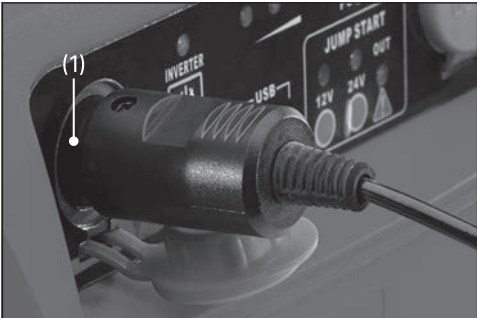


Fig. 6

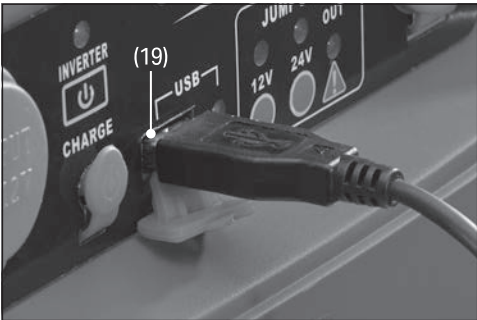


Fig. 7

External devices can be powered via the USB output port (19) or 12V DC output socket (1) when mains power is not available.

To use the 12V DC and USB outlets, press and release the unit power button (18) to switch on the unit. The 12V DC and USB outlets become active automatically.

If an external device is connected, the appropriate outlets will remain active after the unit control panel automatically powers down after 20 seconds of inactivity. If the USB output port is in use, the USB power indicator (20) remains lit. The unit powers down automatically approximately 20 seconds after the last external device is disconnected.

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

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. Operating Instructions

7.5 Using the AC Outlets

External devices can also be powered via the 230V AC outlets (4) on the top of the unit.

Important: Draper Tools recommends avoiding the connection of devices with an inductive load (e.g. devices containing a motor) as these may require a higher current during start-up.

Most electrical tools, appliances and other devices have a rating plate or label that indicates the power consumption of the equipment. This is listed in amperes (A) or watts (W).

Before connecting any equipment to the inverter's AC outlets, calculate the combined power consumption of any devices that will be connected simultaneously. The combined power consumption **MUST NOT** exceed the maximum capacity of the inverter (300W).

If the power consumption is listed in amps, multiply the value by the voltage (230V) to determine the wattage.

If the combined power consumption is less than the maximum capacity of the inverter:

1. Plug the devices to be powered into the inverter's AC outlets (4).

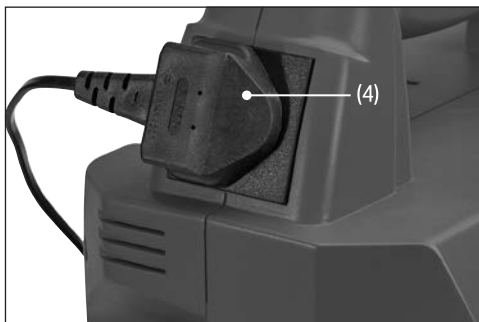


Fig. 8

2. Once all devices are connected, press the unit power button (18) to switch on the product. The battery charge indicators (7) illuminate when the product is powered.

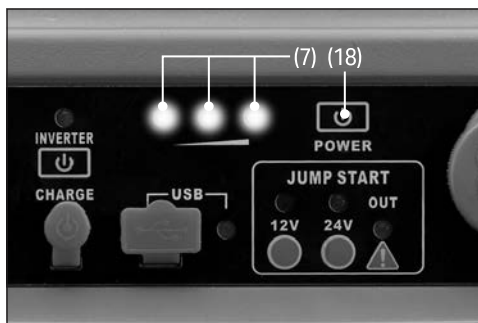


Fig. 9

3. Wait a few moments and then press and hold the inverter power button (10) for three seconds.

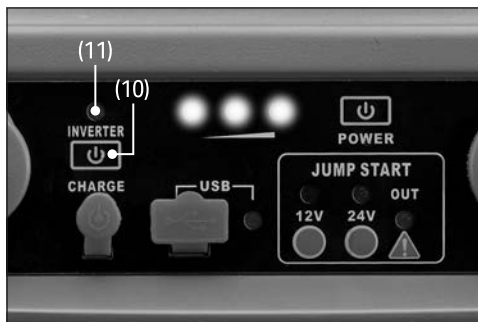


Fig. 10

4. When the inverter power indicator (11) illuminates red, the AC outlets are active.

CAUTION! DO NOT switch on the connected devices until after they have been connected to the inverter.

Important: If more than one device is connected at any one time, switch the item with the larger power consumption on first, followed by the remaining device(s), to reduce the risk of the start-up loads overloading the inverter.

If an external device is connected, the appropriate outlets will remain active after the unit control automatically panel powers down after 20 seconds of inactivity.

To switch off the inverter and the 230V AC outlets, press and release the inverter power button.

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

7.6 Using the Worklight

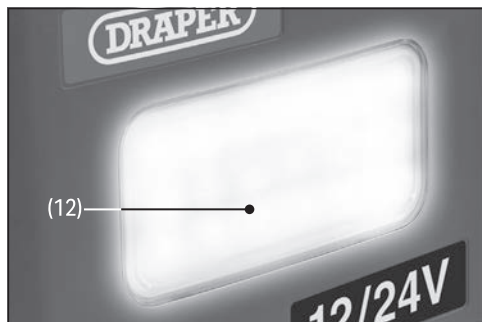


Fig. 11

To switch on the LED worklight (12), press and hold the unit power button (18) for approximately two seconds. The unit does not have to be powered for the worklight to be switched on.

Once the light is on, press the unit power button again to switch it to emergency (flashing) mode.

Press the unit power button again to switch off the light.



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

7.7 Safety Cut-outs

The jump starter is equipped with the following safety cut-out features:

- AC short circuit
- Overload protection
- Over-temperature protection
- Battery low voltage protection

If a safety cut-out is triggered at any time, an audible alarm tone will sound twice and the unit will shut down immediately. Safely disconnect the unit from any connected batteries or devices and allow at least 15 minutes for it to cool. Rectify any identifiable issues before attempting to resume use of the product. If the problem persists, contact Draper Tools for support.

8. Maintenance and Troubleshooting



WARNING! Ensure that the power pack is switched off 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 48 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.
- 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 the clamps attached to their 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 operating.	The vehicle battery charge is too low to determine the required voltage.	Follow the steps in 7.3.
	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 IMMEDIATELY and contact Draper Tools for support.
	The jump starter has low or no charge.	Disconnect and power down the jump starter, then charge the unit.
The USB port or 12V DC socket is not working.	The unit is not switched on.	Press the unit power button to switch on the unit and connect an appropriate device within 20 seconds.
	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.
The 230V AC outlets are not working.	The inverter is not switched on.	Follow the steps in 7.5.
	The inverter has been overloaded or is faulty.	Contact Draper Tools for support.

9. Spares, Returns and Disposal

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.



10. Warranty

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

EN



Read the instruction manual



Polarity of the power connector



Double insulated



Warning!



Rated voltage



Wear protective goggles



Danger! Risk of shock



AC power



Wear protective gloves



Do not incinerate or throw onto fire



DC power



Keep out of the reach of children



Do not abandon in the environment



Integral battery capacity



Product weight



Do not expose to rain or wet environments



Max. starting cold cranking amps



Integral lead-acid battery

Dispose of the product battery correctly and responsibly



Use only in well-ventilated areas



Max. starting current



WEEE – Waste Electrical & Electronic Equipment

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



Warning! This product contains explosive materials



DC to AC output inverter



UK Conformity Assessed



Keep away from any flame/fire.



Integral lead-acid battery



European conformity



For indoor use only; do not expose to rain



USB output port



Fuse protective device



LED power indicators



Fail-safe safety isolating transformer



Reverse polarity protection

Contact Details

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