

**DRAPER**<sup>®</sup>

**D20**  
MULTI-TOOL BATTERY SYSTEM

GB

20V LI-ION

# FAST BATTERY CHARGER

55913



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

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

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

# 1. TITLE PAGE

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## 1.1 INTRODUCTION:

**USER MANUAL FOR: 20V Li-ion Fast Battery Charger**

**Stock No:55913**

**Part No:D20BCF**

## 1.2 REVISIONS:

**Date first published October 2018.**

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As our user manuals are continually updated, users should make sure that they use the very latest version.

**Downloads are available from:** <http://drapertools.com/manuals>

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## 1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

**WARNING!** – Information that draws attention to the risk of injury or death.

**CAUTION!** – Information that draws attention to the risk of damage to the product or surroundings.

## 1.4 COPYRIGHT © NOTICE:

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## 3. WARRANTY

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### 3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

**Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.**

**Telephone Sales Desk: (023) 8049 4333 or:**

**Product Helpline (023) 8049 4344.**

A 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 covering labour is 12 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. The warranty is extended to 24 months from the date of purchase for parts only. This warranty does not apply to any consumable parts, any type of battery 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 warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

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

**Draper Tools Limited.**

## 4. INTRODUCTION

### 4.1 SCOPE

As part of our core range, this product is suitable for enthusiasts and tradespeople alike. Any application other than that it was intended for, is considered misuse.

### 4.2 SPECIFICATION

Stock No.....	55913
Part No.....	D20BCF
Battery type.....	Lithium
Rated Voltage.....	230V~
Rated Frequency.....	50Hz
Rated output.....	100W
Rated D.C. output voltage.....	20V
Rated D.C. output current.....	4.0A
Protective device rated current.....	8A
Construction.....	Class II
Weight (machine only).....	1.87kg

### 4.3 HANDLING & STORAGE

- Care must be taken when handling this product.
  - Dropping this charger could have an effect on its accuracy and could also result in personal injury. This product is not a toy and must be respected.
- Environmental conditions can have a detrimental effect on this product if neglected.
  - Exposure to damp air can gradually corrode components.
  - If the product is unprotected from dust and debris, components will become clogged.
  - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.

## 5. HEALTH AND SAFETY INFORMATION

### 5.1 RESIDUAL RISK

**Important:** Although the safety instructions and operating manuals for our tools contain extensive instructions of safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

### 5.2 SAFETY INSTRUCTIONS FOR MAINS POWERED BATTERY PACKS AND CHARGERS


#### Chargers

- The charger is for indoor use only.
- Prior to plugging the charger in to the supply, check that the plug and the cable are in good repair. If either are damaged, have the defective item replaced immediately by a suitably qualified person. If the casing of the battery charger is damaged, it is good policy to have the charger checked over by a suitably qualified person.
- Only use a correctly rated mains outlet to provide power, do not plug into site generators, attach to engine generators or D.C. sources. Do not use a mains socket outlet that is not switched.
- Use the correct Draper charger in conjunction with its corresponding battery pack. Do not charge any other batteries with Draper chargers. Any other application is considered misuse. Do not attempt to charge battery packs that are too hot (over 30°C) or too cold (under 5°C), if these conditions apply set the battery pack aside to "normalise" before proceeding with the charging operation.
- Set up the charger and cable in a safe place where it won't be knocked, tripped over, stepped on, etc. and where it is well ventilated. Make sure the ventilation slots in the charger case are not obstructed, plug the charger into the socket outlet. Inspect the battery pack for damage, if it is undamaged, plug it into the charger, ensuring the correct orientation. (Most chargers and batteries have 'keys' etc, to make sure the battery pack is not inserted incorrectly, if you are having to 'force' the battery pack into the charger, the chances are you have it the wrong way round, check and try again). Switch the charger on and check that the correct indicators illuminate, allow the battery pack to charge (see the Preparing the Battery Charger instructions for your charger). Once charging is complete, switch the charger off, remove the battery pack and store in a dry place, repeat the procedure if you have more than one battery pack to charge.

**Caution:** When the battery charger has been continuously used, the battery charger will be hot. Once the charging has been completed, give 15 minutes rest until the next charge.

- If, when the charger was switched on, the correct indications did not occur, leave for two or three minutes to allow the charger to stabilise, if the correct indications occur, allow the charging cycle to proceed as normal. If no indication appears at all switch off, remove the battery pack, unplug the charger, check that the charger contacts and the battery contacts are clean and repeat the process, if there is still no indication, switch off, remove the battery pack, unplug the charger and check the fuse. If the fuse is blown, replace and repeat the process, if the fuse blows again, or if the fuse was intact, attempt no further action. Refer the charger to a suitably qualified person for repair.

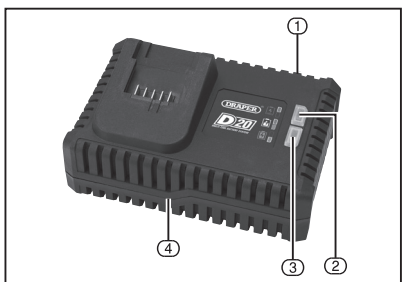
### 5.5 CONNECTION TO THE POWER SUPPLY (CHARGER)

- Make sure the power supply information on the charger's rating plate is compatible with the power supply you intend to connect it to.
- The charger used by this product is designed for connection to a domestic power supply rated at 230V AC.
- If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow the instructions supplied with the extension lead.
- If using an extension lead, follow the instructions that came with your lead regarding maximum load while the cable is wound. In doubt, ensure that the entire cable is unwound. Using a coiled extension lead will generate heat, which could melt the lead and cause a fire.
- †Double insulated : The charger used by this product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

## 6. TECHNICAL DESCRIPTION

### 6.1 IDENTIFICATION

- ① Power supply.
- ② Red LED light.
- ③ Green LED light.
- ④ Battery charger.



## 7. UNPACKING AND CHECKING

### 7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the guarantee period in case the machine needs to be returned for repair.

#### Warning!

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

## 8. PREPARING THE BATTERY CHARGER

### 8.1 BATTERY PACK CHARGING – FIGS. 1 – 2

**Warning!** Check the condition of the charger and battery prior to each charge. If there is any sign of damage then do not commence charging, seek advice from Draper Tools.

The battery pack is supplied un-charged and must be charged before initial use.

To charge the battery pack (A), it must first be removed from the tool.

To release the battery pack:

- Press the battery release button (B) and gently slide the battery pack off (Fig.1).
- Plug the battery charger (1) unit into a 230V/AC 13amp three pin supply socket.
- The red LED (2) will illuminate to show the charger has power.
- Slide the battery into the charger (the battery is shaped to fit into the charger one way only).
- After a few seconds delay, the red LED (2) will flash to show that charging has begun, then illuminate solid red.
- Whilst the battery is charging, the green LED (3) will flash, (the red LED will go from flashing to constant red).
- When the battery is fully charged when the green LED stops flashing and remains a constant green. The red LED will extinguish.

**Caution:** Do not pull the plug out of the power supply by pulling on the cord. Make sure to grasp the plug when removing from power supply to avoid damaging the cord.

To remove the battery from the battery charger:

- Supporting the battery charger with hand, pull out the battery from the battery charger.

**Caution:** If the battery charger has been in continuous use it will be hot. Once the charging has been completed, leave the charger 15 minutes to cool until next use.

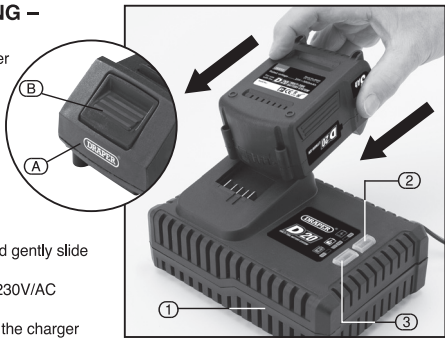


FIG.1

## 8. PREPARING THE BATTERY CHARGER

### 8.3 BATTERY PACK EFFICIENCY AND CHARGING ADVICE

- Recharge the battery packs before they become completely exhausted.
- When you feel that the power of the tool becomes weaker, stop using the tool and recharge the battery pack. If you continue to use the tool and exhaust the electric current, the battery pack may become damaged.
- Avoid recharging at high temperatures. A rechargeable battery pack will be hot immediately after use. If such a battery pack is recharged immediately after use, its internal chemical substance will deteriorate and the battery life will be shortened. Leave the battery pack and recharge it after it has cooled for a while.
- The battery pack should only be used and/or charged when battery pack temperature is between 5°C and 30°C.
- The battery pack needs to be warmed-up or cooled down in order to prevent damage to the batteries internal components.

**Note:** Failure to warm up or cool down a battery pack could result in serious damage to the battery, charger and user.

**Warning:** If any of the following occurs, unplug the charger from the power supply socket outlet and replace the battery pack

- None of the indicators illuminate.

**Disconnect battery charger from the power supply.**

**Caution:** Do not pull the plug out of the power supply by pulling on the cord. Make sure to grasp the plug when removing from power supply to avoid damaging the cord.

**Remove the battery from the battery charger.** Supporting the battery charger with hand, pull out the battery from the battery charger

**Caution:** When the battery charger has been continuously used, the battery charger will be hot. Once the charging has been completed, give 15 minutes rest until the next charge.

If the battery is charged when it is warm due to battery use or exposure to sunlight, the battery will not be recharged. In such a case, let the battery cool before charge.

If the red indicator flickers rapidly at 0.2 - second intervals, check for and take out any foreign objects in the charger's battery slot. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Allow battery/charger to normalise and try again. If a fault remains after trying this then contact Draper Tools.

**How to make the batteries perform longer.**

Recharge the batteries before they become completely exhausted.

When you feel that the power of the tool becomes weaker, stop using the tool and recharge the battery. If you continue to use the tool and exhaust the electric current, the battery may become damaged.

Avoid recharging at high temperatures. A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.

## 9. MAINTENANCE

**Note:** Always unplug the battery charger from the mains before cleaning.

- Clean with a dry cloth.

## 10. DISPOSAL

### 10.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE\* as unsorted municipal waste.



\* Waste Electrical & Electronic Equipment.

## 11. EXPLANATION OF SYMBOLS

### 11.1 EXPLANATION OF SYMBOLS



Read the instruction manual.



**Warning!**



Class II construction (Double insulated).



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



Do not incinerate or throw onto fire.



For indoor use only. Do not expose to rain.



Fuse.



Polarity indication.



Rated voltage.

## CONTACTS

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General Enquiries: (023) 8026 6355

**Service/Warranty Repair Agent:**

For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

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