

EN

Original Instructions
Version 1



12/24V 3000A

JUMP STARTER

23779, 23782



IMPORTANT
This product must be charged immediately after purchase and recharged every 2 months to maintain its performance

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

Stock No: 23779, 23782

Part No: GT12, GT24

1.2 Revisions

Version 1: April 2024

First release

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

Download the latest version from:

drapertools.com/manuals

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 designed as a heavy-duty vehicle battery jump starter, suitable for use with cars, vans, light commercials & boats. It can also be used as a portable power source for devices powered by a 12V DC supply.

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



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

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

3.2 Specification

Stock No.:	23779	23782
Part No.:	GT12	GT24
Rated voltage:	12V	12V/24V
Peak current:	3000A	12V 3000A/24V 1500A
Crank current:	1200A	12V 1200A/24V 600A
Capacity:	2 × 22Ah	2 × 22Ah
Petrol Engine:	10L	10L
Diesel Engine:	8L	8L
Integral battery:	lead-acid sealed	lead-acid sealed
DC Output:	2 × 12V (10A)	2 × 12V(10A)
Charging Adaptor:		
Input voltage:	230V AC	230V AC
Input frequency:	50Hz	50Hz
Output voltage:	12V/3A	12V/3A
Product Class:	Class II	Class II
Dimensions (L×W×H):	270 × 170 × 330mm	270 × 170 × 330mm
Weight:	17.3kg	19.5kg

Important: To maintain the health of the integral battery, this product must be fully charged **IMMEDIATELY** after purchase; see **7.1 Charging the Jump Starter**.



Read the instruction manual



Mandatory action required



Warning!



Warning Electrical hazard – risk of electrocution!



Do not incinerate or throw onto fire



Rated voltage (*23782 only*)



Alternating Current



Direct Current



Capacity



Lead-acid battery



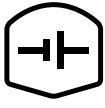
Max. Petrol engine capacity



Max. Diesel engine capacity



Reverse polarity protection



Short-circuit protection



Net product weight (*23782 only*)



Lead-acid content



WEEE –

Waste Electrical & Electronic Equipment

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



European conformity



UK Conformity Assessed

5. Health and Safety Information

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

5.1 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 50°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.

5.2 Additional Safety Instructions for Jump Starters



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.



CAUTION! The jump start function of this product is suitable for use on 12V and 24V DC circuits ONLY.

- Use this product 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 is switched off before connecting the leads to 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 correct way round.
- **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.

5.3 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 cool, 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.



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

5.4 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 5.3 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 charger supplied.
- Monitor the product frequently while it is being charged to reduce the risk of incidents while it is unobserved.
- **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.
 - 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 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.
- **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 the product.

5. Health and Safety Information

5.5 Connection to the Power Supply

This appliance is supplied with an approved plug and cord 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 cord, 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.

***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.

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.

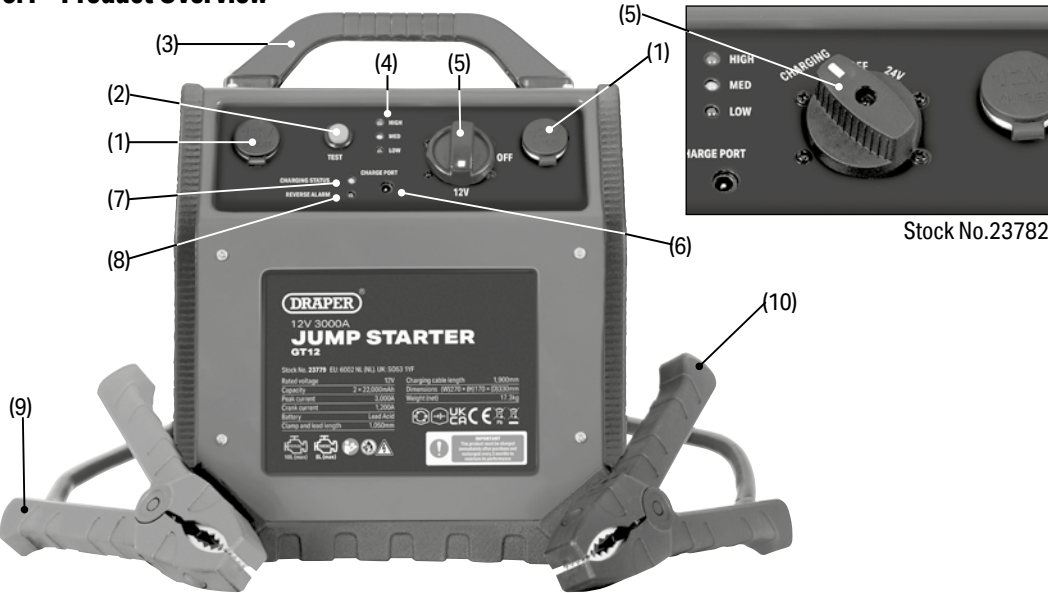
5.6 Residual Risk

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.

6. Identification and Unpacking

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6.1 Product Overview



Stock No.23782



- (1) 2 × 12V DC output socket
- (2) Test button
- (3) Carry handle
- (4) Battery charge indicators
- (5) 12V/24V jump start selector
- (6) Charging socket
- (7) Charging status light
- (8) Reverse alarm light
- (9) (+) Positive jump start lead and clamp (red)
- (10) (-) Negative jump start lead and clamp (black)
- (11) Clamp storage holders
- (12) 230V mains charger

6. Identification and Unpacking

6.2 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](https://www.drapertools.com)** for our full range of accessories and consumables.

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

7.1 Charging the Jump Starter

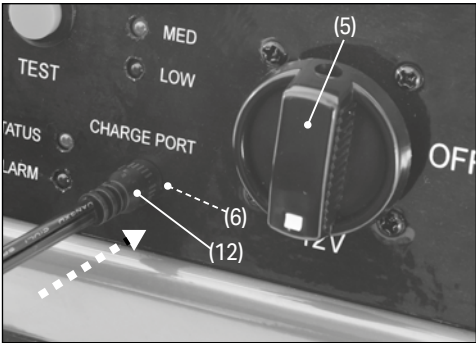


Fig. 1

1. Turn the voltage selector (5) to the 12V position.
2. Connect the charger (12) to the charging socket (6) and a mains power supply.
3. Continue charging until the charging status light (7) turns from red to green.
4. After charging turn the voltage selector to the 'OFF' position and unplug the charger.
 - The jump starter will naturally lose charge while it is disconnected from a power supply.

7.2 Checking Jump Starter Battery Status

1. Press the **TEST** button (2) to check the voltage status of the Jump Starter battery.

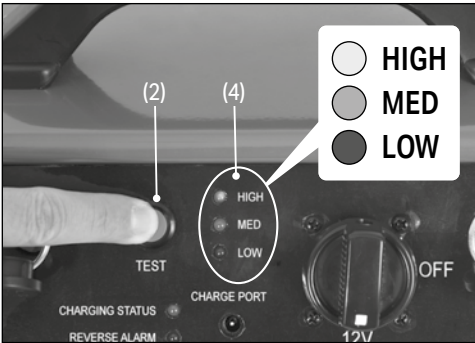


Fig. 2

Status Lights		Action Required
HIGH	Green	Fully Charged and ready to use.
MED	Yellow	Charge as soon as possible.
LOW	Red	Charge immediately

7.3 12V Output Sockets

The two 12V / 10A output sockets (1) can be used as a power source for products fitted with a 12V DC supply such as tyre inflators and car vacuum cleaners.

- Use the **TEST** button (2) to check that the Jump Starter is fully charged before using the 12V output sockets. Always recharge the jump starter after using the output sockets.

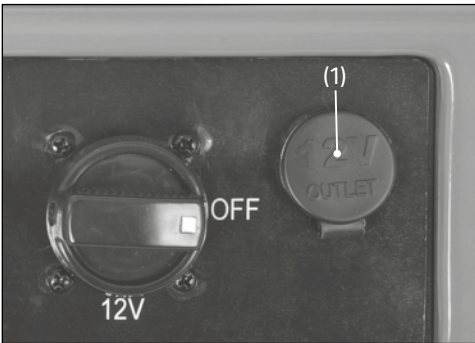


Fig. 3

8. Operating Instructions

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

8.1 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.



WARNING! NEVER jump start a lithium-ion battery.



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

1. Clean the battery terminals with a dry cloth to optimise conduction with the terminal clamps.
Important: ALWAYS wear protective gloves when handling battery terminals.

2. Turn the vehicle's ignition off and check that the Jump Start selector (5) is in the 'OFF' position.



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, turn the voltage selector (5) to the OFF position.

3. Connect the positive clamp (9) to the (+) terminal of the vehicle's battery and then connect the negative clamp (10) to the vehicle's chassis or engine block away from the battery (-) terminal.
 - **ALWAYS** refer to the vehicle and battery manufacturer's instructions for guidance on connecting the terminal clamps to the battery terminals and performing a jump start.
4. Turn the voltage selector (5) to 12V or 24V (23782 only) to start the jump start process:
 - If the Reverse Alarm (8) begin to flash and an audible tone is heard, the clamps have been connected to the wrong terminals. Remove and reconnect the correct way round.



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

5. Start the engine for 3 – 5 seconds. If the engine does not start within 10 seconds, stop, and wait 4 minutes before retrying.
6. Once the vehicle has started turn the voltage selector to the 'OFF' position. Then disconnect the clamps in the correct order - negative terminal clamp (10) first then the positive clamp (9) .



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

7. Once the jump start leads are disabled return the clamps to the storage area (11) on the jump starter.



WARNING! Ensure that the jump start leads are isolated and that the voltage selector (5) is in the 'OFF' position before performing any maintenance.

9.1 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. When stored for extended periods, charge the battery periodically to maintain battery health.
- **DO NOT** allow the on-board battery to become completely exhausted before recharging.
- Clean the product regularly using a dry cloth.



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

- 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 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 holders (11).

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

9.2 Troubleshooting

Problem	Possible Cause	Remedy
The jump-start leads are not operating.	The battery terminals or terminal clamps are dirty and cannot conduct the current.	Clean the battery terminals and clamps. Then 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 the jump leads and charge the jump starter.
Reverse Alarm LED red light and beeping.	Reverse polarity alarm activated due to clamps connected incorrectly.	Ensure the clamps are fitted to the correct terminals.
	Socket overloaded and automatic circuit overload protection activated.	Check that output current for the product is below 15A. Leave for a few minutes before retrying.
12V outlet sockets are not working.	Socket overloaded and automatic circuit overload protection activated.	Check that output current for the product is below 15A. Leave for a few minutes before retrying.
	The port is damaged or faulty.	Contact Draper Tools for support.
	The Jump starter has low or no charge	Charge the jump starter.

10. 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.



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

Contact Details

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