

CTEK MXS 5.0 (40-206)

CTEK MXS 5.0 Battery Charger User Manual

Model: MXS 5.0 (40-206)

1. INTRODUCTION

The CTEK MXS 5.0 is a fully automatic 12V 4.3 Amp battery charger and maintainer designed for a wide range of lead-acid batteries. It features a unique 8-step charging process, including desulphation and reconditioning functions, and built-in temperature compensation for optimal performance in various conditions. This manual provides essential information for safe and effective use of your MXS 5.0 charger.



Image: The CTEK MXS 5.0 charger with its included battery clamps, showcasing its compact design and clear indicator lights.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using the charger. Failure to do so may result in electric shock, fire, or serious injury.

- Ensure proper ventilation during charging.
- Do not charge frozen batteries.
- Avoid open flames or sparks near the battery.
- Wear eye protection and gloves when handling batteries.
- The charger is designed to protect vehicle electronics; however, always ensure correct polarity connection.
- Keep out of reach of children.

3. WHAT'S IN THE Box

Upon unpacking, verify that all components are present:

- CTEK - 40-206 MXS 5.0 Fully Automatic 4.3 amp Battery Charger
- CTEK Comfort Connect Clamps
- CTEK Comfort Connect 13/32" Eyelets
- Storage Drawstring Bag
- Battery Charger User Guide
- 5-Year Limited Warranty Information



Image: An illustration showing the CTEK MXS 5.0 charger along with its included accessories: battery clamps and eyelet connectors.

4. SETUP AND CONNECTION

Follow these steps to set up and connect your CTEK MXS 5.0 charger:

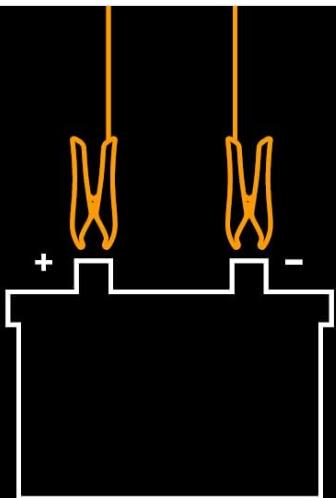
1. **Prepare the Battery:** Ensure the battery terminals are clean and free from corrosion. If the battery has vent caps, ensure they are securely in place.

2. Connect to Battery:

- For battery clamps: Connect the red (+) clamp to the positive battery terminal and the black (-) clamp to the negative battery terminal or a good chassis ground point away from the battery.
- For eyelet connectors: Permanently attach the eyelets to the battery terminals (red to positive, black to negative) and then connect the charger's output cable to the eyelet connector.

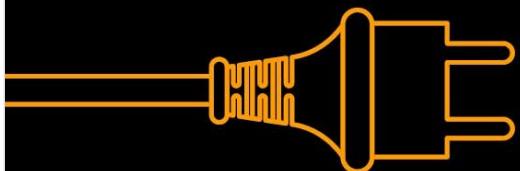
The charger is reverse polarity protected, but always double-check connections.

3. Connect to Power Outlet: Plug the charger's power cord into a suitable wall socket (110-120V AC). The charger will perform a self-test.



SAFE & EASY TO USE

1. Connect the charger
to the battery



2. Connect the charger
to the wall socket



3. Press the Mode-
button to select
charging program

Image: A visual guide demonstrating the three simple steps for connecting the charger: 1. Connect to battery, 2. Connect to wall socket, 3. Press Mode button.

5. OPERATING INSTRUCTIONS

The MXS 5.0 features an 8-step fully automatic charging cycle. Use the MODE button to select the appropriate program.

5.1 Charging Programs

Icon	Program	Description
	Motorcycle Mode	For smaller batteries (1.2-14 Ah), such as those found in motorcycles, ATVs, and lawnmowers.
	Car Mode	For standard car batteries (14-110 Ah), including most automotive, marine, and RV batteries.
AGM	AGM Mode	Optimized charging for AGM batteries. Select this mode if your battery is an AGM type.
RECOND	Recondition Mode	Used to restore deeply discharged and stratified batteries. This mode is typically used after a full charge cycle.

5.2 8-Step Charging Cycle

The MXS 5.0 automatically progresses through these steps:

- 1. STEP 1: DESULPHATION** - Removes sulphate from the lead plates to restore battery capacity.
- 2. STEP 2: SOFT START** - Tests if the battery can accept charge. Prevents charging a defective battery.
- 3. STEP 3: BULK** - Charges with maximum current until approximately 80% capacity.
- 4. STEP 4: ABSORPTION** - Charges with decreasing current to 100% capacity.
- 5. STEP 5: ANALYSE** - Tests if the battery can hold charge. If not, the battery may be faulty.
- 6. STEP 6: RECOND (Optional)** - Reconditioning mode for deeply discharged batteries.
- 7. STEP 7: FLOAT** - Maintains the battery at maximum voltage by providing a constant voltage charge.
- 8. STEP 8: PULSE** - Maintains the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when needed.

RECONDITION. RESTORE. MAINTAIN.
8-STEP, FULLY AUTOMATIC CHARGING CYCLE

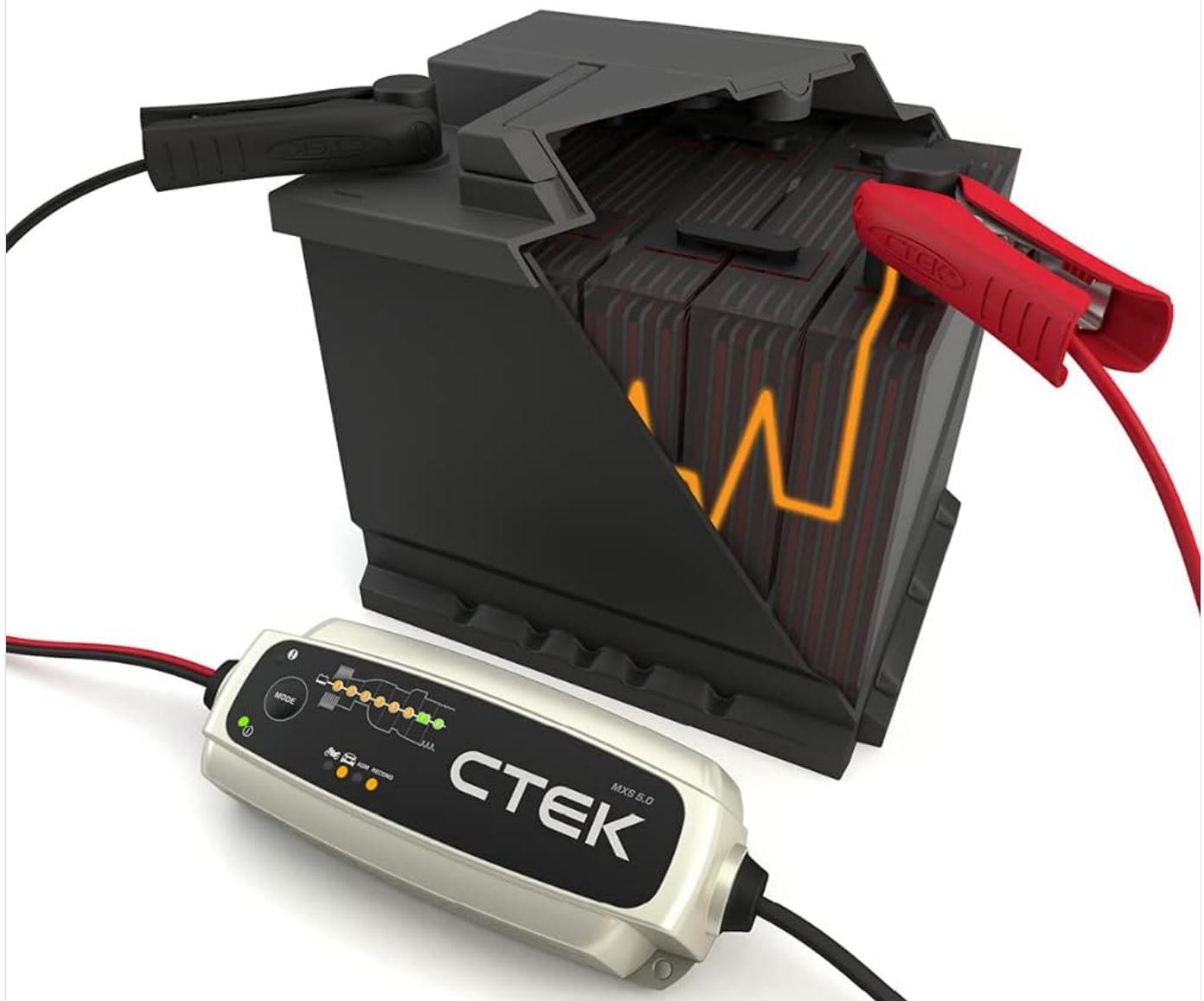


Image: An illustration depicting the internal process of the CTEK MXS 5.0 charger, showing how it reconditions, restores, and maintains a battery through its 8-step fully automatic charging cycle.

FOR ALL TYPES OF LEAD-ACID, 12V BATTERIES



SUPPORT FOR THE FOLLOWING BATTERY TYPES:

- AGM
- EFB
- MF
- CA/CA
- WET
- GEL

Image: Various lead-acid 12V batteries, including AGM, MF, EFB, CA/CA, WET, and GEL types, indicating the broad compatibility of the CTEK MXS 5.0 charger.

6. MAINTENANCE AND CARE

The CTEK MXS 5.0 is designed for minimal maintenance. However, following these guidelines will ensure its longevity and optimal performance:

- **Cleaning:** Wipe the charger with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are not kinked or damaged.
- **Cable Inspection:** Regularly inspect the charging cables and connectors for any signs of wear, cuts, or damage. Replace if necessary.
- **Temperature Compensation:** The built-in temperature compensation ensures efficient charging in extreme cold or hot weather conditions, requiring no user intervention.

IMPROVED CHARGING IN ALL WEATHER TYPES



PROTECT VEHICLE ELECTRONICS:

- *non-sparking*
- *reverse polarity protected*
- *temperature sensor for maximum performance*
- *short-circuit, splash, & dust-proof*

Image: The CTEK MXS 5.0 charger being splashed with water, highlighting its splash and dustproof design and suitability for all weather types.

7. TROUBLESHOOTING

If you encounter issues with your MXS 5.0 charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not start	No power from wall socket; incorrect battery connection; battery voltage too low.	Check wall socket; ensure correct polarity and secure connection; if battery voltage is extremely low, it may be unrecoverable.
Charging takes too long	Battery is very discharged; battery capacity is larger than expected; battery is old/damaged.	Allow more time; ensure correct program selected; consider battery replacement if it doesn't hold charge.

Problem	Possible Cause	Solution
Charger indicates error (e.g., red light)	Reverse polarity; short circuit; internal fault.	Disconnect and reconnect with correct polarity; check for short circuits; if error persists, contact support.

For further assistance, refer to the full user guide or contact CTEK customer support.

8. SPECIFICATIONS

Feature	Detail
Model	MXS 5.0 BATTERY CHARGER (Item model number: 40-206)
Voltage	12 Volts
Output Current	4.3 Amp
Battery Capacity	1.2-110 Ah (charging), up to 160 Ah (maintenance)
Charging Steps	8-step, fully automatic
Battery Types	All types of 12V lead-acid batteries (WET, MF, Ca/Ca, AGM, GEL)
Dimensions (L x W x H)	11.02 x 5.91 x 2.36 inches
Weight	1.3 pounds
Protection Features	Splash and dustproof, non-sparking, reverse polarity protected, short-circuit proof, built-in temperature compensation.

9. WARRANTY AND SUPPORT

The CTEK MXS 5.0 Battery Charger comes with a **5-year limited warranty** from the date of purchase. This warranty covers defects in material and workmanship under normal use.

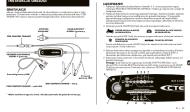
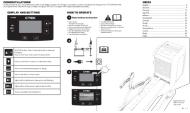
For warranty claims, technical support, or further inquiries, please refer to the official CTEK website or contact their customer service directly. Keep your proof of purchase for warranty validation.

Official User Manual (PDF): [Download PDF](#)

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Related Documents - MXS 5.0 (40-206)

	CTEK MXS 7.0 Battery Charger User Manual Comprehensive user manual for the CTEK MXS 7.0 battery charger, detailing its features, charging programs, technical specifications, and safety guidelines for all types of 12V lead-acid batteries.
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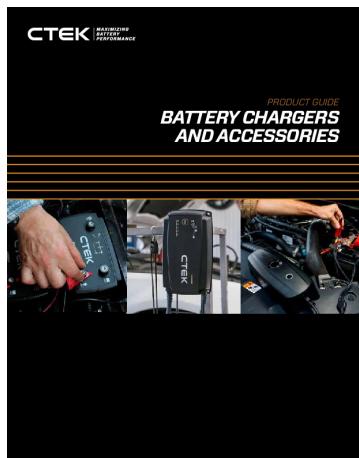
	<p>CTEK MXS 5.0 Battery Charger User Manual</p> <p>Comprehensive user manual for the CTEK MXS 5.0 battery charger, covering safety instructions, operating procedures, charging programs, technical specifications, and warranty information.</p>
	<p>CTEK Start/Stop Battery Charger and Maintainer User Guide</p> <p>Comprehensive guide to the CTEK Start/Stop battery charger and maintainer, covering technical specifications, usage instructions, and warranty information. Supports various 12V lead-acid batteries including AGM and EFB.</p>
	<p>Instrukcja Obsługi CTEK MXS 5.0 Test & Charge</p> <p>Szczegółowa instrukcja obsługi dla ładowarki CTEK MXS 5.0 Test & Charge, obejmująca tryby ładowania, procedury testowe, wskazówki bezpieczeństwa, specyfikacje techniczne oraz informacje o gwarancji.</p>
	<p>CTEK PRO60/PRO120 Battery Charger User Manual</p> <p>Comprehensive user manual for the CTEK PRO60 and PRO120 professional battery chargers, detailing operation, charging modes, technical specifications, and troubleshooting.</p>
	<p>CTEK PRO60 Professional Battery Charger Manual</p> <p>A comprehensive guide to operating and understanding the CTEK PRO60 professional switch-mode battery charger, covering its features, charging programs for lead-acid and lithium batteries, technical specifications, and troubleshooting.</p>

Documents - CTEK – MXS 5.0 (40-206)

[\[pdf\] Guide Accessories](#)

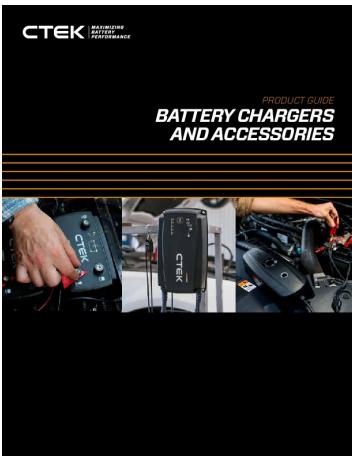
BATTERY CHARGERS AND ACCESSORIES CTEKMUS 7002 PART NO 56 353 The MUS is the perfect all around 12V charger Due to its power and robust features it a great for high CTEK productguide low NA ENctek storage C01E4DACD17EAB6B46B73F54B7B13249DBDF1662DEF88B8B70FEBFCC742F938 387817b94064445a988916eab15ce397 media d96c24c42873461fb9183bdb20bd3eb7 CTEK EN srsltd AfmBOoqp aR6wDZcZ bsqWvtCrE2n8fLi aduW5M035Bvoc7x1yv8bTr CTEKBATTERY Pro Series chargers offer safe simple use effective solutions workshop battery support charging needs Page 16 Professional CTEK ENCTEK aduW5M035Bvoc7x1yv8bTrctek AfmBOoqDacN jjfaKe8aGBuQPhPzkCu82d6OnTbXQmBRG9YgY19TaWxM Professional CHARGING FOR BATTERIES FROM 40 300AH WHILE YOU RE ON THE MOVE DUAL INPUT SOLAR ALTERNATOR IN PARALLEL SMART COMPATIBLE BATTERY CTEK jjfaKe8aGBuQPhPzkCu82d6OnTbXQmBRG9YgY19TaWxMctek AfmBOopZDdCb6L2lZPBytY9K18jGwoV1IBB4BL4C3aFTWfV37IHDVnYn BATTERY Tests if holding charge Batteries that cannot hold may need replacement STEP 6 RECOND When selected this step provides a CTEK AfmBOopZDdCb6L2lZPBytY9K18jGwoV1IBB4BL4C3aFTWfV37IHDVnYnctek AfmBOooRiGU9C7QjP3i4ngPzpgTIYDEOWD 7yfTIPw5kA5NfwUyRild2 a Made from super tough fibreglass you simply unfold connect your It s time start thinking about RED means the CTEK 7yfTIPw5kA5NfwUyRild2ctek AfmBOoodmZsQ3qW0zpwWZWrle5nH7RCsxu07nxz6ps76TJGiXa4KbLYI the Made AfmBOoodmZsQ3qW0zpwWZWrle5nH7RCsxu07nxz6ps76TJGiXa4KbLYIctek AfmBOopVrtQWcGlpq ekfZK3LMdjjY51XLjhmgbtR5X7gALukduh3Os ekfZK3LMdjjY51XLjhmgbtR5X7gALukduh3Osctek AfmBOoroCD cJYRbM NG5DEKCKRHwGeM3pPuXYLxCgqwOMkFb2WO xP xPctek AfmBOorg 87xvxae7iXg1dL9PQD5H0ax6aLzTx7U3Xmaeyms399X6D5f 87xvxae7iXg1dL9PQD5H0ax6aLzTx7U3Xmaeyms399X6D5fctek AfmBOoqZHMddtX6IX tJiyrgHcYp4X7qp2jn6vZIU2zzSxPTw2zfAij1 tJiyrgHcYp4X7qp2jn6vZIU2zzSxPTw2zfAij1ctek AfmBOopVV37oyjgRlxPl5JvdUTGiDp6o9tFQ02jTQSPO V3LH1AOueu V3LH1AOueuctek AfmBOorO2HCB1NyU8FDXO9 8DHIBRy44qRdrnYv2mkOTU7L03GfaIXTc

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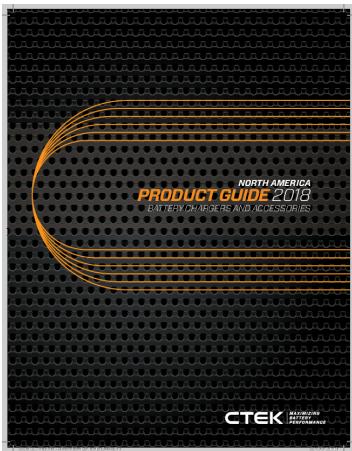


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