

Jefferson[®]

PROFESSIONAL TOOLS & EQUIPMENT



Dynamo

430A STARTER
CHARGER



JEFSTACHG430

User Manual
v.1.1



CONTENTS

Introduction	4
Specifications	4
Unpacking & Assembly	4
Equipment Identification	4
Safety Warnings	5
Equipment Safety Guidelines	6
Electrical Safety	7
Electrical Wiring Diagram	7
Operation Guide	8
Maintenance	10
Troubleshooting	10
Environmental Protection	11
WEEE Waste Electrical and Electronic Equipment Statement	11
Parts List & Diagram	12
EC Declaration of Conformity	13
Limited Warranty Statement	14

Important: Please read all these instructions before operating this product and save these instructions. This manual has been compiled by Jefferson Tools and is an integrated part of the product with which it's enclosed and should be kept with it for the future reference.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential life span of the equipment.

All photographs and drawings in this manual are supplied by Jefferson Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning.

NOTE: The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of this equipment. Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own equipment. Contact your nearest Jefferson Dealer if you are unsure about any information included in this manual or require any additional information about the safe use, operation maintenance, or repair of this equipment.

INTRODUCTION

- 430A single phase battery / starter charger with sturdy plastic and steel housing and carry handle
- 12/24V battery voltage
- Well ventilated to help maintain low temperatures during operation
- Large ammeter display showing rate of charge
- Dash-mounted fuse and polarity protection
- Variable charging rate
- Supplied with a pair of fully insulated positive and negative charging clamps which can be stored within the equipment casing
- Suitable for charging regular and low maintenance batteries between 60 - 800Ah

SPECIFICATIONS











TECHNICAL DATA

Model Number:	JEFSTACHG430	Duty Cycle: @ 5 Cycles	5 sec ON / 30 sec OFF
Input Voltage:	230V ~ 50Hz	Battery Capacity:	60 - 800Ah
Input Power:	130W	Fuse:	2 x 50A
Output Voltage:	12V / 24V	Ingress Protection Rating:	IP21
Output Charge Peak(EN):	75A (30A)	Safety class (DIN 40530):	II
Output Start Peak(EN):	400A (300A)	Power Cable / Plug:	3x 1.5mm x 2.4M / 13A
Input (Charge):	0.4A	Charge Cables:	14mm x 2.0M
Input (Start):	3A	Weight / Dimensions:	15kg / 300 x 230 x 630mm

EQUIPMENT IDENTIFICATION



SAFETY WARNINGS

	Please read and ensure that you understand all of the operating instructions, safety precautions and warnings in this user manual before operating or maintaining this equipment. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures. Hazards that must be avoided to prevent bodily injury or machine damage are identified by warnings on the equipment and in this user guide. Never use this equipment or modify it in any way that has not been specifically recommended by the manufacturer. Contact Jefferson Tools for all information relating to the repair and maintenance of this equipment. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment. Keep a copy of this user guide with the equipment for future reference.
	Wear suitable eye protection during operation.
	Wear safety gloves during operation.
	Wear safety gloves during operation.
	Electrical hazard. Follow electrical safety guidelines before use.
	Potentially explosive materials and gases. Read equipment operating guidelines and safety information for the battery before charging.
	Risk of explosive gases. Do not use near explosive or flammable materials. Keep away from sources of ignition.
	Only use in well-ventilated environments.
	Keep equipment dry at all times. Do not operate in wet conditions. Store in a dry environment.
	Equipment should not be disposed of with household waste. Follow WEEE guidelines for disposal.

EQUIPMENT SAFETY GUIDELINES



Read and ensure that you understand all of the operating instructions, safety precautions and warnings in this instruction manual before operating or maintaining this equipment. Most accidents that result from equipment operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures. Hazards that must be avoided to prevent bodily injury or machine damage are identified by warnings on the equipment and in this Instruction Manual. Never use this equipment or modify it in any way that has not been specifically recommended by the manufacturer. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment.

General Safety

- Familiarise yourself with the application and limitations of the charger as well as the potential hazards that can occur during operation.
- Also refer to the vehicle manufacturer's hand book before connecting the equipment to a battery.
- Ensure the equipment is in good order and condition before use. Do not use the equipment if it is damaged. Contact your Jefferson Dealer for advice on repair and replacement parts. Do not use any non-approved approved parts for maintenance or repair.
- Do not attempt to modify or use the equipment for any other use than it is designed for.
- Never use the charger outdoors, or in damp, or wet locations.
- Ensure the charger is kept away from flammable liquids, gases and sources of ignition.
- Do not attempt to operate the charger inside a vehicle or engine compartment.
- Only use the charger in the upright position and ensure it is placed on a stable surface which will adequately support its weight.
- Ensure the charger is disconnected from the mains supply before connecting and disconnecting the power clamps to and from the battery.
- It is important to ensure tools and other equipment are kept away from the engine during charging and ensure that you can see the battery and working parts of engine clearly while charging.
- If necessary top-up the battery with distilled water (always refer to the battery manufacturer's instructions and seek advice if required.)
- Ensure that the battery terminals are clean and free from any corrosion before attaching the charging clamps.
- Keep animals, children and unauthorised persons away from the working area.
- The charger must only be checked by qualified service personnel. Contact Jefferson Tools for advice on all aspects of servicing and repair.
- Never attempt to charge a non-rechargeable battery or a battery with frozen battery fluid.
- Keep metal tools away from the charging area in order to prevent the risk of sparking, short circuit and possible explosion if they come into contact with the battery terminals.
- Never allow power clamps to touch each other or to make contact with any metallic part of the vehicle.
- Do not allow the leads to cross connect from the charger to battery. Ensure positive (+/RED) is to positive and negative (-/BLACK) is to the negative terminals.
- Ensure the output of the charger is the same voltage as the battery.
- The charger must be operated in a well ventilated environment to prevent the build up of explosive gases from a lead acid battery
- Ensure that the ventilation grilles on the battery charger are kept clear during operation, the equipment should be positioned so as to allow a free current of air to pass through the vents.
- If battery has caps to access the battery fluid, remove the caps and check the fluid level before connecting the power clamps.
- Never simultaneously charge batteries of different capacities or discharge levels.
- The state of charge should be regularly monitored by the person with responsibility for charging the battery. For this reason it is important that you never leave the charger operating unattended or overnight.
- If a fuse blows, ensure it is replaced with an identical fuse type and rating (please refer to the equipment specification plate). Contact Jefferson Tools for advice and information on genuine parts.

Battery Safety

- Do not expose the charger to rain or snow. Do not operate in damp conditions. Store in a clean, dry environment.
- Working in vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason it is important that you follow the instructions listed in this manual as well as those published by the vehicle / battery manufacturer.
- Ensure that you have a bath or sink of fresh water and soap nearby in case battery acid comes into any contact with skin, clothing, or eyes.
- Wear appropriate eye protection and clothing protection (gloves, overalls etc.) when working with the charger.
- Avoid touching your eyes while working near a battery.
- If battery acid comes into contact with skin or clothing, wash immediately with soap and water.
- If acid enters the eye, immediately flood the eye with running cold water for at least 10 minutes and seek medical attention immediately.
- All lead-acid batteries produce hydrogen gas which may violently explode in the presence of fire or sparks.
- Do not smoke, use matches or a cigarette lighter while near batteries.
- Do not handle the battery while wearing vinyl clothing because, static electricity sparks are generated when vinyl clothing is rubbed.
- Do not drop tools or other metal objects on or near the battery as a spark may result, igniting explosive gases.
- Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead acid battery.
- A lead-acid battery can produce a short-circuit current high enough to weld a ring or other jewellery to metal, causing a severe burn.
- Use the charger for charging Lead Acid batteries only.
- Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances.
- These batteries may burst and cause injury to persons and damage to property.
- Never attempt to charge a frozen battery.

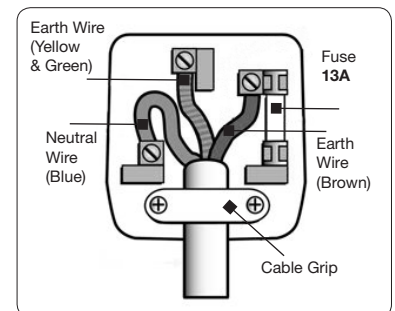
ELECTRICAL SAFETY



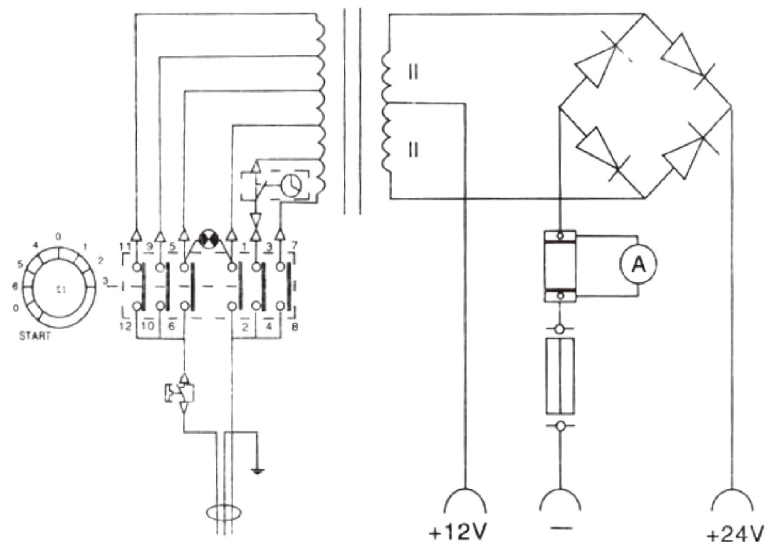
Ensure that you check the equipment thoroughly to ensure it is safe and fit for purpose before each use. It is important that you inspect all plugs, sockets, power cables and electrical fittings for wear and damage and repair or replace any defective components.

The risk of electric shock can be minimised by the correct use of the appropriate electrical safety devices. If a fuse blows, ensure it is replaced with an identical fuse type and rating (please refer to the equipment specification plate). Contact Jefferson Tools for advice and information on genuine parts.

- We recommend that you fit a **Residual Current Circuit Breaker (RCCB)** in the main distribution board and that a **Residual Current Device (RCD)** is used when operating this equipment.
- The **Electricity at Work Act 1989** includes legislation that places legal implications on employers to ensure the safety of electrical devices in the workplace. The regulations dictate that all portable equipment must be inspected regularly and tested to ensure that it is safe for use. 'Portable equipment' means any electrical item that can be moved and this is often referred to as **Portable Appliance Testing (PAT)**. PAT testing should be carried out regularly on this equipment by trained, authorised personnel, as required by the legislation.
- The **Health and Safety at Work Act 1974** states that it is the responsibility of the owner of electrical appliances to ensure that both the equipment and working environments are maintained to ensure safe operation at all times.
- Check that all equipment cables are secure, correctly insulated, free from damage, and protected against short circuit and overload before connecting to the power supply. Do not use worn or damaged cables, plugs, sockets or other fittings.
- Ensure that the power supply matches voltage requirements specified on the equipment and that the plug is wired correctly and fitted with the correct fuse.
- If the electrical fuse blows, ensure it is replaced by an identical type of fuse with the same rating.
- Never pull or manoeuvre this equipment into position using the power cable.
- Ensure the power cable is kept away from heat, oil and sharp edges.
- We recommend that the equipment is connected directly to the power supply without the use of extension leads as the resulting voltage drop can reduce performance.
- Always disconnect the charger from the power source and disconnect the charging clamps before servicing, inspecting, maintaining, cleaning, replacing or checking any parts.
- Do not use the charger in damp or wet conditions.



ELECTRICAL WIRING DIAGRAM



OPERATION GUIDE

Preparing the Battery

1. If it is necessary to remove the battery from the vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so removal will not cause an arc.
2. Clean the battery terminals with a mixture of baking soda and hot water. Be careful to keep corrosion from coming in contact with eyes.
3. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. This helps purge excessive gas from cells. Do not overfill.
4. Observe the instructions and safety precautions in the battery manufacturer's specific precautions (for example find out whether the cell caps should be removed and determine the recommended charging rate for the battery.)
5. Determine the required voltage for the battery before connecting to the charger.

Equipment Setup

1. Check that the equipment is clean and free from any damage.
2. Set up the charger near the battery on a sturdy, level surface free from sources of ignition and any flammable materials. Ensure that there is sufficient ventilation to prevent the buildup of gases and check that the ventilation grilles are not blocked to allow clear current of cool air.
3. Ensure that you are wearing the necessary safety equipment as described previously in this manual.
4. Ensure that the charging area is kept clear and safe during operation, monitor the charger and the battery during the charging process. Avoid using any metal tools in and around the charger and the battery. Keep children and animals away from the charging area.
5. Connect the charging clamps to the matching electrodes on the battery:
Red Clamp = Positive (+) - connect to the Positive (+) battery terminal
Black Clamp = Negative (-) - connect to the Negative (-) battery terminal
6. Connect the end of the charging clamps to the corresponding voltage terminal on the charger control panel (**12V** / **24V**).
7. Select the required mode (**Battery Charging** or **Starter Charging**) using the rotary dial **(A)** as shown in **Figure 1**.
8. For charging mode, select the required charging rate using the rotary dial **(A)** and select the required setting on the Timer **(B)** as required.



Figure 1.

Charging

1. Check the current delivery to the battery by reading the ammeter on the front of the battery charger. During charging the digital display will change to show the capacity and condition of the battery.
 2. To indicate that the battery is fully charged the reading on the ammeter should be at the "0" output indicator. To correspond with this the electrolyte in the battery will begin to gas. Stop charging at this point in order to protect the battery plates from damage.
- Please note:** The charger will not switch off automatically when the battery is fully charged. The state of charge should be regularly monitored by the person with responsibility for charging the battery. For this reason it is important that you never leave the charger operating unattended or overnight.
3. **When charging is complete** set the power switch to **OFF** to stop charging. Unplug the charger from the mains power supply and then disconnect the clamps from the battery terminals. Clean and store the charger in a safe, dry area.
 4. Replace the battery electrolyte cover or caps. Wipe up any splashes or spillages, remembering that the electrolyte is a corrosive acid. Return the battery to the vehicle, secure according to the manufacturer's instructions and re-connect the power leads as required. Check to ensure that all tools are removed before closing the bonnet or boot.

Charging A Battery That Is Installed In A Vehicle



WARNING: Marine (boat) batteries should be removed and charged on shore.

To charge it on board requires equipment specially designed for marine use.

Position all cables in a manner that will reduce the risk of damage by the vehicle's bonnet, door, or moving engine parts. Stay clear of fan blades, belts, pulleys, and other parts that can cause injury to persons.

Check the polarity of the battery terminals. POSITIVE (POS, P, +) battery terminal usually has larger diameter than the NEGATIVE (NEG, N, -) terminal.

Determine which battery terminal is grounded (i.e. connected to the vehicle chassis.) If the negative terminal is grounded to the chassis (as in most vehicles), refer to **Figure 3**. If the positive terminal is grounded to the chassis, refer **Figure 4** for connection.

For a negatively grounded vehicle, connect the Positive (Red) clamp from the battery charger to the Positive (POS, P, +) ungrounded terminal on the battery.

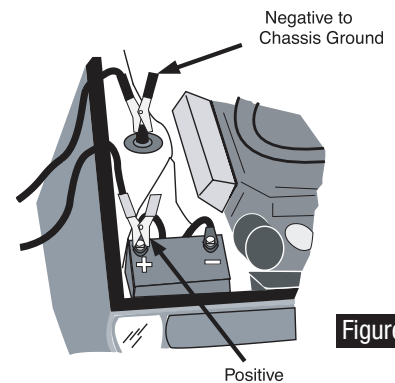


Figure 3.

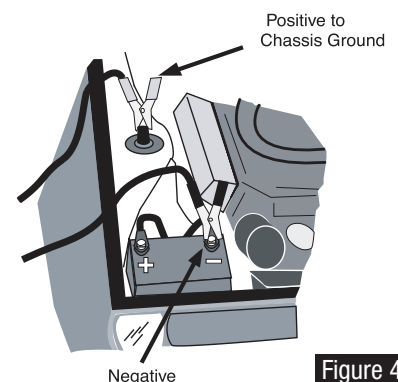


Figure 4.

Sealed Batteries

Charge sealed batteries on a slow charge rate, carefully monitoring the voltage across the battery terminals using a normal tester. When the battery terminal voltage reaches 14.4V for 12V batteries or 28.8V for 24V batteries, stop charging.

Multiple Battery Charging

A number of batteries may be charged at the same time using a parallel connection as shown in **Figure 5**. Two batteries may be charged in series using the 24V output as shown.

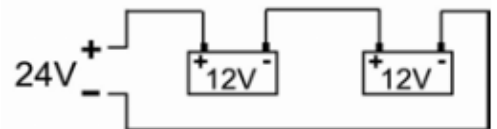
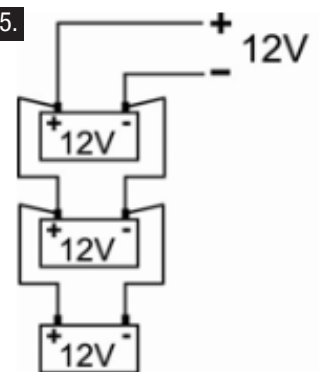


Figure 5.



Fuses

The charger is equipped with 2x **50A** front panel mounted fuses (**A**) as shown in **Figure 6**.

The fuse will interrupt the circuit in the following circumstances:

- a) Overload - when excessive current is delivered to the battery.
- b) Short circuit - clamps touch, or cross-connection to battery.

If the output fuse blows you can take the following action to replace it immediately:

1. Disconnect the charger from the mains power supply.
2. Allow the unit to cool down and establish the reason for fuse blowing and correct the problem.
3. Replace the fuse. Do not use a fuse with copper bridge or similar as these will damage your starter charger. Refer to the specifications for your charger to determine the type of fuse you require. We recommend that you hold 2 spare fuses with the charger.

Thermal Protection

- When a high current causes the charger to overheat the internal thermal protection will cut off the current.
- When the charger has cooled sufficiently it will automatically reconnect.

Please Note: Any equipment damage caused by the use of an incorrect fuse will invalidate the warranty.



Figure 6.

A

MAINTENANCE

CAUTION: Make sure charger is unplugged from the electrical outlet and charging clamps are disconnected from the battery before performing any servicing or maintenance. Contact Jefferson Tools for advice and information on repair and genuine replacement parts.

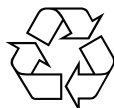
A minimum amount of care can keep your battery charger working and looking good for years. Here are some simple steps you can take to ensure safe and efficient operation of this equipment and prolong the lifespan of the charger.

- Clean the charging clamps after each use. Wipe off any battery fluid that may have come in contact with the clamps to prevent corrosion. Battery fluid may be neutralized with a solution of water and baking soda.
- Once a year, apply some grease to the exposed wires on the ends of the cables where the clamp is connected to prevent corrosion.
- Keep the outer casing clean by wiping with a soft cloth. Ensure that the battery charger does not come into contact with liquid.
- Do not attempt to open the equipment housing. There are no user-serviceable parts inside. Contact Jefferson Tools for information concerning use, applications, parts and servicing.

TROUBLESHOOTING

Issue	Solution
- No ammeter reading and no Indicator lights PRIOR to charging	<ul style="list-style-type: none"> • Make sure charger is plugged into a live AC outlet. • After unplugging unit, check connections at battery. • Make sure the battery terminals are clean and the clamps are making good contact with the battery terminal and the other point of connection. • Check to see that battery is compatible and capable of being charged. It may be damaged, sulfated, or have an open circuit. • Make sure you have selected the proper charge voltage for the battery being charged. • Battery may need preactivation (refer to the battery / vehicle manufacturer's instructions). • Verify that the vehicle's battery cables are in good condition and properly connected to the battery, especially the grounding terminal. • The battery may already be fully charged.
- Low ammeter reading and no Indicator lights DURING charging	<ul style="list-style-type: none"> • If meter reading is low have the battery professionally tested. • If the battery is defective, replace the battery. • If battery is OK after testing contact Jefferson Dealer for advice.
- No ammeter reading - Reverse polarity indicator is on	<ul style="list-style-type: none"> • The charger's output cables are reversed at the battery and other point of connection. • Unplug charger, correct the battery terminal connections, then plug the charger in and resume charging.
- No ammeter reading, BUT charge complete indicator	<ul style="list-style-type: none"> • Battery is fully charged. • The charger may be disconnected at any time.

ENVIRONMENTAL PROTECTION



**PLEASE
RECYCLE**

Recycle any packaging and unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

When the product becomes completely unserviceable, reaches the end of its working life and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

WEEE Waste Electrical and Electronic Equipment Statement



Information on Disposal for Users of Waste Electrical & Electronic Equipment

This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

For private households:

Dispose of this product at the end of its working life and in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). Contact your local solid waste authority for recycling information for this equipment.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

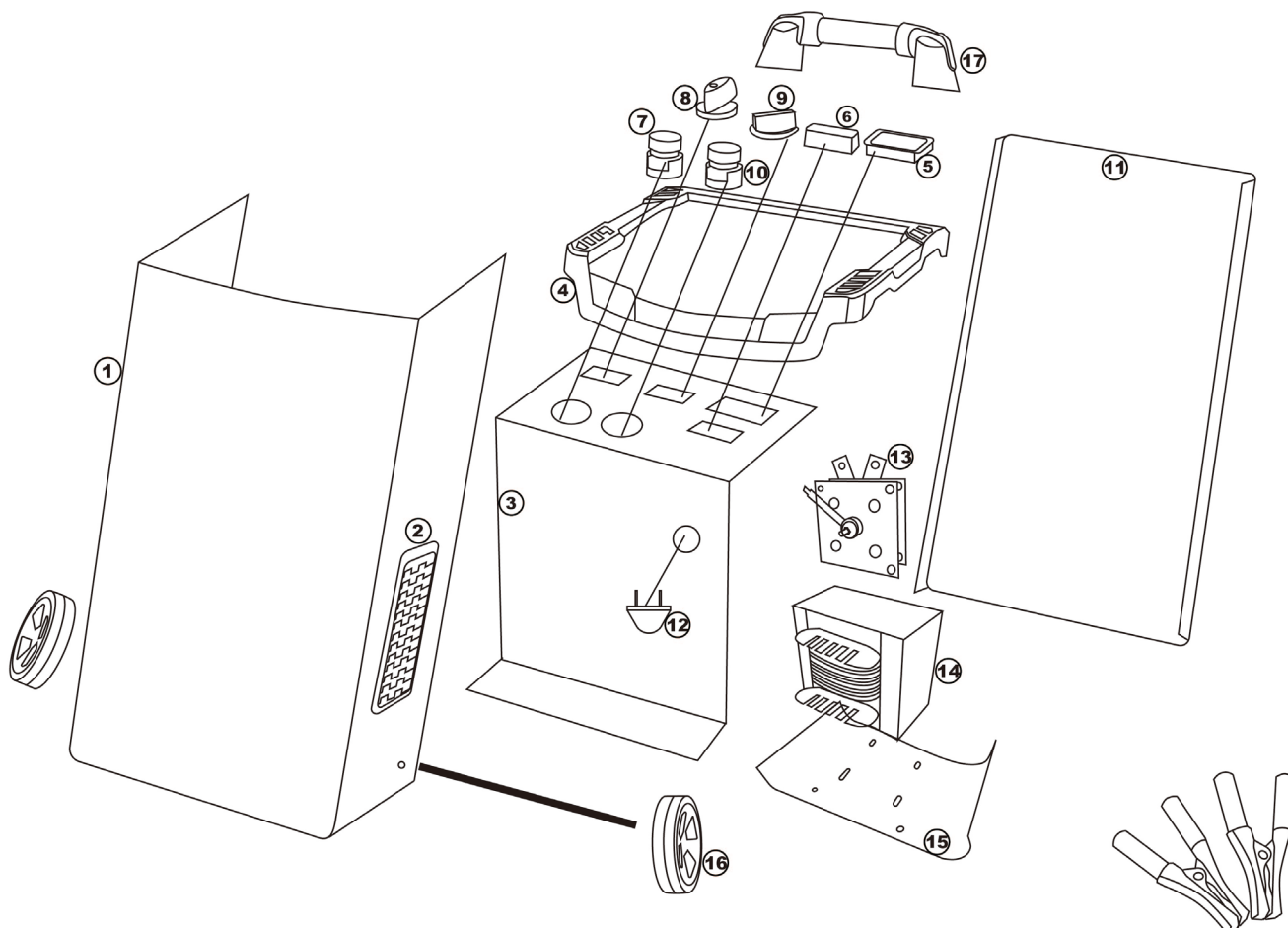
This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

RoHS (2014/35/EU - Restriction of Hazardous Substances)



Based on randomly-sampled examination of the evaluated product, the results of Lead, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) in tested samples comply with the limits as set by RoHS Directive 2011/65/EU ANNEX II; recasting 2002/95/EC.

PARTS DIAGRAM



PARTS LIST - MAIN ASSEMBLY

#	Description	#	Description
1	Front Panel (Metal)	11	Rear Panel (Metal)
2	Air Vents / Grilles	12	13A UK Plug
3	Control Panel Shell	13	Rectifier Bridge
4	Front Housing (Plastic)	14	Movement
5	Output Current Meter (Ammeter)	15	Underframe
6	Over Current Protection Fuse	16	Wheel
7	24V Terminal Connector	17	Handle
8	Rotary Dial: Power / Charge & Start Mode / Charge Rate		
9	Rotary Dial: Timer		
10	12V Terminal Connector		

EC Declaration of Conformity

We, Jefferson Professional Tools & Equipment, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

Directive:	Description:
2014/30/EU (as amended)	Electromagnetic Compatibility
2014/35/EU (as amended)	Low Voltage Directive
2014/35/EU (as amended)	RoHS (Restriction of Hazardous Substances)

Equipment Category:

Battery Starter Charger

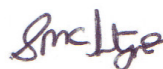
Product Name/Model:

JEFSTACHG430

430A Battery Starter Charger

Signed by:

Stephen McIntyre



Position in the company:

Operations Director

Date:

11 September 2019

**Name and address of manufacturer
or authorised representative:**

Jefferson Tools, Herons Way, Chester Business Park, Chester, United Kingdom, CH4 9QR
Telephone: +44 (0)1244 646 048
Fax: +44 (0)1244 241 191
Email: enquiries@jeffersonstools.com

LIMITED WARRANTY STATEMENT

Jefferson Professional Tools & Equipment, or hereafter "Jefferson" warrants its customers that its products will be free of defects in workmanship or material. Jefferson shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Jefferson to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service or repair.

Warranty Period

Jefferson will assume both the parts and labour expense of correcting defects during the stated warranty periods below.

All warranty periods start from the date of purchase from an authorised Jefferson dealer. If proof of purchase is unavailable from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

- JEFSTACHG430 - 230A Battery Starter Charger

90 Days

- All replacement parts purchased **outside** of the warranty period

Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address:

www.jeffersonstools.com/warranty and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Jefferson confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Jefferson dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Jefferson will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Jefferson warranty, the customer will be liable for any labour and return transportation costs incurred.

These costs will be agreed with the customer before the machine is returned.

** Jefferson reserve the right to void any warranty for damages identified as being caused through misuse*

Warranty Limitations

Jefferson will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Jefferson's liability under this warranty will not exceed the cost of correcting the defect of the Jefferson products.

Jefferson will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc.) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Jefferson with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved.

Jefferson is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.

Claiming Warranty Coverage

The end user must contact Jefferson Professional Tools & Equipment (Tel: +44 (0) 1244 646 048) or their nearest authorised Jefferson dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit our website www.jeffersontools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Jefferson dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Jefferson repair centre. On receipt of this form Jefferson will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection, **together with a copy of the original proof of purchase**. Please note that Jefferson cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

Please note: Jefferson will be unable to collect or process any warranty requests without a copy of the original proof of purchase.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Jefferson engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days).

Note: If the repair quotation is not accepted Jefferson Professional Tools & Equipment will invoice **1 hour labour time at £30 per hour plus return carriage costs (plus VAT)**.

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at **£30 per hour plus carriage costs** will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Jefferson Repair centre (subject to part availability). Where parts are not immediately available Jefferson will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Jefferson warranty cover please call **+44 (0) 1244 646 048** or send your enquiry via email to **warranty@jeffersontools.com**

Disclaimer:

The information in this document is to the best of our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use are beyond their control, Jefferson Tools® disclaim any liability for loss or damage suffered from the use of this data or suggestions. Furthermore, no liability is accepted if use of any product in accordance with this data or suggestions infringes any patent. Jefferson Tools® reserve the right to change product specifications and warranty statements without further notification. All images are for illustration purposes only.



IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of fire, electric shock or personal injury.



Jefferson Tools,
Herons Way,
Chester Business Park,
Chester,
United Kingdom,
CH4 9QR

Tel. +44 (0)1244 646 048
Email: sales@jeffersonstools.com