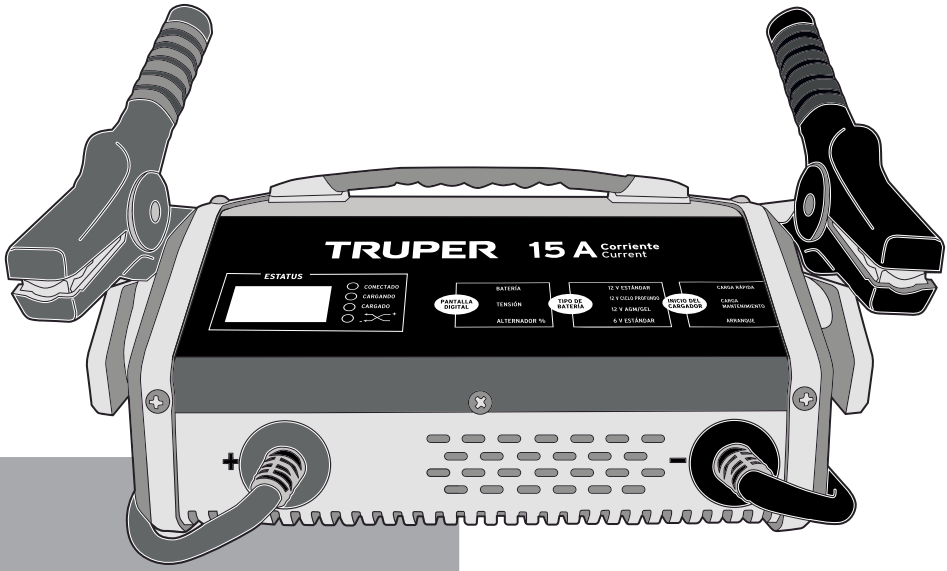
ENGLISH
ESPAÑOL

TRUPER®

Manual

Automatic battery charger with engine starter



CARBA-50X

Applies for:

Code	Model
12889	CARBA-50X

⚠ CAUTION Read this manual thoroughly before using the tool.

1 YEAR WARRANTY – 1 YEAR WARRANTY

TRUPER

Contents

⚠ CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

This device is overload protected with a thermal fuse that turns on when there is no power.

⚠ If the battery is damaged, the charger does not supply power for safety.

Technical Data

	CARBA-50X
Code	12889
Description	Automatic battery charger with engine starter
Input voltage	127 V~
Frequency	60 Hz
Current	1.24 A - 4.3 A
Output voltage	6 V⎓ / 12 V⎓
Quick charge	12 V⎓ / 15 A
Maintenance charge	12 V⎓ / 6 V⎓ / 6 A <> 2 A
Engine start	12 V⎓ / 75 A 3 seconds on 180 seconds off
Duty cycle	Maximum 5 cycles
Insulation class of the transformer	Class H

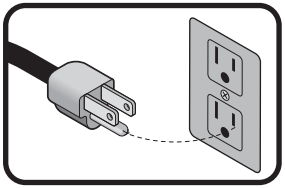
The power cable has cable clamps of the type: Y
All conductors are: 18 AWG x 3C
with insulation temperature of 221 °C

⚠WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER Authorized Service Center.
The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use.
Do not expose to rain, liquids and/or dampness.

⚠WARNING Before gaining access to the terminals all power sources should be disconnected.

Power Requirements

⚠WARNING If faults or breakdowns happen. Ground connection offers a trajectory with minimum resistance for electric power. It reduces the risk of electric shock. This tool is built with a power cable with an earth conductor and ground connection. The plug shall be connected into a power outlet installed and grounded according to all local codes.



⚠CAUTION When using an extension cord, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cord's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension gauge from 6' to 49'	Extension gauge higher than 49'
from 0 A and up to 10 A	3 (one grounded)	18 AWG (*)	16 AWG
from 10 A and up to 13 A		16 AWG	14 AWG
from 13 A and up to 15 A		14 AWG	12 AWG
from 15 A and up to 20 A		8 AWG	6 AWG

* It is safe to use only if the extensions have a built-in artifact for over current protection.
AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

⚠ADVERTENCIA

When operating electric tools outdoors, use a grounded extension cord marked as VOLTECK 'Outdoor Use'. These extensions are specially designed for outdoor use and reduce the risk of electric shock.

General power tool safety warnings

⚠WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.
Cluttered and dark areas may cause accidents.

Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
Sparks generated by power tools may ignite the flammable material.

Keep children and bystanders at a safe distance while operating the tool.
Distractions may cause loosing control.

Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.
Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.
The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.
Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.
Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.
Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.
Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.
Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.

Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.
Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.
Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.
This enables a better control on the tool during unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.
Loose clothes, jewelry or long hair may get caught in moving parts.

If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.
Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.
The correct tool delivers a better and safer job at the rate for which it was designed.

Do not use the tool if the switch is not working properly.
Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.
These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.
Power tools are dangerous in the hands of untrained users.

Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.
Most accidents are caused due to poor maintenance to the tools.

Keep the cutting accessories sharp and clean.
Cutting accessories in good working conditions are less likely to bind and are easier to control.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.
Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a TRUPER Authorized Service Center using only identical spare parts.
This will ensure that the safety of the power tool is maintained.

Additional safety rules for the battery charger.

General battery safety

Battery chargers can recharge deep-cycle (standard) AGM and GEL lead-acid batteries and can also be used as a starting aid.
These chargers have overheating protection and current surge protection. They are safe and reliable to use.
The battery charger's function includes selecting the charging current. This control is integrated into the charger's front panel and is easy to use.

When using the battery charger, the following safety rules must be observed to protect the safety of people and their property.

1. Do not expose the charger to rain or snow.
2. Using any accessory that has not been recommended or sold by the battery manufacturer may cause fire, electric shock, or injury to people.
3. When disconnecting the charger, do so by the plug, not the cable. Failure to do so may damage both the cable and the plug.
4. Extension cords should not be used unless necessary. Improper extension cord use may cause fire and electric shock.

(a) It is permitted to be used if the extension cords themselves have an overcurrent protection device.
(b) On e of the conductors must be a grounding conductor. All conductors, including the grounding conductor, have the same designation (gauge). Reference: NMX-J-195-ANCE

5. Do not operate the charger if the cable or plug is damaged. Take it to a TRUPER Authorized Service Center.
6. Do not use the charger if it has received a strong impact, been dropped, or is damaged in any way. Take it to a TRUPER Authorized Service Center.
7. Do not disassemble the charger. When service or repair is required, take it to a TRUPER Authorized Service Center. Reassembly may result in fire or electric shock.
8. To reduce the risk of electric shock, disconnect the charger from the outlet before performing any maintenance or cleaning tasks. Turning off the controls does not reduce these risks.

9. **⚠WARNING** RISK OF EXPLOSIVE GASES

   A) WORKING NEAR A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. BECAUSE OF THIS, IT IS VERY IMPORTANT THAT EVERY TIME, BEFORE USING THE CHARGER, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

   b) To reduce the risk of battery explosion, follow these instructions and the instructions provided by the manufacturer of any equipment you use near the battery. Review the precautionary measures for this product and the engine.

10. Personal Precautions:
    a) Have someone nearby to assist you when working with a lead-acid battery.
    b) If battery acid contacts your skin, clothing, or eyes, keep plenty of fresh water and soap nearby.
    c) Wear full eye protection and protective clothing. Avoid touching your eyes while working near the battery.
    d) If battery acid contacts your skin or clothing, wash immediately with soap and water. If acid enters your eyes, flush with cold water for at least 10 minutes and seek medical attention immediately.
    e) NEVER smoke or allow sparks or flames near the battery or engine.
    f) Be very careful not to drop a metal tool onto the battery. This could cause a spark or short circuit in the battery or another electrical part and cause an explosion.
    g) Remove personal metal items such as rings, bracelets, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or any other metal item, causing severe burns.

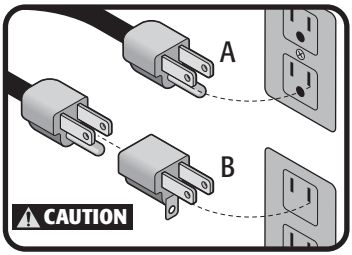
h) Use the charger only for recharging LEAD-ACID batteries (standard, AGM, gel). It is not designed to supply power to low-voltage electrical systems other than for engine-starting applications. Do not use the battery charger to recharge dry-cell batteries commonly used in household appliances. These batteries may explode, causing injury to persons and damage to property.
i) NEVER charge a frozen battery.

Instructions for grounding and connecting an AC power cord.

To reduce the risk of electric shock, the charger must be grounded. The charger is equipped with an electric cord a grounding conductor, and a grounding plug. The plug must be connected to an outlet that is properly installed and grounded in accordance with local codes and ordinances.

⚠WARNING NEVER alter the AC power cord or plug that comes with the equipment. If it cannot be inserted into the outlet, have a qualified electrician install the appropriate outlet. An improper connection can result in electric shock.

This battery charger is designed for use on a nominal 127 V circuit and has a grounding plug like the one shown in Figure A. A temporary adapter like the one illustrated in figure B may be used if a properly grounded outlet is unavailable. The temporary adapter may be connected to a two-pole outlet, as Figure B shows. This temporary adapter should only be used until a qualified electrician can install a properly grounded outlet.



⚠WARNING Before using the adapter, as illustrated, ensure that the center screw on the outlet plate (if present) is grounded. The rigid green grounding tab or lug coming from the adapter should be connected to a grounded outlet. If necessary, replace the plate screw with a longer screw that can secure the rigid tab or lug and make a grounded connection to the grounded outlet.

When the battery charger is connected, and the switch is in the on position, be careful that the clamps do not touch each other.

Never charge a battery with the switch in the on position, nor charge a 6 V⎓ battery in the 12 V⎓ position.

Preparation for charging

a) If you need to remove the battery from the vehicle and move it to the charger, always remove the grounded terminal from the battery first. Ensure all vehicle accessories are off to prevent sparking.
b) Ensure the area around the battery is well-ventilated when charging. You can disperse gas from the area by blowing it with a cardboard sheet or other non-metallic material used as a fan.
c) Clean the battery terminals. Be careful not to let corrosion meet your eyes.
d) Add distilled water to each cell until the battery acid reaches the specified level indicated by the battery manufacturer. This helps purge excess gas from the cells. Do not overfill. For batteries without cell caps, carefully follow the recharge instructions provided by the manufacturer.
e) Familiarize yourself with all preventive measures specified by the battery manufacturer, such as whether to remove cell caps when recharging and recommended charging rates.
f) Determine the battery voltage by checking the car manual. If the charger has adjustable charging speed, charge the battery initially at the lowest speed.

Charger location

a) Position the battery as far away from the charger as possible.
b) Never place the charger directly on the battery being charged, as battery gases can corrode and damage the charger.
c) Avoid letting battery acid drip onto the charger when checking gravity or refilling.
d) Operate the charger only in well-ventilated areas; do not obstruct ventilation.
e) Do not place the battery on top of the charger. The charger generates heat during operation, so ensure the vents are not covered by any objects.

DC Connection precautions

a) La conexión y desconexión de las pinzas del cargador a la batería solo se debe hacer con el cable de alimentación desconectado de la fuente de electricidad o tomacorriente.

1. Connecting cables to the battery when installed in the vehicle.

Before connecting the charger, follow these instructions:

Check the polarity of the battery posts. The POSITIVE (+) post usually has a larger diameter than the NEGATIVE (-) post.

a) To charge the vehicle-installed battery, first attach the red clamp to the positive (+) post and the black clamp to the chassis or any unpainted metal part. NEVER connect the black cable (-) to the fuel lines or the carburetor.
b) Plug the charger's power cable into the outlet. *
c) SELECT the panel's battery type and desired charge settings; the charger will initiate battery charging.
d) Once the battery is fully charged, unplug the charger's power cable from the outlet.
e) Disconnect the black clamp from the chassis first, followed by the red clamp from the battery post.

* Avoid using extension cords; refer to the instruction manual for using the correct gauge if necessary.

2. Charging the battery outside the vehicle

*The battery of a marine boat should be removed and charged on land. Charging on board requires equipment specially designed for marine use.

Before connecting the charger, follow these instructions:

a) Connect the red clamp (+) from the charger to the positive (+) battery post. Wiggle the clamp to ensure a solid connection.
b) Attach a 6 AWG gauge insulated battery cable, at least 24" long, to the NEGATIVE battery post. This cable provides a secure connection and prevents sparking directly on the battery post.
c) Take the other end of the 24" insulated 6 AWG cable. While keeping yourself at a safe distance from the battery, connect the black (NEGATIVE) clamp to the free end of the cable. Ensure the clamp is securely attached. IMPORTANT: Wear safety goggles and avoid facing the battery when making the final connection.
d) SELECT the charger panel's battery type and desired charging settings and begin charging the battery.
e) After fully charging the battery, disconnect the charger's power cable before removing the charger clamps.
f) Stand clear of the battery when removing the charger cables. Remove the NEGATIVE (-) clamp first, followed by the POSITIVE (+) clamp from the battery post.
g) Clean and store the battery charger in a dry place.

Intended use

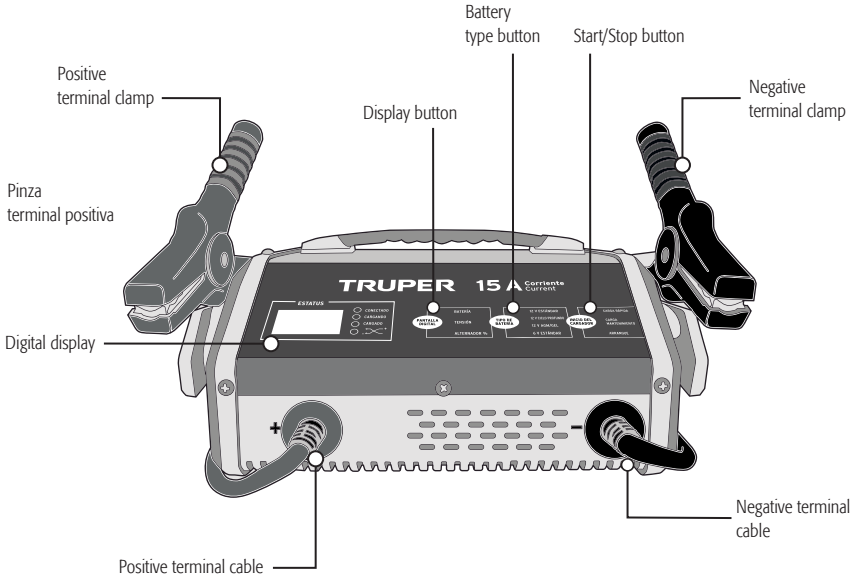
This automotive charger is equipped with continuous and slow charging boost (Software chip), designed for charging and slow-charging various rechargeable batteries, including 6 V⎓ or 12 V⎓ with electrolyte solution, AGM batteries, lead-acid batteries, deep cycle (marine batteries), gel batteries:

- Suitable for automotive or motorcycle batteries rated at 12 V⎓ / 6 V⎓ with capacities ranging from 8 Ah to 180 Ah.

The charger includes built-in protection against sparks and overheating. Any misuse or improper use will void the warranty, and the manufacturer disclaims responsibility for damages resulting from such use. Please note this device is not intended for commercial applications.

NOTE: This automotive charger is unsuitable for recharging electric vehicles with integrated rechargeable batteries.

Parts



Operation

⚠CAUTION

Disconnect the power cable before performing any work on the automotive charger. There is a risk of electric shock and injury.

Product features

This device is designed to recharge several SLA batteries (Sealed Lead Acid) used primarily in cars, motorcycles, and other vehicles.

These may include wet batteries (with liquid electrolytes), gel batteries (with gel electrolytes), AGM batteries (with absorbent glass mat separators), or silicon batteries. The device's special design, also known as the "three-stage charging strategy," allows the battery to be charged to nearly 100% of its capacity. The charger can also be connected to the battery for extended periods to maintain it in optimal condition.

Connection

- Before recharging or trickle charging a battery permanently connected to the vehicle, first disconnect the connection cable from the battery's negative terminal (black), which typically connects to the chassis.
- Then, disconnect the connection cable from the battery's positive terminal (red).
- Only then can the positive clamp (red) of the battery charger "+" be connected to the "+" terminal.
- Connect the negative clamp (Black) "-" to the battery's "-" terminal. Connect the auto charger cable to the wall outlet.

NOTE: If the battery charger clamps are correctly connected, the display will show a voltage value, and the word "connected" will light up. If the poles are reversed, the display will show 0.0, and the word "connected" will not light up.

To disconnect

- Unplug the device from the power outlet.
- Remove the negative clamp (Black) "-" from the battery terminal "-".
- Remove the positive clamp (Red) "+" from the battery terminal "+".
- Reconnect the vehicle's positive connection cable to the battery's positive terminal.
- Reconnect the vehicle's negative connection cable to the battery's negative terminal.

Mode selection

Using different charging modes, you can charge a variety of batteries at different ambient temperatures. Compared to conventional car chargers, this device has a special function for reusing a dry or rechargeable battery.
It can recharge a completely dry battery or a rechargeable battery. The safe charging process protects against faulty connections and short circuits.
The integrated electronics do not activate the car charger after being connected; they activate only after the charging mode is selected. If the connector clamps, connected to the battery and device, are plugged into the power supply, the "Connected" LED will light up.

After selecting the charging mode, the "Charging" LED will light up. Once charging is complete, the "Charged" LED will light up.

A continuously lit screen indicates a fault when the battery is not fully charged. In this case, check the clamp connections to ensure they are properly connected to the battery and that the correct battery type is selected. If the screen continues to stay lit, the battery may be defective.

Digital screen button

Use this button to switch between the digital voltage display and the charging progress percentage (battery 100%). Use this button to switch between the following screens:

- BATTERY: Indicates the percentage of charge charged to the connected battery.
- VOLTAGE: Indicates the voltage value of the connected battery.
- ALTERNATOR %: Output power in percent.

Battery type button

Use this button to set the type of battery to be charged. Different battery types can be selected. The battery type must be selected correctly before starting the charging process:

- 12 V REGULAR: These batteries (lead-acid batteries) are typically used in cars, trucks, and motorcycles. They have ventilation caps and are often labeled as "maintenance-free" or "low-maintenance." This type of battery is designed to transfer power (e.g., starting the engine) quickly. Regular batteries should not be used for deep-cycle applications.
- 12 V DEEP CYCLE: These batteries are commonly labeled as "Deep Cycle" or "Marine." They are typically larger than other batteries. They provide less power in the short term but deliver power for longer. These batteries withstand multiple discharge cycles.
- 12 V AGM/GEL: The AGM battery type is typically a deep-cycle battery. It provides the best "life" when recharged before becoming more than 50% discharged.
  When fully discharged, it can withstand around 300 charge cycles. The Gel battery type is like AGM. The charging voltage is lower than that of other lead-acid batteries. Using the wrong charger on a Gel battery will reduce power or shorten its lifespan.
- 6 V REGULAR: Select this mode for conventional 6 V⎓ batteries.

Battery start button

Use this button to switch between the following options:
- QUICK CHARGE: Very rapid charging (recommended in cold outdoor temperatures/winter).
- MAINTENANCE CHARGE: Normal charging process (standard speed).
- START: Provides 75 A to jump-start a weak or dry battery to start an engine.

⚠CAUTION You can exit this mode only by disconnecting the plug.

- If returning to the charging mode is not possible, restart the charger by disconnecting and reconnecting the plug. The battery start button will change functions only if the battery is connected and not damaged.

Start

⚠WARNING Always make connections as described and in the correct order. Otherwise, the vehicle's electronic equipment may be damaged. Proceeding against specifications is at your own risk and responsibility.

⚠WARNING This function is not suitable for batteries below 45 Ah. Using this function on batteries below 45 Ah may cause damage.

Diesel vehicles and engines with large displacements require amperages above 75 A for starting.

NOTE: The charger offers an analysis program to protect the battery from damage (e.g., sulfation or rapid voltage drops), especially when starting.

The device will not activate to protect the battery when starting with severely dry or worn-out batteries. During the process, the battery is charging with lower currents (the Charging LED lights up). The display continues to read “0.” In this case, the start function cannot be used. This protects the battery from damage.

First, you must charge the battery. You can also use the FAST CHARGE or MAINTENANCE CHARGE functions for this purpose.

- Connect the car charger cable to the power supply.
- Connect the red connector clamp to the battery's positive terminal (marked with the symbol + and a black mark).
- Connect the black connector clamp to the battery's negative terminal (marked with the symbol "-" and a black mark).
- If the connector clamps are connected correctly, the car charger will automatically select the correct battery type. You can check the "Battery Type" field options and, if necessary, adjust them by pressing the battery type button.
- Now select the “Start” function using the START BUTTON. The car charger will analyze the battery's charge level. The display will show "0".
- Start the vehicle. The screen will display a countdown of 5 seconds (2 seconds for preparation/analysis function and 3 seconds for starting at 75 A) when the car charger is needed to start (previously analyzed by the car charger). During the countdown, the car charger briefly supplies 75 A to jump-start the battery and start the vehicle. This is followed by a 180 - second pause to protect the battery. Now the cycle restarts (2 seconds for preparation/analysis function and 3 seconds for starting at 75 A / 180-second pause).
- To disconnect the device, first remove the clamps from the terminals and disconnect the cable.

NOTA: If the battery is completely dry, 75 A may not be sufficient to start all engines (e.g., diesel vehicles). In this case, select the FAST CHARGE option using the charge button and charge the battery to 60% (Diesel engine preheating pulls power from the battery, so 60% after preheating is required).

You can monitor the charging process on the screen by selecting the BATTERY option with the digital screen button. Once it reaches 60%, restart.

⚠ATTENTION Exit the mode by disconnecting the power cable.

Maintenance

Always disconnect the power plug when the battery charger is being serviced or cleaned.
Never use water or other liquids to clean the charger. Keep the cable and battery charger clean. Some cleaners and solvents (gasoline, thinner) can affect or dissolve plastic parts. These products contain benzene, trichloroethylene, chlorine, and ammonia.

⚠WARNING To avoid electrical hazards, the charger must be connected to an adequately grounded electrical supply and should not be exposed to rain or snow. Any damaged cables should be replaced immediately by a certified specialist.

Fuse replacement

The fuse in the car charger can be damaged by hardware failures, overloads, etc.

- Disconnect the power cable before replacing the fuse.
- Remove the fuse cover by gently pressing it aside.
- Unscrew the fuse with a combination wrench and secure the new fuse.
- Tighten it securely in place and replace the cover.

NOTE: If you need a new fuse, contact a TRUPER Authorized Service Center.

Defective batteries

- Damaged batteries that do not hold a charge. Batteries in very poor condition often cannot be charged anymore and must be replaced.
- Batteries with a short circuit.

If after several hours the battery charger does not indicate that the battery is charging, it generally means that one of the elements has a short circuit. The battery should be replaced.

Malfunction

If your battery charger is no longer functioning properly, it may be due to the following reasons:

- The clamp was connected incorrectly. Check if the correct clamp is connected to the correct terminal.
- The safety switch is off.

Battery life

The life of your battery will be considerably longer if you follow these tips:

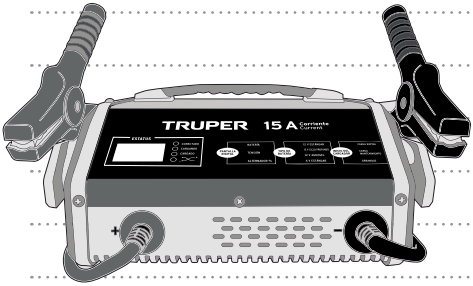
- Check the battery fluid level every month and, if necessary, fill it with distilled water.
- To prevent deposits from forming, regularly clean the terminals of your battery and apply a little petroleum jelly to them.
- The battery discharges if the vehicle is not used often. Therefore, it should be regularly charged to its maximum capacity, which prevents breakdowns.
- If you have checked everything and the battery charger still does not charge properly, take it to a TRUPER Authorized Service Center.

Environment

The device is delivered in a sturdy package made mostly of reusable material to prevent damage during transport. Please explore recycling options for the packaging.

Damaged electronic or electrical appliances should be collected at appropriate recycling sites.

Notes



Authorized Service Centers

TRUPER

In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage WWW.TRUPER.COM to get an updated list, or call our toll-free numbers 800 690-6990 or 800 018-7873 to get information about the nearest Service Center.

AGUASCALIENTES **DE TODO PARA LA CONSTRUCCIÓN**
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TEL.: 613 132 1115

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AV. ÁLVARO OBREGÓN #324, COL. ESPERANZA
C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808

CHIAPAS **FIX FERRETERÍAS**
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CHIHUAHUA **SUCURSAL CHIHUAHUA**
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