



700A Capacitor **POWER PACK**

82957



IMPORTANT: Please read these instructions carefully to ensure the safe and effective use of this product and save these instructions for future reference. This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

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, 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 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

1.1 INTRODUCTION:

USER MANUAL FOR:

700A CAPACITOR POWER PACK

Stock no. 82957

Part no. CJS800

1.2 REVISIONS:

Date first published July 2017

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

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

DRAPER TOOLS LIMITED

HURSLEY ROAD

CHANDLER'S FORD

EASTLEIGH

HAMPSHIRE

SO53 1YF

UK

WEBSITE: drapertools.com

PRODUCT HELPLINE: +44 (0) 23 8049 4344

GENERAL FAX: +44 (0) 23 8026 0784

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:

Copyright © Draper Tools Limited.

Permission is granted to reproduce this publication for personal & educational use only.

Commercial copying, redistribution, hiring or lending is prohibited.

No part of this publication may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases this copyright notice must remain intact.

2.1 CONTENTS

Page content	Page
1 TITLE PAGE	
1.1 INTRODUCTION	2
1.2 REVISION HISTORY	2
1.3 UNDERSTANDING THIS MANUAL	2
1.4 COPYRIGHT NOTICE	2
2 CONTENTS	
2.1 CONTENTS	3
3 GUARANTEE	
3.1 GUARANTEE	4
4 INTRODUCTION	
4.1 SCOPE	5
4.2 SPECIFICATION	5
4.3 HANDLING & STORAGE	5
5 HEALTH & SAFETY INFORMATION	
5.1 GENERAL SAFETY INSTRUCTIONS	6
5.2 RECHARGEABLE BATTERIES	7
6 IDENTIFICATION	
6.1 IDENTIFICATION	9
7 UNPACKING & CHECKING	
7.1 PACKAGING	10
7.2 WHAT'S IN THE BOX	10
8 OPERATING INSTRUCTIONS	
8.1 LCD DISPLAY	11
8.2 BUTTON INSTRUCTIONS	11
8.3 CHARGING AND JUMP STARTING	12
8.4 CAR BATTERY DETECTION	13
10 MAINTENANCE	
10.1 MAINTENANCE	14
11 EXPLANATION OF SYMBOLS	
11.1 EXPLANATION OF SYMBOLS	15
12 DISPOSAL	
12.1 DISPOSAL	16
DECLARATION OF CONFORMITY	ENCLOSED

3. GUARANTEE

3.1 GUARANTEE

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 with the tool.

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 guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. This guarantee does not apply to 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 guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

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

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

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This product is designed for the starting of petrol and diesel engines with flat batteries.

4.2 SPECIFICATION

Stock no.	82957
Part no.	CJS800
Recommended maximum capacity:	
Petrol	6.0L
Diesel	3.0L
Input	
Voltage	5V@2A and 12V@10A
Output:	
Voltage	12V
Peak Amperage.....	700A
Worklight	3W
Back up battery:	
Type	Li-ion
Capacity	6000mAh
Dimensions.....	220x120x50mm
Weight (machine only).....	1.294kg

4.3 HANDLING & STORAGE

Care must still be taken when handling and lifting. Dropping this machine will have an effect on its operation and may also result in personal injury. This machine is not a toy and must be respected.

The environment will have a negative result on its operation if you are not careful. If the machine is unprotected from dust and debris; components will become clogged:
And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS

WARNING: Please read the following instructions carefully, failure to do so could lead to serious personal injury.

IMPORTANT: Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

WARNING - RISK OF EXPLOSIVE GASES

WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS, BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE, IF YOU HAVE ANY DOUBT, THAT EACH TIME BEFORE USING THE POWER PACK, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS.

- To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery. Review warning marks on all these products and on the engine.
- When working near a lead-acid battery, someone should be within range of your voice, close enough to come to your aid.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- Wear complete eye, hand and clothing protection. Avoid touching eyes when working with batteries.
- If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eyes, immediately flood eye with cool, clean running water for at least 15 minutes and get medical attention immediately.
- **NEVER** smoke or allow a spark or flame in vicinity of battery or engine.
- Be extra cautious to reduce risk of dropping a metal tool onto a battery. It could spark or short circuit the battery or, any other electrical part possibly causing an explosion.
- When working with a lead-acid battery, remove personal metallic items such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short-circuit current high enough to weld a ring, or the like to metal, which may cause severe burns.
- Use the battery charger for charging "lead-acid batteries only". Do not use for charging dry-cell or Ni-Cad batteries that are commonly used with home appliances. For example, radios, torches etc. These batteries may explode and cause injury to persons and damage to property.
- **NEVER** charge or boost a frozen battery.
- **NEVER** allow clamps to touch one another or to contact the same piece of metal to prevent arcing.
- Ensure the power pack is switched off prior to connecting/disconnecting of the vehicle battery.
- Do not use the charger in damp or wet conditions.
- Keep out of reach of children.
- Do not submerge in water.
- Do not operate near flammables such as petrol, paraffin, or thinners etc.
If the charger receives a sharp blow or is otherwise damaged in any way, do not disassemble. Have it checked by a qualified service person. Return to source.
- The battery must be removed from the appliance before it is scrapped.
- The appliance must be disconnected from the supply mains when removing the battery.
- The battery must be disposed of safely.
- This appliance is for use on 12V circuits only.
- Do not use in high temperatures.
- Before connecting the power pack, ensure the main switch is in the 'off' position.
- If incorrect polarity is indicated, disconnect immediately and rectify.
- Prior to initial use charge for 24 hours.
- Do not use the power pack while charging.

5. HEALTH & SAFETY INFORMATION

5.2 RECHARGEABLE BATTERIES:

- The battery must be removed from the appliance before it is scrapped.
- The appliance must be disconnected from the supply mains when removing the battery.
- The battery must be disposed of safely
- Charge the battery using the specified charger under the charging conditions specified. Charging the battery under any other conditions may cause the battery to overheat, emit hydrogen gas, leak, ignite or burst.
- Do not place the battery near a device that may cause sparks (such as a switch or a fuse). The battery may generate flammable gas when charged, so remember to keep the battery away from fire to prevent sparks from igniting or causing explosion.
- Do not place or store the battery in a vehicle in hot weather, under direct sunlight, or near a source of heat. Use and storage of the battery in these conditions may cause battery leakage, fire or bursting.
- Damage and deterioration of battery characteristics may occur if the battery is dropped.
- Do not charge the battery in the inverted position.
- Do not carry the battery by hanging it from the terminal or the cable, as it may cause damage to the battery.
- Turn off the switch of the circuit when connecting the battery to a charger or load.
- Batteries tend to lose a part of their capacity due to self-discharge during shipment and storage, recharge the batteries before you use them and after purchase or long-term storage in order to restore their full capacity.
- Do not continue discharging to the point where the voltage drops below the recommended discharge cut-off voltage.
If a storage battery that was discharged below the recommended discharge cut-off voltage is recharged, the storage battery may generate heat which could deform it or cause condensation to form moisture from inside the battery.
Discharging below the recommended voltage may also accelerate the deterioration of the battery's performance characteristics.
- Avoid overdischarge, and charge the battery immediately after discharge.
- Unsatisfactory storage conditions may cause deterioration in battery performance, shorten service life and could cause rust to form on the terminals.
- Do not allow metallic objects to touch or bridge the terminals especially jewellery. Failure to observe the precautions may cause the battery to overheat, emit hydrogen gas, leak, ignite or burst.
- Do not throw the battery into fire or heat the battery. The battery may burst or generate a toxic gas if placed in contact with fire.
- Do not attempt to disassemble, remodel or destroy the battery, as it may cause the battery leakage, fire or bursting, and could also create sulphuric acid spills from the battery resulting in possible burns to personnel and damage to the immediate environment.
- Do not continue to charge the battery beyond the time specified in the instructions. If the battery is not fully charged even after being charged for a longer time than specified, discontinue charging and remove the battery from the charger. Charging for a longer time than specified may cause the battery to leak, ignite, or burst.
- Do not discharge the batteries beyond the maximum values indicated on the battery. If the battery is discharged beyond the maximum values, it may leak, ignite or burst.
- Keep the batteries beyond the reach of children.
- Wear gloves when handling batteries.

5. HEALTH & SAFETY INFORMATION

- Do not apply organic solvents such as paint thinner, petrol or liquid detergents to the battery. If these are brought into contact with the battery case, it may crack, causing leakage.
- The car's battery contains electrolyte (diluted sulphuric acid) a very toxic substance. If the battery leaks and the liquid inside spills on the skin or clothing, immediately wash it off with plenty of clean water. If the liquid splashes into eyes, immediately flush the eyes with plenty of clean water and consult a doctor. Sulphuric acid will burn skin and in the eyes may cause loss of eyesight.
- Store the battery in a stable position so as to keep the terminals of the battery away from any metallic or other conductive material (including items that may fall or drop onto the battery). Protect the battery from rain. If the terminals of the battery come into contact with water, they may corrode.

As a general rule, keep the battery in an upright position.

When storing the battery, disconnect it from the charger and keep it in a place where the temperature is low. Do not store in direct sunlight or temperatures exceeding 60°C.

If the battery is stored for a year or longer without being charged, its service life may be shortened. Store the battery after fully charging it, otherwise its service life may be shortened.

- Use/recharge the battery regularly. The battery gradually deteriorates during storage and consequently its decreased capacity may be irreversible even after recharging.

Used batteries are recyclable. When returning used batteries, insulate their terminals with adhesive tape if not the residual electricity in used batteries may cause fire or explosion. This battery is fully recyclable and should be accepted at any location that accepts common automotive batteries. Contact your national/local authority or municipal waste centre for details.

BATTERY CHARGERS:

- Before charging, read the instructions.
- For indoor use. Do not expose to rain.
- Disconnect the supply before making or breaking the connections to the battery.

WARNING: Explosive gases. Prevent flames and sparks. Provide adequate ventilation before charging.

- Do not charge non-rechargeable batteries.
- During charging the battery must be placed in a well ventilated area.

6. IDENTIFICATION



- ① On/Off switch.
- ② LED torch button.
- ③ Backup battery boost button.
- ④ LCD display screen
- ⑤ 12V DC output port.
- ⑥ 5V 2A input port.
- ⑦ LED torch.
- ⑧ Insulated cables.
- ⑨ Heavy duty toothed copper clamps (+/-).

7. UNPACKING AND CHECKING

7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage caused during shipping. Lay the contents out and check them. If any part is damaged or missing, do not attempt to use the tool and contact the Draper Helpline immediately (see back page for details).

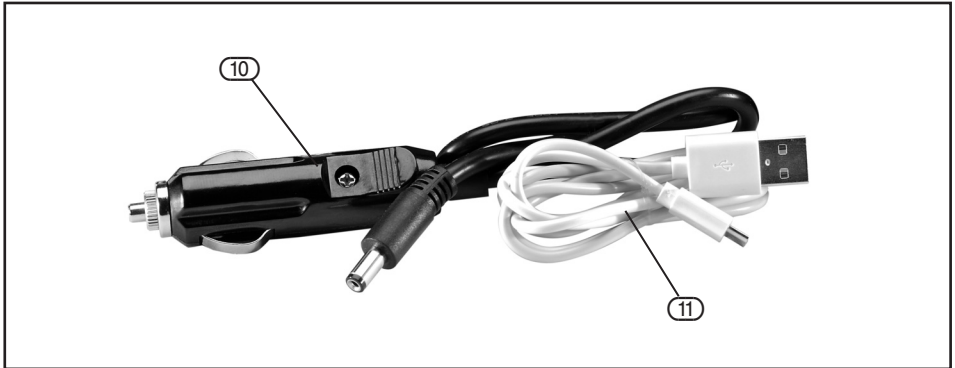
Retain the packaging material at least during the guarantee period: in case the machine needs to be returned for repair.

Warning! Some of the packaging materials used may be harmful to children, keep them out of reach from children.

Dispose of any packaging correctly and according to local regulations.

7.2 WHAT'S IN THE BOX?

As well as the product; there are several parts not fitted or attached to it.



⑩ 12V DC cable and connector.

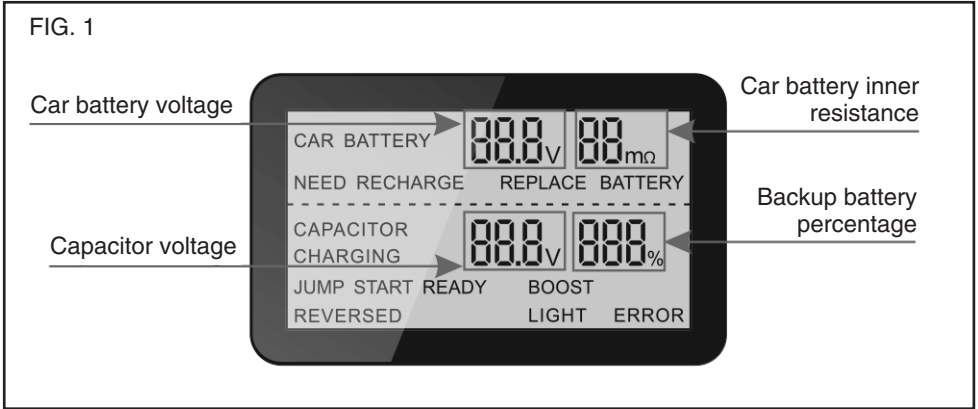
⑪ 5V 2A USB cable and connector.

8. OPERATING INSTRUCTIONS

8.1 LCD DISPLAY (FIG.1)

NOTE: Battery must be charged for 24 hours prior to first use.

The Power pack was precharged during production.



8.2 BUTTON INSTRUCTIONS (FIG.2)

Switch button: Press switch button ①, the LCD screen will illuminate.

Backup battery boost: Press and hold backup battery boost button ③ over 2 seconds to charge the ultra-capacitor. When LCD screen shows “JUMP START READY”, backup battery can automatically output for power pack for approx.10 seconds.

LED torch button: Touch the LED button ⑦ to activate the LED torch. There are 4 x modes of LED that will illuminate; normal, flash, SOS and off, if you press slightly.

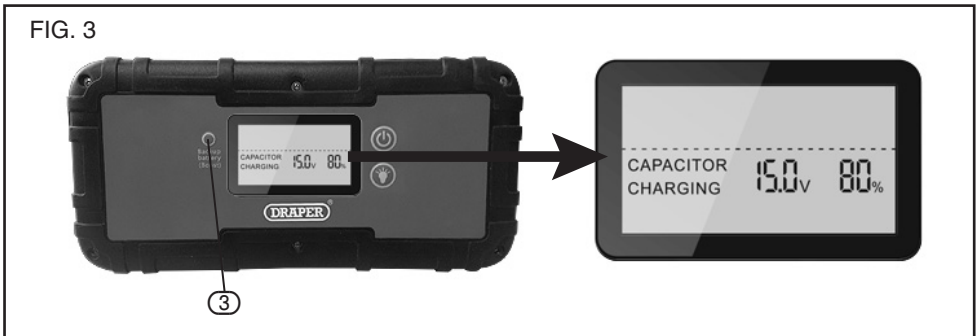


8. OPERATING INSTRUCTIONS

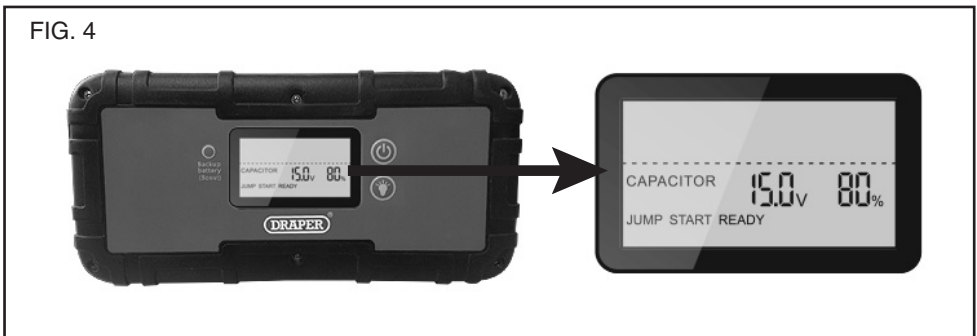
8.3 CHARGING AND JUMP STARTING (FIGS.3 & 4)

To charge the machines internal battery you can use the supplied USB cable to connect to a 2.0A USB socket and charging will take around 4 hours or alternatively you can use the 12V DC charging lead to connect to any 12V DC 10A socket and charging will complete in around 50 minutes.

- 1) Connect the jumper cables to the car battery terminals, detect the voltage and internal resistance of the battery.
- 2) Once the jumper cable have been connected to the battery, the LCD display will show “JUMP START READY”, the power pack is then ready to jump start the car. “CHARGING” will be shown on the LCD display.
- 3) Press the Backup battery boost button (3) to charge as shown in Fig.3.



- 4) The internal backup battery will charge the power pack, after approximately 2 minutes, the power pack voltage will show 15V (Fig.4) and will be ready to jump start the car.



9. OPERATING INSTRUCTIONS

8.4 CAR BATTERY DETECTION (Fig.5)

Connect the "positive" clamp to the "positive" terminal and the "negative" clamp to the "negative" terminal to check the voltage and inner resistance as to whether the car battery requires charging or replacing.

FIG. 5



10. MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The appliance must be correctly ventilated during tool operation.

All servicing and maintenance not listed in this manual must be carried out by an approved Draper service agent (see back cover for contact details).

- **12V == CHARGER LEAD FUSE REPLACEMENT (FIG.6):**

Carefully remove the knurled metal section (12.1) which is spring loaded. Remove the fuse and replace with one of a matching rating (5A) and type (glass) - Draper Stock No.41307.

- **NOTE:** Do not lose the spring located behind the fuse.



Stock No.	Description
89424	12V DC charge lead

For more details please refer to your local Draper Stockist.

11. EXPLANATION OF SYMBOLS

11.1 EXPLANATION OF SYMBOLS



Class II construction
(Double insulated).



Automatic overload protection.



Isolating transformer.



Conforms to all relevant
safety standards.



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

* Waste Electrical & Electronic Equipment.

12. DISPOSAL

12.1 DISPOSAL

- The sealed lead-acid battery in this appliance has a normal working life of many years. When the battery expires, it should be removed from the appliance for recycling.
- Please contact your local solid waste authority for recycling information.

- **CAUTION:**

This appliance has a sealed lead acid battery that should be kept at full charge. Recharge when first received, immediately after each use, and every three months if not used. Immediately charge when the unit has been incorrectly overdischarged. Do not operate the unit while charging. Failure to do this may cause the battery life to be reduced greatly.

- 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 abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

NOTES

CONTACT US

Draper Tools Limited, Hursley Road,
Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. U.K.

Helpline: +44 (0) 23 8049 4344

Sales Desk: +44 (0) 23 8049 4333

Internet: www.drapertools.com

E-mail: sales@drapertools.com

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