KINCROME®
PROFESSIONAL QUALITY TOOLS

12 / 24V BATTERYLESS JUMP STARTER



KP8003
ED1/July 17

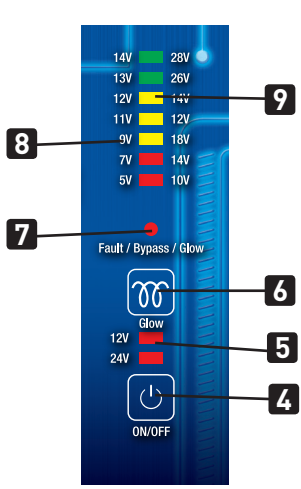
1000A 12V DC
1600A 24V DC

KINCROME
PROFESSIONAL QUALITY TOOLS

BATTERYLESS JUMP STARTER

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Know Your Product

1. Positive Battery Clamp **RED**
2. Negative Battery Clamp **BLACK**
3. Protective Case
4. ON / OFF Button
5. 12 / 24V Mode Indicator
6. Glow Plug Button
7. Fault / Bypass / Glow Indicator
8. Voltage Indicators
9. LED Voltage Indicator
10. Battery Terminal Wrench

Specifications

Part No	KP8003
Cranking Current	12V - 500A 24V - 800A
Peak Current	12V - 1000A 24V - 1600A
Recharge via 12V DC Battery	Approx. 1.5 min
Recharge via 24V DC Battery	Approx. 2 min
Max Consecutive Cranking Sessions	3
Min Interval Period Between Cranking Sessions	20 min
Ambient Operating Temperature Range	-40˚C ~ 65˚C (-40˚F ~ 149˚F)
Capacitor Lifetime	> 10,000 Starts
Dimensions	225 x 291 x 90mm
Weight	3.52kg

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.)

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 to be a vehicle jump starter.
2. DO NOT Use the Batteryless Jump Starter in a way for which it was not designed.

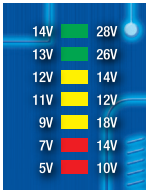
Labels on Tool

The following symbols are shown on the tool:

	The Charger is intended for indoor use only.		Dispose of battery as per local government requirements.
	Read the instruction manual before use.		Risk of explosion
	Warning		Eye Protection
	Safety Gloves		

Understanding the Features of Your Batteryless Jump Starter

Control Panel Display



A. Voltage Indicators (8) indicate the vehicles battery voltage after connecting the Batteryless Jump Starter or indicate the Batteryless Jump Starter's charge volume when charging.

B. LED voltage Indicators (9) illuminate from RED to GREEN as the Batteryless Jump Starter recharges.

Description	Voltage Indicator Colour
	
Fig 1. FAULT: RED LED - Solid steady colour **1.** Reverse Polarity. **2.** Vehicle battery is too low to recharge Batteryless Jump Starter. **3.** Battery Clamps (1 & 2) lose contact during recharging.	RED
	
Fig 2. READY: GREEN LED - Solid steady colour **1.** Batteryless Jump Starter is fully recharged and ready to start engine.	GREEN
	
Fig 3. GLOW: RED / GREEN LED - Alternating RED / GREEN colour constantly	GREEN / RED
	
Fig 4. OVERRIDE: GREEN LED - Flashing GREEN then steady GREEN colour **1.** Battery clamps (1 & 2) are energized without any protection.	GREEN
	
Fig 5. UNCERTAINTY: RED LED - Flashing RED & both 12V / 24V Mode Indicators (5) are illuminated in solid colour Batteryless Jump Starter is fully recharged to 24V mode from a 12V DC battery, this may happen from the following. **1.** Recharge the Batteryless Jump Starter to 24V mode from a 12V DC battery. **2.** The Batteryless Jump Starter is fully recharged from a weak 24V DC battery and battery's voltage has fallen down to lower than 15V.	RED

Understanding the Features of Your Batteryless Jump Starter (Cont.)

Note: The Batteryless Jump Starter should automatically detect a 12V or 24V DC battery once connected to the battery terminals. The battery voltage of the battery being used to charge the battery can be identified by the 12 / 24V Mode Indicator (5). Follow the below charging procedures based on the battery being used to recharge your Batteryless Jump Starter.

1. Pre-Charge Methods

1. **12V DC Battery Source for 12V Vehicle Jump Start -** 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 (4), the Batteryless Jump Starter will begin charging automatically & be fully recharged in minutes.
2. **24V DC Battery Source for 24V Vehicle Jump Start -** Connect the Batteryless Jump Starter to a charged 24V DC battery by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal of the 24V DC battery, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal of the 24V DC Battery, and press the ON / OFF Button (4), the Batteryless Jump Starter will begin charging automatically & be fully recharged in minutes.

Note: If the Fault / Bypass / Glow Indicator (7) is displayed during the charging process at any stage, the battery being used cannot fully recharge the Batteryless Jump Starter. Review & confirm the fault LED sequence, then determine the reason for the fault LED being illuminated in Understanding J / Starter Features on page 4.

Note: The Batteryless Jump Starter can be recharged from either a 12V DC battery or a 24V DC battery. If you are charging the Batteryless Jump Starter for a 24V purpose, however you are pre-charging the unit from a 12V DC battery, follow the below operation.

3. **12V DC Battery Source for 24V Vehicle Jump Start-** 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 (4), the Batteryless Jump Starter will begin charging automatically and charge to 14V.
4. After the Batteryless Jump Starter has charged to 14V you will need to press & hold down the ON / OFF Button (4) for 4 seconds to select the 24V function & the Batteryless Jump Starter will recommence charging up to 28V.
5. The Batteryless Jump Starter is now fully charged and able to start a 24V system vehicle.

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 20 mins after 3 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.

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)
KP8003	12V 500A	5.5 L	5.0 L	3.5 L	3.5 L	1.8 L
	24V 800A	N/A	N/A	7.0 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.

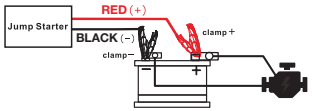


Fig 6

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 6).

Note: If the Fault / Bypass / Glow Indicator (7) 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. Press the ON / OFF Button (4), the Batteryless Jump Starter will start to recharge itself, Voltage Indicators (8) will flash ON/OFF while charging to a voltage & stay fully illuminated when the voltage has been achieved during the Batteryless Jump Starter charging process.
3. After the 14V (12V DC donor battery) / 28V (24V DC donor battery) LED Voltage Indicators (9) are fully illuminated a solid colour, turn ON the vehicles engine.
4. Disconnect the Batteryless Jump Starter from the vehicles battery immediately.

Note: if you are using a 12V DC battery to charge the Batteryless Jump Starter for a 24V application, you will need to follow the below instructions.

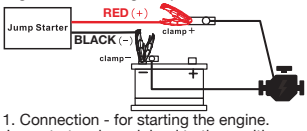
- 12V DC Battery Source for 24V Vehicle Jump Start - Connect the Batteryless Jump Starter to the weak battery in your vehicle by connecting the Positive Battery Clamp **RED** (1) to the positive battery terminal of the 12V DC battery, then connect the Negative Battery Clamp **BLACK** (2) to the negative battery terminal of the 12V DC Battery and charge to 14V.

5. After the Batteryless Jump Starter has charged to 14V you will need to press & hold down the ON / OFF Button (4) for 4 seconds to select the 24V function & the Batteryless Jump Starter will recommence charging up to 28V.
6. The Batteryless Jump Starter is now fully charged and able to start a 24V system vehicle.
7. Fully recharge the Batteryless Jump Starter in 12V mode.
8. Press the ON / OFF Button (4) for approx. 2 - 4 seconds to activate the 24V mode.

2. Bypass Operation

Note: If the Vehicle's battery is too flat to initiate the vehicles ECU, the LCD will show the Fault / Bypass / Glow Indicator (7) when using the weak/flat battery, please resort to Bypass Mode using the following steps.

Fig 7

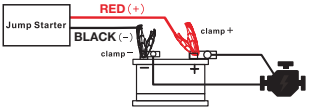


1. Connection - for starting the engine. Jumpstarter clamp joined to the positive cable terminal.

1. Pre-Charge the Batteryless Jump Starter using a method as advised in 'Pre-Charge Methods' on Page 5.
2. Connect the Batteryless Jump Starter to the vehicle as shown in Fig. 7. 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.

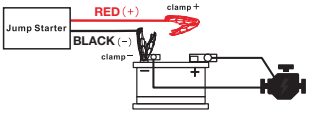
Fig 8



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

4. Press the ON / OFF Button (4) 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 8). Once on the battery terminal, disconnect the Positive Battery Clamp **RED** (1) from the positive battery lead (Fig 9)
7. Tighten the vehicles' positive battery terminal securely.

Fig 9



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 a battery charger compatible with your batteries ratings. Refer to the battery chargers output ratings details to ensure it is suitable for use on your battery.

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

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

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 about 4-6 seconds of power to pre-heat the GLOW PLUGS in the vehicles engine.



Fig 10

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 (6), the LED Voltage Indicator (9) will display 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.

Trouble Shooting

PROBLEM	CAUSES	SOLUTIONS
Both 12V & 24V Voltage Indicators (5) are on	Batteryless Jump Starter is in 24V mode while connected to a 12V DC Battery	Press ON / OFF Button (4) for approx. 2-3 seconds to activate 24V mode
		Wait up to 2 hours to activate 12V mode

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
2 in 1 Batteryless Jump Starter / Charger
8000A 12V DC

- Batteryless maintenance free technology
- Charge cameras, laptops, tablets, mobile phones
- Ideal for emergencies: camping, boating, holidays
- Heavy duty protective rubber cover

KP8001



KICKSTART II
2 in 1 Batteryless Jump Starter / Charger
1600A 12V DC

- Batteryless maintenance free technology
- Charge cameras, laptops, tablets, mobile phones
- Ideal for emergencies: camping, boating, holidays
- Heavy duty protective rubber cover

KP8002



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

Phone: 1300 657 528

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Email: enquiries@kincrome.com.au

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

12 MONTH WARRANTY

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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