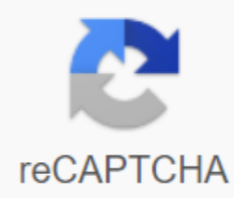




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Schumacher xc6 manual

OWNER'S MANUAL Guide del usuario Models / Modelos: XC6, XC10, XC12 and XCS15 Automatic Charger / Cargador de Batería automático NOT RETURN THIS PRODUCT IN THE WORLD! Call Customer Service: 800-621-5485 NO LO DEVUELVA este producto A LA TIENDA! Llame a Servicios al Cliente para Asistencia: 800-621-5485 READ THE ENTIRE MANUAL BEFORE USING THIS PRODUCT. FAILURE TO DO THIS HARM CAN LEAD TO SERIOUS INJURY OR DEATH. ADVERTENCIA LEA EL GUIDE COMPLETO ANTES DE UTILIZAR ESTE PRODUCTO. CUALQUIER FALLA PODRIA RESULTAR EN SERIAS LES O PODRA SER MORTAL. 0099001037WB-02 IMPORTANT: READ AND SAVE THIS GUIDE TO SAFETY AND TRAINING. SAVE THESE INSTRUCTIONS - This guide will show you how to safely and efficiently use your charger. Please read carefully, understand and follow these instructions and precautions as this guide contains important safety and operation instructions. The security messages used in this guide contain a signal word, message, and an icon. The signal word indicates the level of danger in the situation. Points to a potentially dangerous situation, which, if not avoided, will lead to death or serious injury of the operator or passers-by. Points to a potentially dangerous situation that, if left unavoidable, can result in death or serious injury to the operator or bystanders. Points to a potentially dangerous situation that, if left unavoidable, could cause damage to equipment or vehicle or property damage. Under California 65, this product contains chemicals known in the state of California to cause cancer and birth defects or other reproductive harm. 1.IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS - This guide contains important safety and operation instructions. THE RISK OF ELECTRIC SHOCK OR FIRE. 1.1Skip is out of the reach of children. 1.2 Don't expose the charger to rain or snow. Use only the recommended attachments. Using attachments not recommended or sold by Schumacher® Electric Corporation can lead to the risk of fire, electric shock or injury to people or property damage. 1.3 To reduce the risk of damage to an electrical fork or cord, pull the plug rather than the cord when the charger is turned off. 1.4 The extender should not be used if absolutely necessary. Using improper lengthening can lead to the risk of fire and electric shock. If the extension cord should be used, make sure: That the pins on the extension fork are the same amount, size and shape as the fork Charger. The fact that the extension cord is properly wired and in good electrical condition. That the size of the wire is large enough for the ac ampere charger rating specified in section 8. 1.5 To reduce risk Electric shock, disable the charger from the socket before trying any maintenance or cleaning. Simply disabling the controls will not reduce this risk. 1.6 The charger with a damaged cord or fork does not work; have a cord or plug immediately replaced by a qualified service officer. (Call support at 1-800-621-5485.) 1.7 Do not operate a charger if it has been hit sharply, discarded or otherwise damaged; take it to a qualified service professional. (Call support at 1-800-621-5485.) 1.8 Don't disassemble the charger; Take it to a qualified person service when maintenance or repair is required. Incorrect assembly can lead to the risk of fire or electric shock. (Call support at 1-800-621-5485.) EXPLOSIVE GAS RISK. 1.9 WORKING IN CLOSE PROXIMITY TO A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY LIFE. FOR THIS REASON, IT IS IMPERATIVE THAT YOU FOLLOW THE INSTRUCTIONS EVERY TIME YOU USE THE CHARGER. 1.10 To reduce the risk of battery explosion, follow these instructions and instructions issued by the battery manufacturer and manufacturer of any equipment you are going to use in close proximity to the battery. View cautionary markings on these products and on the engine. 1.11This charger uses parts such as switches and switches that typically produce arcs and sparks. If used in the garage, find this charger 18 inches or more above the floor level. 2. PERSONAL PRECAUTIONS RISK EXPLOSIVE GASES. 2.1NEVER smoke or permit a spark or flame in close proximity to the battery or engine. 2.2Smove personal metal items such as rings, bracelets, necklaces and watches when working with a lead-acid battery. The lead-acid battery can produce a short circuit of the current high enough to weld a ring or similar metal, causing severe burns. 2.3 Be especially careful to reduce the risk of a metal instrument falling on the battery. This can spark or short-circuit the battery or other electrical part that can cause an explosion. 2.4 And it's a charger for charging only LEAD-ACID batteries. It is not designed to supply electricity to a low-voltage electrical system other than in a starter-motor application. Do not use this charger to charge dry batteries, which are commonly used with household appliances. These batteries can burst and cause harm to people and damage property. 2.5NEVER charges a frozen battery. 2.6NEVER to recharge the battery. 2.7Consider with someone enough to come to your rescue when you are working next to a lead-acid battery. 2.8We have plenty of fresh water and soap nearby in case the acid battery contacts your skin, clothing or eyes. 2.9 Clothing provides full protection of the eyes and body, including goggles and protective clothing. Avoid touching your eyes while working next to the battery. 2.10If battery acid comes into contact with your skin or clothing, immediately rinse the area with And water. If the acid enters the eye, immediately flood your eye with cold running water for at least 10 minutes and get medical attention right away. 2.11If the battery acid is accidentally swallowed, drink milk, egg or water proteins. DO NOT vomit. Seek medical attention immediately. 3. PREPARING TO CHARGE THE RISK OF CONTACT WITH AN ACID BATTERY. BATTERY ACID IS A HIGHLY CORROSIVE SULPHURIC ACID. 3.1 If you need to remove the battery from the vehicle to charge it, always remove the grounded terminal first. Make sure all the accessories in the car are off to prevent arcs. 3.2 Make sure the area around the battery is well ventilated while charging the battery. 3.3 Clean the battery terminals before charging the battery. During cleaning, keep the airborne by corrosion from in contact with the eyes, nose and mouth. Use baking soda and water to neutralize the battery's acid and help eliminate corrosion in the air. Do not touch your eyes, nose or mouth. 3.4Add distilled water for each cell until the acid battery reaches the level specified by the battery manufacturer. Don't overcrowd. For a battery without removable cell caps, such as valve-adjustable lead acid batteries (VRLA), follow the manufacturer's recharging instructions carefully. 3.5Read, understand and follow all the instructions for the charger, battery, vehicle and any equipment used next to the battery and charger. Examine all specific battery manufacturer precautions while charging and recommended charge rates. 3.6 Determine the battery voltage by citing the vehicle owner's manual. These chargers are equipped with autoelectronic detection only 6 or 12 volts. 3.7Make is sure that the charger cable clamps make close connections. 4.CHARGER THE RISK OF EXPLOSION AND CONTACT WITH THE ACID BATTERY. 4.1 Place the charger as far away from the battery as THE DC cables allow. 4.2 Depending on whether you place the charger directly above the charging battery; battery gases corrode and damage the charger. 4.3Do do not install the battery on top of the charger. 4.4Onexamd allow the battery's acid to drip onto the charger while reading the electrolyte of specific gravity or filling the battery. 4.5 Do not work with the charger in a closed area and do not limit ventilation in any way. 5.DC CONNECTION PRECAUTIONS 5.1Connect and disable D.C. weekend clips only after all charger switches are installed in a switch position (if applicable) and remove the AC plug from the electrical outlet. Never let clips touch each other. 5.2 Join the clips to the battery and chassis as stated in sections 6 and 7. 6. THESE STEPS WHEN THE BATTERY IS INSTALLED IN THE CAR SPARK NEXT TO THE BATTERY CAN CAUSE THE BATTERY TO EXPLODE. TO REDUCE RISK OF A SPARK NEAR THE BATTERY: 6.1 Position of AC and DC cables to reduce the risk of damage to the hood, door and moving or hot hot Parts. NOTE: If you need to close the hood during the charging process, make sure the hood does not touch the metal part of the battery clips or reduce the insulation of the cables. 6.2Stay away from fan blades, belts, pulleys and other parts that can cause injuries. 6.3 Check the polarity of the battery posts. POSITIVE (POS, P, q) the battery column usually has a larger diameter, then THE NEGATIVE (NEG, N, -) post. 6.4Determine, which battery post is grounded (connected) to the chassis. If the negative pole is grounded on the chassis (as in most vehicles), see step 6.5. If the positive pole is grounded on the chassis, see step 6.6. 6.5 For a car with negative grounding, connect the POSITIVE (RED) clip from the charger to the unearthly positive battery post (POS, P, q). Connect the NEGATIVE (BLACK) clip to the car's chassis or battery pack. Do not connect the clip to a carb, fuel lines or body parts made of sheet metal. Connect to the heavy calibration metal part of the frame or engine block. 6.6 For a positive grounded vehicle, connect the NEGATIVE (BLACK) clip from the charger to the NEGATIVE (NEG, N, -) unreasonable battery post. Connect the POSITIVE (RED) clip to the vehicle's chassis or battery engine unit. Do not connect the clip to a carb, fuel lines or body parts made of sheet metal. Connect to the heavy calibration metal part of the frame or engine block. 6.7 The AC connected charger delivers the cord to the electrical outlet. 6.8 When you turn off the charger, turn off all the switches, unplug the AC cord, remove the clip from the car's chassis, and then remove the clamp from the battery terminal. 6.9See CALCULATING CHARGE TIME for information on the length of the charge. 7. FOLLOW THESE STEPS WHEN THE BATTERY IS OUTSIDE THE VEHICLE SPARK NEXT TO THE BATTERY CAN CAUSE THE BATTERY TO EXPLODE. TO REDUCE RISK OF A SPARK NEAR THE BATTERY: 7.1 Check the polarity of battery posts. POSITIVE (POS, P, q) battery column usually has a larger diameter than the NEGATIVE (NEG, N, -) message. The 7.2Attach is at least a 24-inch (61 cm) long 6-caliber (AWG) insulated battery cable to the NEGATIVE (NEG, N, -) battery. 7.4Position of yourself and the free end of the cable you previously attached to the NEGATIVE (NEG, N, -) battery pole as far away from the battery as possible - then connect the NEGATIVE (BLACK) charger clip to the free end of the cable. 7.5 Do not collide with the battery when making the final connection. 7.6 The AC connected charger delivers the cord to the electrical outlet. 7.7 When you disable the charger, always do it in reverse order of the connection procedure and break the first connection while so far from the battery as practical. The marine (boat) battery must be removed and charged on the shore. Charging on board requires specially designed for marine use. 8.Grounding and AC power cord connections RISK OF ELECTRIC SHOCK OR FIRE. 8.1 It is a charger for use on a nominal 120-volt circuit. The plug must be connected to an outlet that is properly installed and grounded in accordance with all local codes and regulations. The plug pins should correspond to the vessel (exit). 8.2 Never change the AC cord or plug - if it doesn't fit the socket, have a proper grounded exit installed by a qualified electrician. The wrong connection can lead to the risk of electric shock or electric shock. NOTE: Under Canadian regulations, the use of an adapter connector is not permitted in Canada. The use of an adapter connector in the United States is not recommended and should not be used. 8.3The minimum size of AWG for extender: AC input rating, awG cord size amps Cord length, feet (m) B But less than 25 50 100 150 less, (7.6) (15.2) (30.5) (45.6) 0 2 18 18 18 2 18 18 16 14 3 4 18 18 16 14 If the input rating of the charger is given in watts, rather than in amps, the corresponding amp rating should be determined by dividing the power rating into a voltage rating - for example: 1200 W/120 volts and 10 amps 9.Assembly Instructions to remove all cord wraps and unwind cables before using the charger. 10.Control panel NOTE: Not all controls are available on all models. A.C. POWER (red) LED light: Indicates that there is a power conditioner supplied to the charger. CONNECTED (red) LED light: indicates that the charger is properly connected to the battery. CHARGING (yellow) LED light: Points to the charger detected the battery and charges it. CHARGING (yellow) LED flashes: Indicates the charger is in interruption mode. CHARGED (green) LED light: Indicates that the battery is fully charged and the charger is in maintenance mode. NOTE: See the Operating Instructions section to fully describe charger modes. The digital display (models XC12 and XCS15) display will show the VOLTAGE battery when the charger does not charge the battery. When it goes into charging mode, the display automatically switches to ON (to show that the charging has started) and then shows the percentage of battery charge and 6 or 12 (the voltage determined by the charger). If you manually stop the charging process (by pressing the RATE button) before the battery is fully charged, the display will show off. Tension - A digital display shows the voltage on the battery charger clips in the DC Volt, or voltage charger Depending on what mode the charger is in, use this button to set the maximum charge speed. Click on the button until there is a desired charge rate Maintain - Used for storage, lead-acid batteries are charged. It charges and supports small batteries. Supports large batteries. Slow charging speed - Designed to charge small batteries, such as those commonly used in garden tractors, snowmobiles and motorcycles. It is also used to fully charge deep-cycle batteries. Fast Charge Rate - Use to charge car, sea and light truck batteries. NOTE: See the CALCULATING CHARGE TIME section for actual amplifier ratings. NOTE: After the charger started charging the battery; at one time, when you press the Charge Rate button, the output current is turned off. If you press the Charge Rate button again, the current will return in the same setup as when you turn it off. For example: The charger charges the battery at a fast charge rate. When you press the Charge Bet button, the exit is off. If you press the Charge Rate button again, the output will be switched on again when you quickly set up the charge speed. Battery-type button (models XC10, XC12 and XCS15) Use this button to set the type of battery to charge. Regular - Set the button. UGM - Set the button. WATCH - Set the button. 11. Operational Instructions This charger must be properly assembled according to assembly instructions before it is used. Charge 1.Make sure all components of the charger are in place and in good working condition, such as plastic boots on battery clips. 2.Connect the battery after the precautions listed in sections 6 and 7. 3.Connecting AC power after the precautions listed in section 8. 4. Choose appropriate settings for the battery. NOTE: This charger is equipped with an automatic start-up function. It will not supply current for battery clips until the battery is properly connected. This means that the clips don't spark if touched together. Battery Connection Indicator If the charger does not detect properly connected battery, THE CONNECTED LED does not ignite. Charging will not start if the CONNECTED LED is not connected. Automatic charging mode When selecting the charge rate, the charger is set to perform an automatic charge. With automatic charge, the charger automatically switches to maintenance mode (see below) automatically after charging the battery. Interrupted charging Of the XC6 and XC10 models: If charging cannot be completed normally, charging will be interrupted. When charging interruptions, the charger's output is turned off and the CHARGING LED flashes. In this state, the charger ignores all the buttons. To reset after the interrupted charge, disconnect the charger from the AC socket, wait minutes and plug it back in. Interrupted charging Of the XC12 and XCS15: If charging cannot be completed normally, charging will be interrupted. When charging interruptions, the charger's output is turned off and the digital display shows the error code

(see troubleshooting for error codes). In this state, the charger ignores all the buttons. To reset after the interrupted charge, disconnect the charger from the AC socket, wait a few minutes and plug it back in. Deulfate mode can take up to 8 hours. If the desulfation fails, charging is interrupted. See the Interrupted Charging section. Completion of the charging completion is indicated by CHARGED led. When lit, the charger stopped charging and switched to operation mode. Float-Mode Monitoring When the CHARGED LED is lit, the charger has started maintenance mode. In this mode, the charger keeps the battery fully charged, providing a small current when needed. The voltage is maintained at a level determined by the chosen type of battery. NOTE: If the charger is to provide maximum maintenance current for a continuous 12-hour period, it will go into interruption mode (see Interrupted Charging section). It is usually caused by a leak on the battery or the battery can be bad. Make sure there are no loads on the battery. If you remove them. If you don't have them, check or replace the battery. Maintaining battery (2A Charge Rate) Schumacher XC line chargers with maintenance settings that supports both 6 and 12 volt batteries while keeping them fully charged. In this setting, it can charge small batteries and support both small and large batteries. If you support a fully charged large battery, you're using maintenance settings properly. However, if you use maintenance settings to charge a large battery, such as a deep cycle marine battery that wasn't fully charged, you may lose some of the battery capacity. This will cause the large battery to be unable to hold the charge and become useless. That's why we don't recommend charging a large battery on maintenance settings. NOTE: The maintenance technology used in Schumacher chargers allows you to safely charge and maintain a healthy battery for long periods of time. However, battery problems, electrical problems in the car, improper connectivity or other unforeseen conditions can lead to excessive current of draws. Thus, it is sometimes recommended to monitor the battery and charging process. Using a battery voltage tester (models XC12 and XCS15 only) 1. With the charger disconnected from the AC socket, connect the charger to the battery according to the instructions given in sections 6 and 7. 2. Connect the AC power cord to the AC socket by following the instructions in section 8. 3. If necessary, click the BATTERY TYPE button until the right type. 4. Read the voltage on the digital display. Keep in mind that this reading is only a battery voltage readings; false superficial charge can mislead you. Compare reading to the table below. 6 Volt Battery 12 Volt Battery State Voltage Voltage Tension Reading 6.4 or more 12.8 or more Charged 6.1 to 6.3 12.2 to 12.7 Needs charging less than 6.1 Less Than 12.2 Discharge Power-Up idle time limit: If no button is pressed within 10 minutes after the charger is first enabled, the charger will automatically switch from the charger to the charger to the charger, if the battery is connected, if the battery is connected for the first time after the charger is first enabled, the charger will automatically switch from the charger to the charger. In this case, the charger will be installed to charge in maintenance mode and the type of battery of the gel cell. Testing after charging: Once the device has been changed from tester to charger (choosing charge rate), it remains a charger. To change the charger back to the tester, press the CHARGE RATE button until all charge LEDs are turned off. 12. CALCULATING charging time Find your battery rating on the graph below, and pay attention to the charge time given for each device setting. The time given for batteries with 50% charge before recharging. Add more time for heavily discharged batteries. NR means that setting up a charger is NOT RECOMMENDED. Model XC6 BATTERY SIZE/RATING CHARGE RATE/CHARGING TIME 2 AMP 4 AMP 6 AMP SMALL Motorcycle, 6 – 12 Ah 2 - 3 3/4 hrs 1 - 2 hrs 45 min - 1 1/4 hrs Garden BATTERIES 12 – 32 Ah 3 3/4 - 10 hrs 2 - 5 hrs 1 1/4 - 3 1/2 hrs Tractor, etc. 200-315 CCA 40 – 60 RC NR 5 3/4 - 7 1/4 hrs 3 3/4 - 4 3/4 hrs CARS/ 315-550 CCA 60 – 85 RC NR 7 1/4 - 9 1/4 hrs 4 3/4 - 6 hrs TRUCKS 550-1000 CCA 85 – 190 RC NR 9 1/4 - 17 1/2 hrs 6 - 11 1/2 hrs 80 RC NR 8 3/4 hrs 6 hrs MARINE/ DEEP-CYCLE 140 RC NR NR 9 hrs 160 RC NR NR 10 hrs 180 RC NR NR 11 hrs Model XC10 BATTERY SIZE/RATING CHARGE RATE/CHARGING TIME 2 AMP 6 AMP 10 AMP SMALL Motorcycle - 6 - 12 2 - 3 3/4 hours 45 mins - 1 1/4 hours NR Garden BATTERIES 12 - 32 3 3/4 - 10 hours 1 1/4 - 3 1/2 hours NR Tractor, etc. 200-315 CCA 40 - 60 RC NR 3 3/4 - 4 3/4 Hours 2 1/4 - 3 Hours CARS/ 315-1550 CCA 60 - 85 RC NR 4 3/4 - 6 Hours 3 - 3 3/4 Hours TRUCKS 550-1000 8 5 - 85 - 190 RC NR 6 - 11 1/2 hours 3 3/4 - 7 hours 80 RC NR 6 hours 3 1/2 hours MARINE/ DEEP-CYCLE 140 RC NR 9 hours 5 1/2 hours 160 RC NR 10 o'clock 6 hours 180 RC NR 11 hours 6 1 1/2 hours 2 hours schumacher xc6 manual.pdf. schumacher speed charger xc6 manual. schumacher xc6 6/4/2-amp battery charger manual

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