MATSON

THUNDERBOLT JUMP STARTER

MA8000 MANUAL

THUNDERBOLT JUMP STARTER

WARNING

To avoid any personal injury, please read the safety instructions below. This manual contains important safety and operating instructions for the MA8000 Thunderbolt Jump Starter. Consider ALL safety, warning and caution instructions carefully.

1. The equipment is intended for use by adults and should not be operated by children
2. The jump starter described in this manual is suitable for portable and emergency power applications. **DO NOT** exceed ratings nominated in the specifications
3. **DO NOT** attempt to charge or boost a frozen lead-acid battery
4. The jump start is equipped with polarity protection in the **OFF** position - prevent clamps from touching each other or contacting metal to stop accidental arcing
5. Only use attachments supplied with the equipment - failure to do so may result in personal injury or equipment damage or void warranty
6. When disconnecting power, pull by the plug - **DO NOT** pull on the power lead
7. Replace a damaged charger power lead immediately. Do not attempt to recharge the jump start if the equipment is damaged
8. Prevent submersion in water
9. Dispose of any faulty batteries in an environmentally responsible manner
10. **DO NOT** leave the jump start in a total discharge state for any period of time - permanent battery damage can result. When not in use, leave the jump start connected to the supplied battery charger, or recharge monthly and after every jump start performed.
11. **DO NOT** over crank the jump starter. Wait for 3-5 minutes between each crank

Avoid contact with battery acid - it is highly corrosive, causing burn injuries and equipment damage

Wear safety glasses to prevent eye injuries.

If acid contacts eyes - flush immediately with cold water for 10 minutes, and seek medical attention

Avoid contact with lithium.

Wear protective clothing to prevent acid contacting the skin

If battery acid contacts skin - wash immediately with soap and fresh water

Remove all jewellery and personal metal items when working with a lead-acid batteries

Avoid contact with lithium.

A lead-acid battery can generate explosive gases during normal battery operation.

To reduce risk of explosion, follow these instructions, those of the battery manufacturer and of any equipment being used in vicinity of battery

Use the jump start in a well ventilated area. **DO NOT** operate in the vicinity of flammables such as petrol etc.

DO NOT allow sparks or flame near the battery

Short circuiting the contacts can generate a spark, creating a potentially explosive situation - take care with tools and components

Never smoke while working with a lead-acid battery

FEATURES

OPERATIONAL AND SAFETY DESIGN FEATURE.

1. Provides more than enough power for starting most vehicles. May also be used in deep cycle applications
2. Powers most 12 volt DC equipment with a male cigarette DC plug
3. Is equipped with DC automatic overload protection
4. Contains 2 x 12V volt sealed batteries.
5. Is designed for use under all weather conditions

ALTERNATIVE POWER SUPPLY

Most vehicles have electronic components - alarm systems, radios, etc whose memory can be lost when the battery is disconnected. The jump start is a useful tool when replacing a battery - connect the jump start clamps to the vehicle battery cables / terminals BEFORE disconnecting them from the battery posts.Vehicle remains powered from the jump start.

MULTI PURPOSE POWER SOURCE

1. The jump start also powers any equipment incorporating a 12 volt DC male adapter. The jump start DC outlet has overload protection. DC power is generated only through the DC outlet
2. Used with an inverter, the jump start can operate appliances normally powered by 240 VAC
3. A maximum 300 Watt inverter is recommended

ANTIZAP® PROTECTION

Antizap® Surge Protection fitted to the THUNDERBOLT protects against surges and spikes. When the clamps are correctly connected, the Antizap Surge Protection LED illuminates - indicating the entire circuit is protected.

WARNING

STOP IMMEDIATELY if the REVERSE CONNECTION and WARNING LED sounds/lights, the clamps are connected in reverse. Remove the clamps and reconnect correctly.

Risk of Short Circuit. The REVERSE polarity LED and buzzer only provides an indication of a short circuit if the THUNDERBOLT is switched OFF.

Ignoring these warnings and switching the unit ON could result in:

- Personal injury to people in the vicinity,
- Equipment or vehicle damage,
- Sparks, flame and heat
- The warranty being void

SPECIFICATIONS

Cable Length	1.7M 50mm^2 high conductivity - including clamps
Clamps	Copper - industrial standard. Arc protected when unit in OFF position
Cold Cranking Amps - CCA	2000 CCA, 8000 Peak Amps @ 12 Volt
	1000 CCA, 4000 Peak Amps @ 24 Volt
Voltage Options	12VDC and 24VDC
Voltage and Current Protection	Antizap® Surge / Spike protection - when unit is in ON position
Antizap ® Operational Indication	Green flashing LED
Reverse Connection Warning	Red LED and Warning Buzzer in the OFF position only
Weight	40kgs
DC Power Outlet	12V with overload protection
Voltmeter	Digital
Recharge Capability	From 240VAC
Batteries	2 x 12V Lead Acid Batteries

OPERATION

INITIAL CHARGE

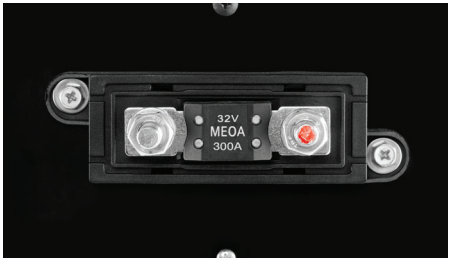
Before using the jump start for the first time, charge the unit for 24 hours, or until the RV210 Intelligent Battery Charger supplied with the equipment indicates fully charged.

OPERATION

1. Turn the ignition off before making connections
2. Ensure the THUNDERBOLT voltage selector is in the OFF position
3. Attach the red / positive + clamp to the battery positive terminal
4. Attach the black / negative - clamp to the battery negative terminal
5. Keep cables clear of moving objects
6. Keep people clear of the battery area
7. Once started, disconnect the black / negative - clamp from the battery negative terminal. Then remove the red / positive + clamp.

300A FUSE

- The Jump starter is protected towards the current surge with the inline 300A fuse
- If the fuse is blown , please check the capacity parameters of the vehicle
- Replacement fuses are available
- Part number - MA8000F



WARNING

Risk of Short Circuit.
The REVERSE polarity led and buzzer only provides an indication of a short circuit if the THUNDERBOLT is switched OFF.

RV210 CHARGER

GENERAL

The RV Battery Charger is a fully automatic microprocessor controlled battery charger / maintainer. The RV has been designed with the latest technology in Battery Care and Support.

RV210 BASIC OPERATION

1. Ensure the RV210 and the THUNDERBOLT are switched OFF before plugging RV210 into the THUNDERBOLT
2. Turn the THUNDERBOLT 12V & CHARGE / OFF / 24V switch to the 12V & CHARGE position for charging.
3. Plug RV210 charger into 240VAC and switch power on
4. Select required battery chemistry and current setting.
6. RV210 starts charging when it senses the battery voltage
7. Once charging has started, view battery voltage by pressing BATTERY TYPE button on the front panel. Press again to view Amps
8. FULL displays on the front display when the battery is fully charged.

Leave the THUNDERBOLT on charge when not in use - the RV210 is a Charger / Maintainer and will maintain the batteries in peak condition longer. Turn the THUNDERBOLT 12V & CHARGE / OFF / 24V switch to the 12V & CHARGE position for charging.

MAINTENANCE AND FAULT FINDING

TROUBLESHOOTING

Problem	Possible Solution
Charger works, but there is no volt charge on the display when the Switching Power Charger is connected to the jump pack	1. Possible defective battery or faulty breaker. Try using a device - light, TV, etc with a DC plug on it to see if it works 2. If it works, the jump start breaker is operational and the battery may be faulty
Charger comes to full charge, but display indicates low voltage	1. Jump start has a defective battery - could be the result of intense use without allowing a cool down period
Jump start is fully charged, but has no power	1. Check where the wire meets the jaw on the jump start clamp. Ensure they are well crimped, or 2. Ensure power switch is in the ON position.

FREQUENTLY ASKED QUESTIONS - FAQ

Q: How many jump starts can I expect from a fully charged unit before needing to be recharged?

A: Depends on the engine type and size, condition of battery and temperature - the jump start may be used up to 20 times before recharging in normal use environments.

Q: What is the ideal jump start storage temperature?

A: The jump start operates most effectively when stored at room temperature. The unit also operates at below 0º conditions, but with less cranking power. Excessive heat accelerates self discharge.

Q: When recharging the unit, when do I know the jump start is fully charged?

A: Check RV210 Operating Instructions

Q: How long should I charge the jump start?

A: Charge the jump start for a minimum of 24 hours when first purchased. The unit can be left on the wall charger continuously without damaging the unit.

Q: Can the self contained battery be recycled?

A: Yes - refer to REMOVAL AND DISPOSAL instructions

Q: How often should I charge the THUNDERBOLT?

A: Leave the THUNDERBOLT on charge when not in use - the RV210 is a Charger / Maintainer and will maintain the batteries in peak condition longer

WARRANTY POLICY

Products developed and sold by Tridon Australia Pty Ltd come with a guarantee for the reasonable life of the product, for the purpose it is commonly used. This is in addition to the rights of the consumer under the Australian Consumer Law.

To be considered for warranty please take the product with proof of purchase to the store where you purchased the product or contact Tridon Australia

The warranty is given by: Tridon Australia, 21-25 Derby St, Silverwater, NSW 2128.
Tel: 1300 362 263.
Email: mail@tridon.com.au

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage incurred if the product fails when used for the purpose for which it was intended. 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.

Tridon Australia will bear costs associated with claiming legitimate warranties. Proof of expenses incurred must be submitted to Tridon Australia Pty Ltd.