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EN 9-15 / 55-56

# START UP 80

## SAFETY INSTRUCTIONS

This manual includes guidelines on the operation of your device and the precautions to follow for your own safety. Ensure it is read carefully before first use and keep it handy for future reference. These instructions should be read and understood before anyone operates the product. Any modifications or maintenance that are not specified in the manual should not be undertaken.



The manufacturer is not liable for any injury or damage due to non-compliance with the instruction manual. In case of problems or uncertainties, please consult a qualified person that is able to handle the device correctly. This device should only be used for charging and start-up within the limits indicated on the device and in the manual. The safety instructions must be followed. In case of improper or unsafe use, the manufacturer cannot be held responsible.



Device suitable for indoor use only. Do not expose to rain or excessive moisture.

This device may be used by children from age 8 and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided that they are under supervision or have been told how to use the device safely and are aware of the potential risks. Children must not use the device as a plaything. Cleaning and servicing tasks may not be carried out by children unless they are supervised.

Do not use for charging non-rechargeable batteries.

Do not operate the device with a damaged power supply cord or a damaged mains plug.

Never charge a frozen or damaged battery.

Do not cover the device

Do not place the device near a fire or subject it to heat or to longterm temperatures exceeding 50°C

Do not obstruct the cooling vents. Refer to the installation section before operating the machine.

The automatic mode of operation and usage restrictions are explained below in these operating instructions.

## **Risk of explosion and fire!**



A battery being charged can emit explosive gas.



- During the charge, the battery must be placed in a well ventilated area.
- Avoid flames and sparks. Do not smoke.
- Protect the electrical contacts of the battery against short-circuiting.



## **Acid projection hazard!**



- Wear safety goggles and protective gloves
- If your eyes or skin come into contact with battery acid, rinse the affected part of the body with plenty of water and seek immediate medical assistance.

## **Connection / disconnection:**



- Disconnect the power supply before connecting/disconnecting the device to/from the battery.



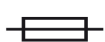
- The terminal of the battery that is not connected to the car frame must be connected first. The other connection must be made on the car frame, far from the battery and the fuel line. The battery charger must be connected to the power supply network.
- After the charging process, disconnect the battery charger from the power supply network and remove the connector from the car frame and then the connector from the battery, in this order.

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### Connection:



- Class II device.



- This machine is fuse-protected.

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### Maintenance:



- If the power supply cable is damaged, it must only be replaced by a cable specified or supplied by the manufacturer or its after-sales service.
- Service should be performed by a qualified person.
- If the internal fuse is blown, it must be replaced by the manufacturer, its after-sales service or an equally qualified person.
- Warning! Always remove the power plug from the wall socket before carrying out any work on the device.
- Regularly take off the cover and remove dust with an air gun. Take the opportunity to have a qualified person check the electrical connections with an insulated tool.



- Under no circumstances should solvents or other aggressive cleaning agents be used.
- Clean the device's surfaces with a soft, dry cloth.

## Réglementation :



- The device complies with European Directive.
- The certificate of compliance is available on our website.



- EAC conformity mark (Eurasian Economic Commission)

## Mise au rebut :



- This product should be disposed of at an appropriate recycling facility. Do not dispose of in domestic waste.



- Product whose manufacturer is involved in the packaging's recycling process by contributing to a global system of sorting, collecting and recycling of households' packaging waste.



- Recyclable product that falls within waste sorting recommendations

### GENERAL DESCRIPTION

The START'UP 80 is designed to charge liquid or gel electrolyte lead-acid batteries, nominal voltage of 12V (6 2V elements), and with a capacity from 45 to 170 Ah. Thanks to its BOOST function and to a 10mn pre-charge, it enables to help starting your vehicle if necessary.

### OPERATING IN TESTER MODE

When it is not connected to the mains supply, this charger is a battery tester. It lets you know the state of the battery. The integrated voltmeter informs you by three LEDs:



. Red: <12.3V: battery to be charged



. Orange: between 12.3 and 12.6V: middle charge



. Green: >12.6V: charged

## CONNECTION IN CHARGER FUNCTION

### Preliminary precautions

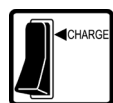
- For indoor use, with good ventilation.
- Remove the battery caps if there are, and check the level of liquid. If it is not correct, filled up with distilled water. Clean well the battery terminals.
- Check if the battery capacity (Ah) and voltage (V) are compatible with your charger.

### Connection and disconnection

- Do not connect to the mains supply at the beginning :



- Connect the clamps (+ red, - black) to + and - battery terminals, making sure you get a good electric contact, respecting the following order.
  - Connect first the battery terminal not connected to the chassis of the vehicle.
  - Then connect the other connection to the chassis remote from the battery and any fuel line.



- Switch on the CHARGE position.



- At last, plug in your charger to 230 V 50Hz mains supply.



- After charging :



- Disconnect the battery charger from mains supply.
- Then remove the chassis connection and the battery connection, in this order.

### Automatic charge

The 3 red, orange and green indicators show the battery charge condition:



- Both red and orange indicators show the charge is in progress.
- At 14,8V; the green indicator shows the end of the charge. The charger automatically stops.

This function enables to let the battery indefinitely in charge, without risk.

If the charger remains in charge more than 24h (red and orange indicators on), stop the charge (see sulfated batteries).

## STARTER MODE USE (BOOST)

### Prior precautions

- Do not disconnect the vehicle battery. The battery disconnecting can result in information loss and in an eventual restarting impossibility.
- The engine must be stopped.

### Connection and disconnection

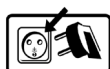
Do not connect to the mains supply at the beginning:



- Connect the clamps (+ red, - black) to + and - battery terminals, making sure you get a good electric contact.



- Switch on the BOOST position.



- Plug in your charger to 230 V 50 Hz mains supply.



- Let in charge for 10 minutes. This pre-charge is necessary to bring the energy for an eventual start.



- By switching on the ignition key, you will activate the STARTER function. This function provides only a part of the energy needed to start the engine.



- If your engine does not start, do again a 10mn pre-charge cycle before any new attempts to start it (wait 10 minutes between each cycle).

Nb : If your engine does not start after several attempts, it is because the battery needs to be fully charged or because there is another breakdown (either mechanical or electrical...)



- After this step,
  - Unplug the battery charger from the mains supply
  - then, remove the clamps.



## PROTECTIONS

Your product has been developed with a maximum of protections:

- The clamps of the battery are isolated.
- In case of polarity inversion, a buzzer sounds.
- Polarity inversion and short circuits are not dangerous. The protection is ensured by an automatic internal circuit breaker, automatically restarting.
- Your machine is protected against over-intensity peaks which can be created by faulty batteries or manipulations.
- Thermal protection: the transformer of the product is protected by a thermal switch (cooling: about ¼ h).
- 

## SULFATED BATTERIES - START

- This START'UP 80 does not detect sulfated batteries.

Your battery is highly damaged:

- If the charger remains in charge (red or orange indicators on) more than 24h
- If in charge mode the Start'Up 80 indicates, after few seconds, that your battery is charged but after using it, it appears that it still does not work.



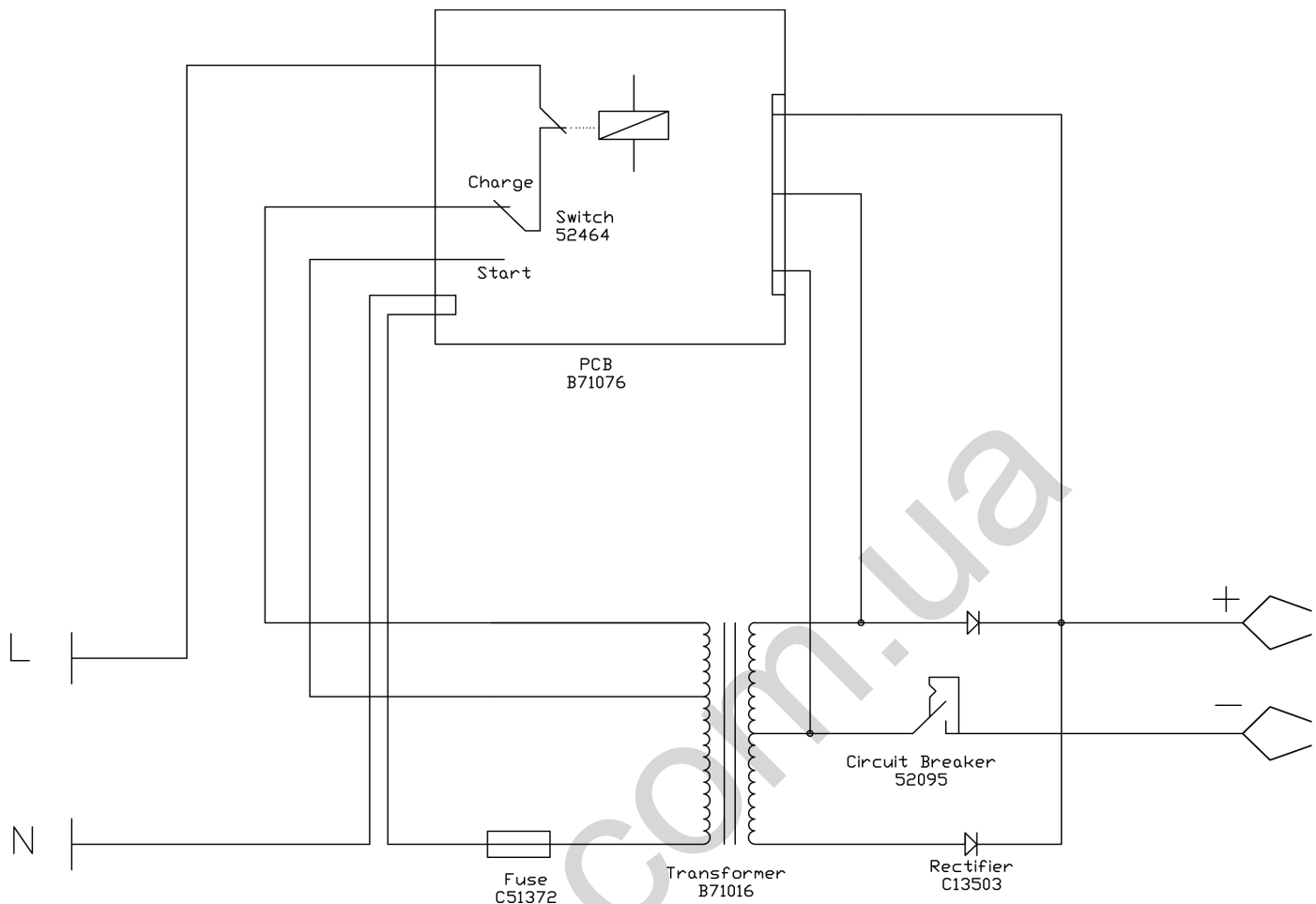
Do not use your charger like an auxiliary power supply. It is forbidden to pull up current from the battery when the battery is connected to the charger.



## TROUBLESHOOTING

Symptoms	Causes	Remedies
None of the indicators that indicate the state of charge are switching on	No mains voltage	Check that the power cord is plugged to a 230V 50/60Hz socket. Check the power supply network.
	Clamps in short circuit or polarity reversal.	Remove the clamps. Check that the fuses have not melted and that the circuit breaker is not tripped
The charger is properly connected but it does not charge the battery	Bad clamp connections.	Clean the terminals and the clamps. Check the state of the cables and clamps.
	Wrong charge settings	Check that the selected voltage matches the battery voltage.
	Following intensive use, your device has entered thermal protection mode.	Wait 1/4h so the device can cool down.
The fuse blows every time it is replaced	Polarity reversal	Connect the + clamp to the battery's (+) and the - clamp to the battery's (-).
	Wrong charge settings	Check that the selected voltage matches the battery voltage.
	Current overconsumption on the battery	Do not draw any of the battery's current during the charge
After charging for a whole day, the end of charge indicator does not switch on.	The battery is damaged	Change the battery.

**SCHÉMA ÉLECTRIQUE / CIRCUIT DIAGRAM / SCHALTPLAN / DIAGRAMA ELECTRICO / ЭЛЕКТРИЧЕСКАЯ СХЕМА / 电路图 / ELEKTRISCHE SCHEMA / SCHEMA ELETTRICO**



**COMPOSANTS / COMPONENTS / KOMPONENTEN / COMPONENTES / КОМПЛЕКТУЮЩИЕ / ONDERDELEN / COMPONENTI / 配件表**

	START UP 80
Cordon d'alimentation / Power supply cable / Netzzuleitung / Cable de alimentación / Шнур питания / Voedingskabel / Cavo di alimentazione / 电源线	C51105
Bouton de sélection de l'allure de charge / Charging speed selection button / Auswahl taste für die Ladegeschwindigkeit / Botón de selección de velocidad de carga / Кнопка выбора скорости зарядки. / Keuzeknop laadsnelheid / Pulsante di selezione del ritmo del carico / 充电速度选择按钮	52464
Transformateur / Transformer / Transformator / Transformador / Трансформатор / Transformator / Trasformatore / 变压器	B71016
Pont du diode / Diode bridge / Gleichrichter / Puente de diodo / Диодный мост / Diode brug / Ponte di diodi / 二极管桥	C13503
Carte de contrôle / Control circuit board / Steuerplatine / Tarjeta de control / Контрольная карта / Controle kaart / Carta di controllo / 控制线路板	B71014
Disjoncteur de sortie / Output circuit breaker / Ausgangsschutzschalter / Disyuntor de salida / Выходной прерыватель / Uitgangsschakelaar / Disgiuntore di uscita / 输出断路器	52095 (16A)
Câbles de sortie / Output cables / Ladekabel / Cables de salida / Выходные кабели / Uitgangskabels / Connettori di uscita / 输出电缆	B71015
Pinces / Clamps / Polklemmen / Pinzas / Зажимы / Klemmen / Bracci / 充电夹	053106 (rouge et noire)

**ICÔNES BATTERIE / BATTERY ICONS / BATTERIE-SYMBOLE / ICONOS BATERÍAS / СИМВОЛЫ АКБ /  
ICONEN ACCU'S / ICONA BATTERIE / 电池图标**

	<p>Produit dont le fabricant participe à la valorisation des emballages en cotisant à un système global de tri, collecte sélective et recyclage des déchets d'emballages ménagers. / Product whose manufacturer is involved in the packaging's recycling process by contributing to a global system of sorting, collecting and recycling of households' packaging waste. / Für die Entsorgung Ihres Gerätes gelten besondere Bestimmungen (Sondermüll). / Producto sobre el cual el fabricante participa mediante una valorización de los embalajes cotizando a un sistema global de separación, recogida selectiva y reciclado de los desechos de embalajes domésticos. / Продукт, производитель которого участвует в переработке упаковки путем отчислений в глобальную систему сортировки, раздельного сбора и переработки отходов упаковки. / Questo materiale è soggetto alla raccolta differenziata. Non deve essere smaltito con i rifiuti domestici. / 产品的制造商通过缴纳一个分拣, 收集和包装废物的全面回收利用的系统, 参与产品包装的回收.</p>
	<p>Produit recyclable qui relève d'une consigne de tri (selon le décret n°2014-1577) / Recyclable product that falls within waste sorting recommendations (according to Decree n° 2014-1577). / Recyclingprodukt, der durch Mülltrennung entsorgt werden muss. (gemäß Dekret n°2014-1577). / Producto reciclable que requiere una separación determinada (según el Decreto n°2014-1577). / Перерабатываемый продукт, подпадаемый под определенные правила сортировки (Декретом № 2014-1577). / Prodotto riciclabile soggetto a raccolta selettiva. / 可回收产品会标有可回收标记.</p>
<b>IP 20</b>	<p>Protégé contre l'accès aux parties dangereuses des corps solides de diam&gt;12,5mm (équivalent doigt de la main). / Protected against fingers access to dangerous parts. / Schutz vor Eindringen von festen Fremdkörpern (Durchmesser &gt;12,5mm = Finger einer Hand). Schutz gegen Berühren mit einem Finger und senkrecht fallendes Tropfwasser. / protegido contra el acceso a partes peligrosas con el dedo, y contra las caídas verticales de gotas de agua. / Защищен против доступа твердых тел диаметром &gt; 12,5 мм (размером с палец руки) в опасные места. Защищен против доступа пальцев в опасные места и против вертикального попадания капель воды. / Beschermtd tegen toegang tot gevaarlijke delen met een vinger en tegen verticaal vallende waterdruppels. / Aree Pericolose protette per impedire il contatto con l'utente, e contro cadute verticali di gocce d'acqua. / 防 手指接触危险部件</p>
<b>&lt; 70dB</b>	<p>Niveau de bruit / Noise level / Störpegel / Nivel de ruido / Уровень шума / Geluidsniveau / Livello di rumore / 需要等级德杂音</p>


**GYS SAS**

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