



**FIELDMANN®**  
Home & Garden Performance



FDAN 12001

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# BATTERY CHARGER

## INSTRUCTION MANUAL

**Thank you for your purchase of the battery charger. For your personal safety, read and understand the Instruction Manual before using. Keep the Instruction Manual in a safe place for future reference.**

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# 1. GENERAL SAFETY INSTRUCTIONS



**Please read these safety instructions carefully, remember them and keep them in a safe place**

- ✿ This manual contains important safety and operating instructions
- ✿ When charging, batteries can emit explosive gases, therefore it is essential to use batteries from 6 to 63Ah. Do not use for any other purpose.
- ✿ Always provide good ventilation when charging.
- ✿ Use of an attachment not recommended or sold by the battery charger
- ✿ To reduce risk of damage to electric plug and cord, pull by the plug rather than cord when disconnecting charger.
- ✿ An extension cord should not be used unless absolutely necessary. Use of extension cord must be used, make sure that: a) Pins on plug of extension cord are the same number, size and shape as those of plug on charger; b) Extension cord is properly wired and in good electrical condition; and c) Wire size is large enough for ac ampere rating of charger as specified in "Technical data"
- ✿ Do not operate charger with damaged cord or plug – return the charger to the place where purchased.
- ✿ Never operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way, take it to qualified serviceman
- ✿ Do not disassemble charger, take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.
- ✿ To reduce risk of electric shock, unplug charger from AC outlet before attempting any maintenance or cleaning. Turning off controls will not reduce the risk.

## Personal Precautions

- ✿ Consider have some one close enough by to come to your aid when you work near a lead-acid battery.
- ✿ Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- ✿ Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- ✿ If battery acid contacts skin or clothing, wash immediately with soap and water.
- ✿ If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- ✿ NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- ✿ Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.
- ✿ Remove personal metal items such as rings, bracelets, necklaces, and watches when working with lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
- ✿ Use charger for charging a LEAD-ACID battery only. It is not intended to supply power to a low voltage electrical system other than in a starter-motor application.
- ✿ Do not use battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.
- ✿ Never charge a frozen battery.

## 2. PREPARING TO CHARGER

- ✿ If necessary to remove battery from vehicle to charge, always remove grounded terminal from battery first. Make sure all accessories in the vehicle are off, so as not to cause an arc.
- ✿ Be sure area around battery is well ventilated while battery is being charged.
- ✿ Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
- ✿ Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries, carefully follow manufacturer's recharging instruction.
- ✿ Study all battery manufacturer's specific precautions while charging and recommended rates of charge.
- ✿ Determine voltage of battery by referring to car owner's manual and make sure that the output voltage selector switch is set at correct voltage. If charger has adjustable charge rate, charge battery initially at lowest rate.

## Charger Location

- ✿ Locate charger as far away from battery as dc cables permit.
- ✿ Never place charger directly above battery being charged; gases from battery will corrode and damage charger.
- ✿ Never allow battery acid to drip on charger when reading electrolyte specific gravity or filling battery.
- ✿ Do not operate charger in a closed-in area or restrict ventilation in any way.
- ✿ Do not set a battery on top of charger.

### **FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED IN VEHICLE. A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:**

- ✿ Position AC and DC cords to reduce risk of damage by hood, door or moving engine part.
- ✿ Stay clear of fan blades, belts, pulleys, and other parts that can cause injury persons.
- ✿ Check polarity of battery posts. POSITIVE (POS, P, +) battery post usually has larger diameter than NEGATIVE (NEG, N, -) post.
- ✿ Determine which post of battery is grounded (connected) to the chassis. If negative post is grounded to the chassis . If positive post is grounded to the chassis
- ✿ For Negative-grounded vehicle, connect POSITIVE (RED) clip from battery charger to POSITIVE (POS, P, +) ungrounded post of battery. Connect NEGATIVE (BLACK) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.

## 3.CHARGER CONNECTION

1. Connect positive charger clip (red) to positive battery terminal.
  2. Connect negative charger clip (black) to a good metal engine ground away from the battery. Do no connect clip to fuel lines or sheet-metal body parts.
  3. Connect the AC cord to the socket. The red alarm indication light "EER" will indicate a battery which is connected to reverse polarity..
- ✿ For Positive grounded vehicle, connect NEGATIVE (BLACK) clip from battery charger to NEGATIVE (NEG, N, -) ungrounded post of battery. Connect POSITIVE (RED) clip to vehicle chassis or engine block away from battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gage metal part of the frame or engine block.

## Charger connection.

1. Connect negative charger clip (black) to negative battery terminal.
  2. Connect positive charger clip (red) to a good metal engine ground away from the battery. Do not connect clip to fuel lines or sheet-metal body parts.
  3. Connect the AC cord to the socket. The red alarm indication light "ERR" will indicate a battery which is connected to reverse polarity.
- ✿ When disconnecting charger, turn switches to off, disconnect AC cord, remove clip from vehicle chassis, and then remove clip from battery terminal.
  - ✿ See operating instructions for length of charge information.

## 4. SPECIAL SAFETY INSTRUCTIONS

The FDAN 12001 cannot be used to restore a fully worn out battery. If the FDAN 12001 does not switch to maintenance charge after three days (green light illuminated), there is a fault. Possible causes:

- ✿ The battery is probably worn out and should be replaced.
- ✿ Some large antimony batteries may behave different and can allow the FDAN 12001 to charge the battery for too long, which can lead to overcharging. See caution!
- ✿ If heavy power consumers like fitted alarms and navigation computers are connected to the battery, the charging process takes longer and this can also overcharge the battery.
- ✿ A sulphated battery will only accept current with difficulty, and consequently the charging process takes a particularly long time. A worn out battery cannot be fully charged. Therefore you should always check whether the charger has been switched to maintenance charge before you leave it turned on or unobserved for any length of time.

### WARNING!

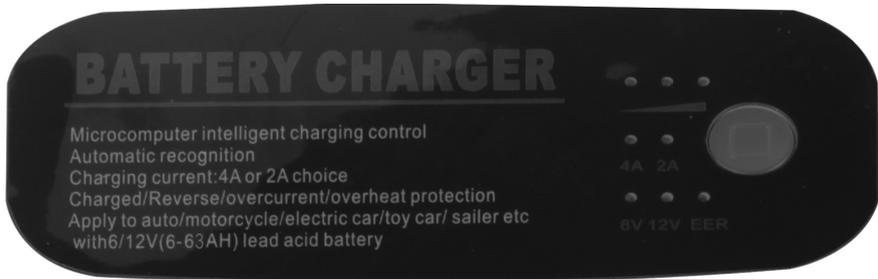
If the FDAN 12001 does not switch to maintenance charge mode after three days, manually switch it to pulse maintenance mode. If the set has been switched to maintenance charge, then everything is in order.

- ✿ **Note:** A battery that hasn't changed to maintenance charge after three days is most likely worn out and needs to be replaced. All other batteries can be maintained for a very long time.
- ✿

## 5. STARTING THE CHARGING PROCESS

- ✿ Set the correct charge mode by pressing the mode button. You can find out how to select the correct charge mode to be used for charging your battery in the section on "SETTING".
- ✿ Once you have established that the battery cable has been correctly connected you can start the charging process. To do so, insert the charger plug into the AC socket.
- ✿ Now either the charge indicator  or The maintenance charge indicator  lights up. When the maintenance charge indicator lights up, the battery is fully charged. If the battery voltage drops, the charger sends a pulse to the battery. The length of the pulse depends on how much charge the battery has lost. The FDAN 12001 may be connected for months at a time. However it is recommended to monitor batteries on charge.
- ✿ If nothing happens: If the indicator for the set voltage is still illuminated, but no other indicator is illuminated, the connection to the battery or the chassis could be faulty, or the battery could be defective. If the charging process has not started, this could be due to the fact that the power socket is not supplying a current.
- ✿ The charging process can be interrupted at any time. In addition pull the plug of the charger out of the power socket or put the charger on Stand-by/Power On . Always remove the plug of the charger from the power socket before disconnecting the battery cable. If you interrupt the charging process of a battery fitted in a vehicle, the battery cable must always be first disconnected from the chassis and then from the other battery cable.
- ✿ If the indicator for charge and maintenance charge are flashing alternately, this may have the following causes:
  1. Interruption of the charging process because a cable has become loose or because the battery is not conducting.
  2. The battery is sulphated. If the indicator flashes for more than 30 minutes the battery may be defective and should be replaced.
  3. If the flashing signal is flashing at intervals of more than 10 seconds, then there is a high self discharge of the battery, indicating a bad battery.

## 6. INDICATORS



	When the first led turns to blue, it means starting charging.
	Charging process, the first led is Off, the second turns blue.
	When the third led turns blue, it means charging completed. Pulse maintenance.
	Press the button, you can choose the "2A" or "4A".
"6V"	It will automatically choose.
"12V"	It will automatically choose.
"EER"	When connected to reverse polarity. The alarm "EER" turns red.

## 7. BULK CHARGING TIME

The table shows the duration of the Bulk step up to about 80% state of charge. The time for the Absorption should be added.

Battery size (Ah)	Mode	Time (h)
2		2-3
8		8-10
14		3-4
50		12-14
63		28-40

# 8. DECLARATION OF CONFORMITY

**Product/Name:** ANGLE GRINDER / FIELDMANN

**Type/Model:** Type/Model: FDAN 12001 ..... 230V / 50Hz

**The product complies with the following directives:**

- ✿ Direction EU of low voltage 73/23 EWG
- ✿ Direction EU of electromagnetic compatibility 89/336/EWG

Norms:

- ✿ EN 60335-2-29/A2:2010
- ✿ EN 60335-1/A15:2011
- ✿ EN 62233:2008

**CE Certification:** ..... 17

FAST ČR, a.s. is authorised to act on behalf of the manufacturer.

## Manufacturer:

FAST ČR, a.s.

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In Prague, 1.06. 2017

Name: Zdeněk Pech

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Signature and stamps:

# 9. TECHNICAL SPECIFICATIONS

Input volt.....	230V~
Frequency.....	50Hz
Output volt.....	6V,12V
Current.....	6-63Ah
Power supply cable length.....	1.8 m

Instructions Manual - language version only.

Amendments to text and technical parameters are reserved.

Changes in the text, design and technical specifications may change without prior notice and we reserve the right to make these changes. keep it from turning as the drill bit rotates.