KINCROMEC®
PROFESSIONAL QUALITY TOOLS

2 IN 1 BATTERYLESS
JUMP STARTER / CHARGER

KP8001, KP8002
ED1/August 17

KP8001 - 800A 12V DC
KP8002 - 1600A 12V DC

KINCROMEC
PROFESSIONAL QUALITY TOOLS

BATTERYLESS JUMP STARTER

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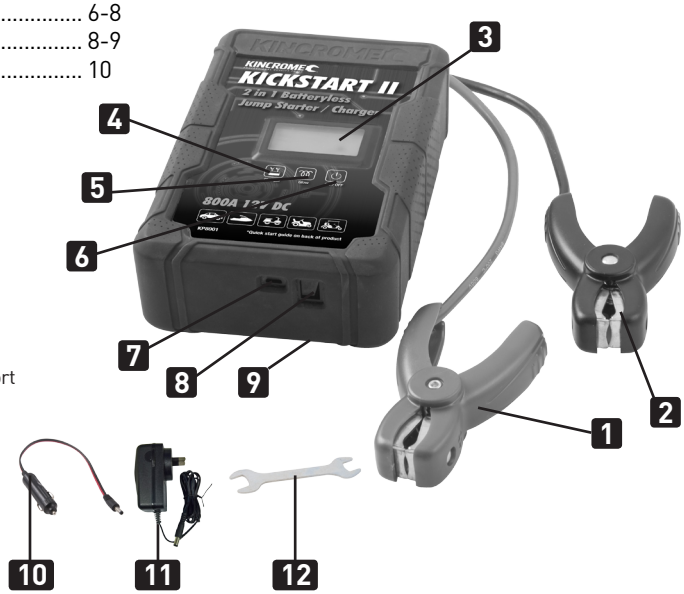
Know Your Product



1. Positive Battery Clamp **RED**
2. Negative Battery Clamp **BLACK**
3. LCD Control Panel Display
4. Battery Charger Button
5. Glow Plug Button
6. ON / OFF Button
7. Micro USB 5V DC 2A Input Port
8. Power Adaptor / 12V DC Input Port
9. Quick Start Information*
   *On rear of product
10. 12V DC Charger Adaptor
11. Power Adaptor
12. Battery Terminal Wrench

Specifications

Part No	KP8001	KP8002
Cranking Current	12V DC - 400A	12V DC - 800A
Peak Current	12V DC - 800A	12V DC - 1600A
Battery Charger Mode	12V DC 5A	12V DC 5A
240V AC Power Adaptor Output	15V 2A	15V 2A
Recharge via 12V DC Battery	Approx. 2 min	Approx. 2.5 min
Recharge via 12V Socket	Approx. 2.5 min	Approx. 3 min
Recharge via DC 5V 2A USB	Approx. 30 min	Approx. 50 min
Recharge via Power Adaptor (11)	Approx. 7 min	Approx. 12 min
Max Consecutive Cranking Sessions	8	5
Min Interval Period Between Cranking Sessions	15 min	20 min
Ambient Operating Temperature Range	-40˚C ~ 65˚C (-40˚F ~ 149˚F)	-40˚C ~ 65˚C (-40˚F ~ 149˚F)
Capacitor Lifetime	> 10,000 Starts	> 10,000 Starts
Dimensions	210 x 129 x 54mm	235 x 192 x 99mm
Weight	1.19kg	2.42kg

General Safety Warnings

Save all warnings and instructions for future reference.
WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Electrical Safety

1. Charger plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs that are earthed (grounded). Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose the Batteryless Jump Starter to rain or wet conditions. Water entering the Batteryless Jump Starter will increase the risk of electric shock.
4. Do not abuse the cords. Never use the cord for carrying, pulling or unplugging the charger. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. If operating a charger in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.
6. Do not operate powered products in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Powered products create sparks which may ignite the dust or fumes.
7. Keep children and bystanders away while operating any powered products. Distractions can lead to injury of yourself or the bystanders.
8. When the Batteryless Jump Starter is not in use, keep it away from other metal object, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery clamps together may cause burns or a fire.
9. This appliance is not intended for use by persons (including children) with reduced physical sensors or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety.
10. Children should be supervised to ensure they do not play with the appliance.
11. Always take care when using this appliance.

Additional Safety Instructions for Batteries and Chargers

1. Do not modify or take the Batteryless Jump Starter apart, re-assemble, repair battery or charger to avoid breaking or damaging of the components.
2. Do not place or allow the Batteryless Jump Starter to come into contact with water, fire or high-temperature environments.
3. Do not puncture, damage or deform the Batteryless Jump Starter.
4. Do not allow the + /- terminals of the Batteryless Jump Starter to come in contact with each other. This could cause a short circuit of the Batteryless Jump Starter.
5. Do not store in locations where the temperature may exceed 65°C.
6. Charge only at ambient temperatures between -40°C and 65°C.
7. Only charge the Batteryless Jump Starter using the charging adaptors provided with the product.
8. Do not attempt to charge damaged batteries.
9. Under abusive conditions, liquid may be ejected from the Batteryless Jump Starter; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, flush with water and seek medical attention. Liquid ejected from the Batteryless Jump Starter may cause irritation or burns.
10. Only use external power supply designed to be used with the Batteryless Jump Starter.
11. Dispose of batteries in accordance with your local council regulations.

General Safety Warnings (Cont.)

Chargers

1. Use your Power Adaptor (11) only to charge the battery in the Batteryless Jump Starter with which it was supplied. Using a power adaptor not designed for the battery it was intended for could cause battery failure, potentially leading to personal injury and damage.
2. Have defective cords replaced immediately.
3. Do not expose the charger to water.
4. Do not open the charger.

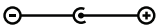
WARNING! Never attach the unit to a battery that is connected to any other tester or charging unit. Damage may result.

Tester Use and Care Instructions

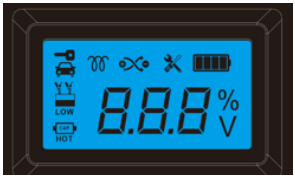
1. This Batteryless Jump Starter was designed for 2 specific functions. A Vehicle jump starter & 12V battery charger.
2. DO NOT Use the Batteryless Jump Starter in a way for which it was not designed.

Labels on Tool

The following symbols are shown on the tool:

	Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.		
	The Power Adaptor (11) is intended for indoor use only.		Dispose of battery as per local government requirements.
	Read the instruction manual before use.		Risk of explosion
	Warning		Energy efficiency rating
	EMC (Electromagnetic Compliance) mark.		Eye Protection
	Safety Gloves		Isolation Transformer Symbol
	Switch Mode Symbol		Power Adaptor Polarity Symbol

Description of Control Panel Display



	Description	LED Screen Colour
	Fig 1. Vehicle battery voltage.	BLUE
	Fig 2. Capacitor state of charge.	BLUE
	Fig 3. Ignition symbol, it's ready to start.	BLUE
	Fig 4. GLOW PLUG mode is activated.	BLUE
	Fig 5. Charger mode, displaying charging current.	BLUE
	Fig 6. Charger mode, displaying charging voltage.	BLUE
	Fig 7. Charger mode, displaying battery is fully charged.	BLUE
	Fig 8. Error: Battery is too low to recharge the Batteryless Jump Starter.	RED
	Fig 9. Error: Reverse Polarity (Leads have been incorrectly connected or attached to the battery).	RED
	Fig 10. Error: Internal failure, do not use.	RED

Understanding the Features of your Batteryless Jump Starter

1. Pre-Charge Methods

1. **12V DC Battery** - Connect the Batteryless Jump Starter to a charged 12V DC battery by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal of the 12V DC battery, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal of the 12V DC battery, and press the ON / OFF Button (6), the Batteryless Jump Starter will begin charging automatically & be fully recharged in minutes.

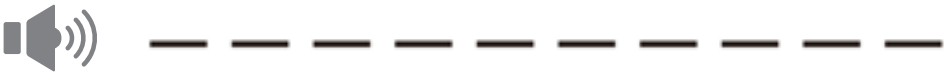
Note: If Fig 8 is displayed during the charging process at any stage, the battery being used cannot fully recharge the Batteryless Jump Starter.

2. **Battery with 2A USB Output Port**- The Batteryless Jump Starter can be recharged from any donor battery with a 5V DC 2A USB output port via a USB-Micro USB cable (not supplied).
   Connect the USB end of the USB cable (not supplied) into your USB batteries 5V DC 2A output port, then connect the Micro-USB end of the USB cable (not supplied) into the Micro USB Input Port (7), press the ON/OFF Button (6) and the Batteryless Jump Starter will begin charging.
3. **12V DC Socket (10)** - The Batteryless Jump Starter can be recharged from another car's 12V 10A output socket. Plug in the 12V DC Charger Adaptor (10) into your vehicles 12V DC output socket, then connect the plug located on the other end of the cable into the Power Adaptor/12V DC Input Port (8), press the ON/OFF Button (6) and the Batteryless Jump Starter will begin charging.
4. **Power Adaptor (11)** - Insert the plug located on the end of the Power Adaptor (11) cable, into the Power Adaptor/12V DC Input Port (8), plug the Power Adaptor (11) into your wall socket and turn the outlet ON.
   Press the ON/OFF Button (6) and the Batteryless Jump Starter will begin charging.

2. Sound Indicator

Note: The Built-in buzzer within the Batteryless Jump Starter delivers a sound alert advising you of the following situations.

1. Ready to start



2. Error

3. Operation Guide

WARNING! DO NOT crank the vehicles engine for more than 3-5 seconds per cranking/starting attempts.
WARNING! The Batteryless Jump Starter must be allowed to cool after consecutive cranking sessions, failing to do so may cause damage to the Batteryless Jump Starter. Damage caused is not covered under the Kincrome warranty policy.
KP8001 8 consecutive 3 second cranks, 15 minute cool down
KP8002 5 consecutive 3 second cranks, 20 minutes cool down

Caution: If the vehicle fails to start within the 3-5 seconds, there maybe a reason other than a flat battery to why your vehicle is not starting. Seek further advice from an automotive repairer to identify the cause (Any such costs associated with seeking advice from an automotive repairer is not covered by Kincrome).

WARNING! Disconnect the Batteryless Jump Starter immediately after the vehicles' engine has started.

		Petrol		Diesel		
Model	Cranking Current	Warm Engine	Cold Engine	Warm Engine	Cold Engine	Cold Engine (No Battery Fitted)
KP8001	400A	5.0 L	4.5 L	3.0 L	3.0 L	1.6 L
KP8002	800A	8.0 L	6.0 L	5.0 L	4.0 L	3.0 L

Operation

WARNING! Ensure that you turn OFF any non-essential vehicle accessories such as headlights, air conditioning, audio equipment & disconnect any trailer connections, fridges or appliances.

Note: For Diesel engine vehicles, please see GLOW PLUG mode on Page 7 prior to connecting the Batteryless Jump Starter to your vehicle & attempting to start your vehicle.

1. Standard Operation

A weak battery can fully recharge the Batteryless Jump Starter, as long as the battery voltage is above 5V.

1. Connect the Batteryless Jump Starter to the weak 12V DC battery in your vehicle by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal (Fig 11).

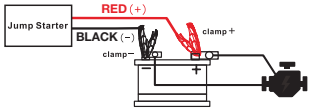


Fig 11

Note: If Fig 8. is displayed during charging, the weak battery can not fully recharge the Batteryless Jump Starter. Obtain another power source to charge the Batteryless Jump Starter.

2. The Batteryless Jump Starter will turn ON automatically and the LCD Control Panel Display (3) will indicate the vehicles' battery voltage as shown in Fig 1.
3. Press the ON / OFF Button (6), the Batteryless Jump Starter will start to recharge, the LCD Control Panel Display (3) will indicate the capacitor charging percentage (Fig 2). When charged to operation voltage, the LCD Control Panel Display (3) will display the ignition symbol (Fig 3).
4. Start the vehicles' engine, then immediately disconnect the Batteryless Jump Starter from the vehicles' battery.

2. Pre-Charge Operation (12V DC Donor Battery)

1. Pre-Charge the Batteryless Jump Starter by connecting the Batteryless Jump Starter to the 12V DC donor battery by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal, press the ON / OFF Button (6), the Batteryless Jump Starter will begin charging automatically & be fully recharged in minutes.

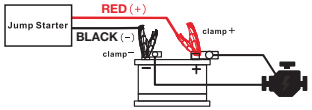


Fig 12

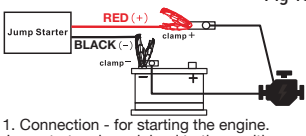
Note: If Fig 8 is displayed during the charging process at any stage when using a 12V DC donor battery, the battery being used cannot fully recharge the Batteryless Jump Starter. If this occurs obtain another power source to charge the Batteryless Jump Starter.

2. Disconnect the Batteryless Jump Starter from the 12V DC donor battery, connect the charged Batteryless Jump Starter to the flat battery in your vehicle by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal, connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal (Fig 12).
3. Press the ON / OFF Button (6) to activate the Batteryless Jump Starter, the LCD Control Panel Display (3) will now display the ignition symbol icon (Fig 3), confirming the Batteryless Jump Starter is ready to start your vehicle.
4. Start the vehicles' engine, then immediately disconnect the Batteryless Jump Starter from the 12V DC donor battery.

3. Bypass Operation

Note: If the Vehicle's battery is too flat to initiate the vehicles ECU, the LCD Control Panel Display (3) will show Fig 8 when using the weak/flat battery, please resort to Bypass Mode using the following steps.

Fig 13

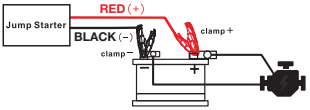


1. Connection - for starting the engine. Jumpstarter clamp joined to the positive cable terminal.

1. Pre-Charge the Batteryless Jump Starter using a method as advised in Operation 2.1 (Page 6).
2. Connect the Batteryless Jump Starter to the vehicle as shown in (Fig. 13). Disconnect the positive cable terminal from the vehicle's battery. Attach the Positive Battery Clamp **RED** (1) of the Batteryless Jump Starter to the positive battery lead terminal of the car. ENSURE that the battery lead can be reconnected to the battery WITH the Batteryless Jump Starter clamp still attached. (Ensure that the battery terminal hole is not obstructed by the Positive Battery Clamp **RED** (1).
3. Attach the Negative Battery Clamp **BLACK** (2) to the negative battery terminal (or relevant negative jump starter connection point of your vehicle)

WARNING! Ensure the Positive Battery Clamp RED (1) or vehicles battery lead terminal does not come in contact with the vehicles body or other metal components in the engine bay.

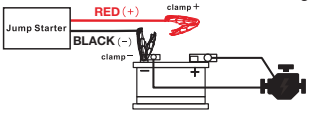
Fig 14



2. After Jump Start- engine has started replace the joined clamps onto the battery

4. Press the ON / OFF Button (6) for approx. 2-4 seconds to activate the Bypass Mode.
5. Start the vehicles engine.
6. As soon as the engine starts, reconnect the joined positive leads to the positive battery terminal (Fig 14). Once on the battery terminal, disconnect the Positive Battery Clamp **RED** (1) from the positive battery lead (Fig 15).
7. Tighten the vehicles' positive battery terminal securely.

Fig 15



3. Disconnection- With engine running and positive cable re-connected, remove both jump starter clamps.

Note: It may take up to an hour to fully charge the in vehicle flat battery using the vehicles alternator.

- It is suggested that you have your vehicles' battery and charging system checked by a mechanic or auto electrician to ensure that your vehicles charging system is functioning correctly, or if you suspect the battery is becoming unreliable. (any such costs associated with seeking advice from an automotive repairer is not covered by Kincrome).
- Or recharge your vehicles battery using the KP8001 / KP8002 Battery Charging Function or a battery charger compatible with your batteries ratings. Refer to the battery chargers output rating details to ensure it is suitable for use on your battery.

Note: KP8001 & KP8002 Battery Charger Function is shown on Page 8.

WARNING! DO NOT leave the vehicles' engine running with the Batteryless Jump Starter connected to the battery after jump starting the vehicle.

4. GLOW PLUG Mode (Use on Diesel Engine Vehicles)

Fig 16

Generally, a diesel engine vehicle requires the glow plugs to be first energized to heat up the engine chamber before the engine starts, as indicated by the GLOW PLUG icon on the dashboard of the diesel vehicle.
The process needs current of approx. 40-60 Amp and takes 4-6 seconds of power to pre-heat the GLOW PLUGS in the vehicles engine.

1. Ensure that the Batteryless Jump Starter is fully charged and connected to the vehicles battery, as described in Standard Operation 1.1, press the GLOW PLUG Button (5), and the GLOW PLUG icon will appear in the LCD Control Panel Display (3) (Fig 4).
2. Turn ON the vehicles ignition to pre heat the glow plugs of the vehicles engine.
3. After the vehicles glow plug icon extinguishes from the vehicle's dashboard, you may now start the vehicle's engine, immediately disconnect the Batteryless Jump Starter from the vehicle's battery.

Note: GLOW PLUG mode is inactive under Bypass mode.

5. Battery Charger Function (12V DC 2A Max)

This Batteryless Jump Starter also functions as a Battery Charger.

Fig 17

1. Connect the Positive Battery Clamp **RED** (1) to the positive battery terminal of the 12V DC battery, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal of the 12V DC Battery.
2. Insert the plug on the end of the Power Adaptor (11) into the Power Adaptor/12V DC Input Port (8), plug the Power Adaptor (11) into your wall socket and turn the outlet ON. Press the ON/OFF Button (6) and the Batteryless Jump Starter will begin charging.
3. Press the Battery Charger Button (4), and the Batteryless Jump Starter will initiate the charging function.
4. During the charging process, Fig 5 & Fig 6 will be shown on the LCD Control Display Panel (3). Fig 5 will display the charging current, Fig 6 will display the charging voltage.
5. Once the battery is fully charged, the word 'FUL' will be displayed on the LCD Control Display Panel (3) (Fig 7).

Frequently Asked Questions

Is a Batteryless Jump Starter safe for a car's ECU computer?

Yes. Batteryless Jump Starters use super-capacitors instead of a battery. The voltage of the capacitors are restricted within the safe range of all kinds of ECU's, so there is no risk from over-voltage damage. Capacitors have a very small charge, approx. 0.2 - 0.4 Ah. Disconnecting the Batteryless Jump Starter will not cause any high load dump, so there is no damaging voltage spike.

Most ECU jump start damage is caused by the following reasons:

1. **Jump starting Car to Car -** Not all modern cars have compatible charging systems and may cause damage to one or both if linked during a jump starting procedure.
2. **Jump Starting with a booster pack or other battery -** When a car is started by a booster pack or donor car's battery, the alternator will start to recharge both batteries after the engine has started. When the booster pack is disconnected from the car, the power produced by the alternator is much more than what the cars battery can absorb, thus pushing up the voltage. Transient voltage spikes can reach 25 - 100V, which can easily damage the ECU.

What is Bypass mode?

The ECU of some cars doesn't allow the engine to start if the batteries voltage is lower than 8V. In this situation, the positive battery lead needs to be disconnected from the car battery and connected directly to the Positive Battery Clamp **RED** (1). When connected like this the vehicle battery is "by-passed" (Bypass Mode). The ECU can then detect the higher voltage provided by the Batteryless Jump Starter and allow the car to start.

How long can the Batteryless Jump Starter hold charge?

The Batteryless Jump Starter will hold a charge for one to two days. The period of charge storage is a NOT a critical issue with your Batteryless Jump Starter as it can be rapidly charged from various power sources within minutes.

Does the Batteryless Jump Starter need to be regularly recharged?

No. Unlike a battery, capacitors do not require a shelf charge to stay functional, and therefore do NOT require ongoing recharge maintenance. The Batteryless Jump Starter can be operational within minutes.

Also Available

KICKSTART II
12 / 24V Batteryless Jump Starter
1000A 12V DC
1600A 24V DC

- Maintenance free
- Battery-less technology
- Ultra capacitor technology
- Starts petrol & diesel engine vehicles
- Ideal for emergencies: camping, boating & holidays
- Includes heavy duty protective case

KP8003

Battery Load Tester
6 or 12V <100A

- Test 6 or 12V DC lead acid batteries
- Test the charging system
- Anazlyze battery condition
- Test starter system on your vehicle

KP1460

Carbon Pile Battery Load Tester
12V <500A

- Tests 12V DC lead acid batteries, cranking & charging systems
- Tests batteries up to 160Ah/1000CCA
- 500A adjustable load
- Large colour coded display meters
- Powder coated metal housing with carry handle

KP1461

Spare Parts

No spare parts are available for this product. Contact Kincrome Customer Service, or visit the Kincrome website on www.kincrome.com.au for information regarding spares / replacement of this product in the event of any warranty claim.

Office Contact Details

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Website: www.kincrome.com.au

Caring For The Environment

When a tool is no longer usable it should not be disposed of with household waste, but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.

Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreases pollution in the environment. Please recycle packaging where facilities exist. Check with your local council authority for recycling advice.

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Made to Kincrome Tools & Equipment Pty Ltd Global specifications and quality standards in China

Warranty given by Kincrome Tools & Equipment Pty Ltd of 3 Lakeview Drive, Caribbean Park, Scoresby, Victoria, Australia (Tel +61 3 9730 7100) If this product has materials or workmanship defects (other than defects caused by abnormal or non warranted use) you can, at your cost, send the product to place of purchase, an authorised Kincrome service agent or one of Kincromes addresses for repair or replacement. Your rights under this warranty are in addition to any other rights you have under the Australian, United Kingdom & Ireland Consumer Law or other applicable laws. Our goods come with guarantees that cannot be excluded under the Australian, United Kingdom & Ireland Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For further details please visit www.kincrome.com.au or call us. Due to minor changes in design or manufacture, the product you purchase may sometimes differ from the one shown on the packaging.

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