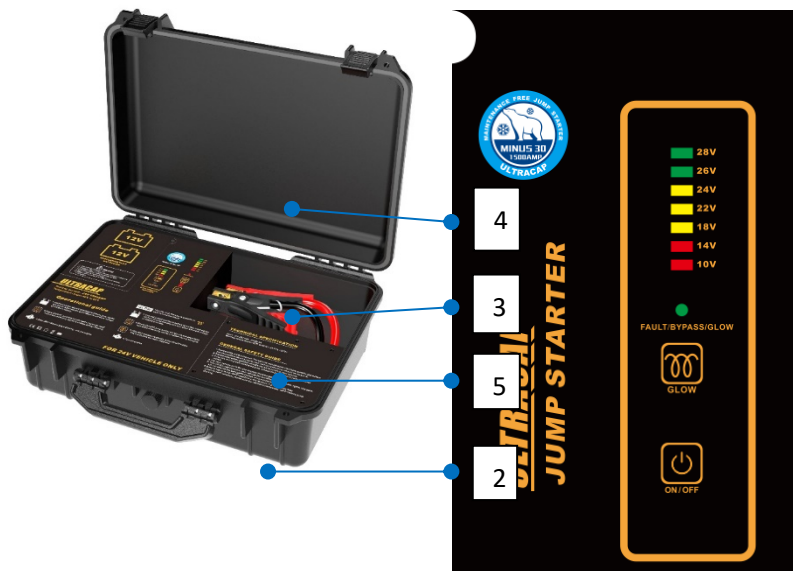


INSTRUCTION MANUAL

24V BATTERYLESS JUMP STARTER

ETUC24V

1. Clamps
2. ON / OFF switch
3. Condition Indicator
4. Voltage Indicator
5. GLOW Switch



1

Technical Specifications:

Input: DC12-24V 20A

Working temperature: -40°C to 65°C (-40°F to 150°F)

Starting current: 24V 1500 Amp

IMPORTANT SAFETY WARNINGS

1. Read the vehicle owner's manual. The vehicle manufacturer may have specific precautions / instructions about jump starting your vehicle. You must adhere to these.

2. Please read the instruction manual for this jump starter carefully before use. Please ensure you retain this manual for future reference.
3. Please wear safety glasses and gloves while jump starting your vehicle. Ensure your vehicle is in PARK and that the hand brake is applied
4. Turn off ALL electronics in the vehicle (air conditioner, radio, lights etc) to ensure the best performance of this jump starter. Ensure the key is in the off position in the ignition when setting up the jump starter
5. Do not attempt to jump start the vehicle for more than 3 seconds. Allow one minute between jump start attempts to avoid over heating.
6. In the event that the battery voltage is less than xxV you will need to use the Bypass (Override) Mode. **[how do you do this]**

[WARNING SIGN] Operate with caution as the Reverse Polarity Protection is DISABLED in Bypass Mode.

[WARNING SIGN] Use this jump starter only with 24V vehicles. This must NOT be used with 12V vehicles, such as passenger cars / SUVs

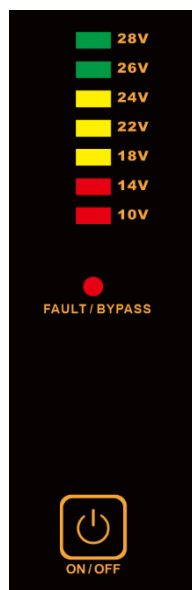
Operating Instructions

1. Standard mode



Turn off headlights, A/C, audio and etc.

In many situations, provided the vehicle battery has at least xxV residual charge, the vehicle battery will have sufficient energy to recharge this jump starter. Simply follow these three simple steps to get your truck started!



1. Σ Connect the jumper clamps to the battery terminals. The voltage indicators will show the vehicle battery's voltage.

2. Press the ON / OFF button. The jump starter will attempt to recharge itself from the residual energy in the battery. The voltage indicators will show the starter's voltage during charging.

3. Once the voltage indicator turns green, you can attempt to jump start the engine. Do not attempt to jump start the engine for more than 3 seconds. Allow time between jump starts to avoid overheating the jump starter. Σ

Σ
 Σ

2. Alternative Charging Method

In some instances, the truck voltage will have insufficient residual energy to full recharge this jump starter. In the event that the FAULT light turns on during charging, please follow the steps below.



1. Charge the jump starter from another power source. This can be either a 12V or 24V vehicle battery. Always ensure that the donor vehicle is running when charging the jump starter. Simply use the jump starter cables to charge the jump starter.



2. Disconnect the jump starter from the donor vehicle once the voltage indicator turns green. Now connect the jump starter to the vehicle which requires jump starting. The indicator will now show the voltage of the battery connected to the vehicle.



3. Press ON/OFF to activate the jump starter.



4. After the condition indicator turns green, turn on engine and attempt to jump start the vehicle. Do not attempt to jump start the engine for more than 3 seconds. Allow time between jump starts to avoid overheating the jump starter.

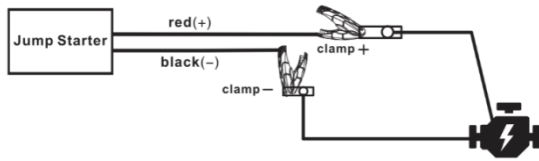
3. Bypass Mode

In the event that the engine cannot be jump started, a potential cause is that the jump starter is not detecting the jump start attempt because the current draw from the vehicle is too low to be detected by the unit.

The bypass mode is designed to manually activate the jump starter.



1. Precharge the jump starter unit using an alternative power source, such as another 12V or 24V battery.



2.Σ Connect the jump starter cables to the battery of the truck which you wish to jump start.

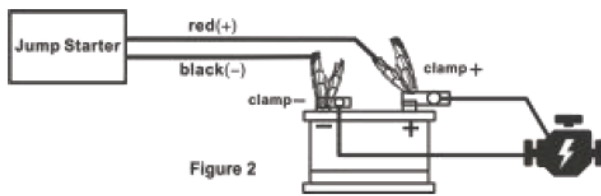


3.Σ Activate the bypass mode by long pressing the ON/OFF button for 2 seconds.



After the condition indicator turns green, turn on the engine. Do not attempt to jump start the engine for more than 3 seconds. Allow time between jump starts to avoid overheating the jump starter.Σ

4.Σ



5. Put positive lead to battery terminal together with positive clamp. Remove positive clamps after positive lead is fastened to battery terminal.

Warning:

**Do not leave engine running without jump starter or battery is firmly connected.
Do not reverse polarity. There is no reverse or short circuit protection at bypass.**

Condition indicator:



Steady red: cross polarity/ battery pack too weak



Steady green: Ready to start



Green blinking for 5 second then steady: Bypass mode