

DIRECTIONS OF USE

BATTERY CHARGERS MODEL RANGE BBL

READ THESE INSTRUCTIONS BEFORE USING THE CHARGER

Selection switch

ASSEMBLY OF THE BATTERY CLIPS

Battery clip (+) colour red:
Push red clip insulation sleeve over the red (+) lead insulation. Clip the cable onto the battery clip. Push clip insulation further on the clip.

Battery clip (-), colour black:
Push black clip insulation sleeve over the black (-) lead insulation. Clip the cable onto the battery clip. Push clip insulation further on the clip.

CHANGING FUSE

When replacing the blade fuse first disconnect the mains plug. After that unclip the battery clips from the battery poles.

The fuse is situated clearly visible in the front plate.

Remove the defect blade fuse (fuse wire interrupted) and replace with a fuse of the same amperage (20 amp).

To replace the fuse, insert the blade of a screwdriver in the gap between the fuse and the fuse holder. Use the screwdriver as a lever.

DO NOT USE FORCE TO CHANGE THE FUSE!!

GUARANTEE DOES NOT COVER A BLOWN FUSE!

CAR - MOTORCYCLE (12 Volt)

Depending on the model it is possible to have a charger equipped with a selection

switch CAR - MOTORCYCLE.

If the switch is set on Motorcycle the result will be a lowering of the charging current for charging a battery with capacity of 5-15 Ah.

NORMAL - FAST CHARGE

Depending on the model it is possible to have a charger equipped with a selection switch NORMAL-FAST CHARGE.

If the switch is set on NORMAL the result will be charging with a reduced charging current and longer charging time. Normal charge is a special battery saving process.

In the switch setting FAST CHARGE it is possible to recharge weak starting batteries in a short time so far that starting of a car is again possible.

IMPORTANT!!! Precharge deeply discharged batteries with high capacity (Ah) always in switch setting NORMAL for half an hour.

VOLTAGE SELECTION SWITCH

The voltage selection switch 6 volt - 12 volt makes it possible to use the charger for 6 and 12 volt batteries.

Charging voltage and battery voltage have always to be the same value.

Check before the charging

process the battery voltage.

Batteries with 3 cells are 6 volt and batteries with 6 cells are 12 volt.

CHARGING CURRENT INDICATOR

AMMETER

The battery charging rate is shown with a current measure - ammeter.

The charger will give a high charging current when charging commences. The needle will be in the right part of the ammeter. The charging current will become lower when charging progresses. The needle will fall back in the left part of the ammeter scale and it will indicate in that position the end of the charging process. The battery is fully charged.

Depending on the model it is possible to have an electronic charging control indicator.

ELECTRONIC CHARGING CONTROL INDICATOR LA3

The charging indicator is situated in the frontside of the charger. It indicates via coloured LED diodes the stage of the battery charge.

LED RED LIGHTS UP

It means that the charger is connected in the right way to the battery poles (+,-). The charging process can be started by connecting the charger to the mains. The red light remains lit up during the

total charging process.

IMPORTANT: If the red light does not come on when the charger is connected to the battery poles, then check the fuse (see fuse replacement).

LED YELLOW LIGHTS UP

The battery which is connected is charging. During the total charging process the yellow LED remains lit up.

IMPORTANT: If the yellow LED, after connection of the mains plug to the mains, does not light up check plug and mains connection. If the yellow LED goes out during the charging process then this process has been interrupted by the overload protection of the transformer. Disconnect the mains plug (cooling down interval). Watch charging process.

LED GREEN LIGHTS UP

When the charging process is finished, so the battery has been charged, the green LED light lights up. The brightness of this light will go via low slowly to high.

Brightness Weak : Charging process almost over
Brightness Bright : Charging process finished

ELECTRONIC CHARGING CONTROL INDICATOR LA5

The charging process can be watched step by step via 4 colour light diodes (LED).

The LED diodes will be lit up corresponding to the charging condition of the battery.

The charging condition can be seen simply by comparison of lit up light diodes with a graphic charging scale.

LED RED LIGHTS UP

It means that the charger is connected in the right way to the battery poles (+,-). The charging process can be

started by connecting the charger to the mains. The red light remains lit up during the total charging process.

IMPORTANT: If the red light does not come on when the charger is connected to the battery poles, then check the fuse (see fuse replacement).

DIRECTINS OF USE

Decide before connecting the charger, the polarity of the battery (+,-) poles. Watch also the polarity indication on the battery casing.

Check the height of the level of battery electrolyte. (Unscrew filler caps, not possible by sealed batteries). Leave this cape off until charging is completed.

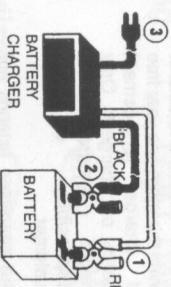
Electrolyte level should be 10mm above the battery plate level. Top up with distilled water only. (Trade name battery water).

IMPORTANT: Electrolyte liquid is corrosive. Avoid contact! During battery charging it is necessary to disconnect all normal connections to the battery.

Watch the sequence.

- 1) Disconnect negative (-) pole
 - 2) Disconnect positive (+) pole
- To avoid unexpected short circuits watch the following connection sequence of the battery clips.

WATCH CONNECTION SEQUENCE



CONNECTION OF THE BATTERY CHARGER TO THE BATTERY POLES

(Take care of the Sequence)

- 1) Connect the red battery clip (+) to the positive battery pole (+).
- 2) Connect the black battery clip (-) to the negative battery pole (-).

Check the connections of the clips to the poles. Are the clips securely fitted to the poles?

- 3) Connect the charger to the mains with the mains cable.

THE CHARGER DOES NOT FINISH THE CHARGING PROCESS AUTOMATICALLY!

IMPORTANT: DISCONNECT EITHER OF THE BATTERY CONNECTION CLIPS BEFORE DISCONNECTING THE CHARGER FROM THE MAINS.

- 4) Disconnect charger from the mains with the mains cable.
- 5) Disconnect the black battery clip (-) from the negative (-) battery pole.
- 6) Disconnect the red battery clip (+) from the positive (+) battery pole.

FUSE

The charger is equipped with two safety fuses.

The charger is protected against overloading by a bimetal safety breaker. Disconnect the mains plug, the safety breaker resets itself automatically.

By contact between the battery clips or by wrong polarity the output circuit will be interrupted by a blade fuse.

Faulty fuses have to be replaced as per instructions for fuse replacement.

PROTECT THE CHARGER AGAINST MOISTURE AND ESPECIALLY AGAINST RAIN

KEEP YOUR BATTERY IN GOOD CONDITION

You can prolong the life of your battery considerably when you take the following advice:

Check every month the electrolytic level of your battery, when necessary top up with distilled water. The charge condition can be checked with an acid syphon.

Prevent poles and connections becoming sulphated. Clean the poles regularly and coat them with petroleum jelly.

When you only drive short distances, especially when you are in your car mainly in town traffic, your battery will come under a heavy strain.

When you use your car very little, the battery will tend to discharge.

You should therefore check the condition of charge of your battery regularly and give it through a long service life.

Regular maintenance increases efficiency.

WARNING:
Do not charge non rechargeable batteries.

When charging a battery do not smoke and avoid open fire.

Electrolite liquide is corrosive. Avoid contact!!!

To assure a fast diversion of the gasses, which develop during the charging process, unscrew without fail the refill tops of the battery and avoid any open fire or spark forming. The gasses are explosive. Some chargers contains parts like switches or relays with which sparks or sparkbridges can occur, so, when the charger is used in a garage put it in a suitable place or space.

BATTERY is always striving for further improvement of their products. In view of this we

reserve the right of changes in technical details.

WIRING INSTRUCTIONS

IMPORTANT:

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

● The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.

● The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **RED**.

● Neither of the wires must be connected to the terminal which is marked with the letter **E** or by the earth symbol or coloured **GREEN** or **GREEN AND YELLOW**.

NOTE:

● **NO EARTHWIRE IS REQUIRED AS THE UNIT IS DOUBLE INSULATED.**

● **ALWAYS ENSURE CORD GRIP IS FULLY TIGHTENED.**

● **PLUG MUST ALWAYS BE FITTED WITH A 5 AMP FUSE.**

GUARANTEE CONDITIONS

1) The guarantee covers all manufacturer of material faults. The manufacturer gives therefore one year free of charge replacement (parts or charger). Only freight charges are responsibility of the customer.

2) The guarantee extends not to necessary repairs as result of an accident, an unprofessional disassembly, damage through fall or

hit, unprofessional use or a higher mains voltage as indicated.

3) Under no condition contains the guarantee the right of compensation or repayment.

THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.

IN CASE OF DAMAGE

Do not write, but send straight away the charger properly packed, per post or carrier to the following address:

See rating plate
ENCLOSE WITH THE PARCEL.

1) The guarantee certificate

2) A short explanation of damage

Do not forget to mention your address, the damage will be corrected in a few days to full satisfaction.

DISPOSE OF DEFECT BATTERIES VIA A GARAGE OR BATTERY STATION

* NO METAL OR PVC PARTS IN THE NORMAL HOME DUSTBIN

* WATCH THE ENVIRONMENT

IN CASE OF DAMAGED SUPPLY CORD, IT MUST BE REPLACED BY THE MANUFACTURER OF THIS APPLIANCE OR BY ANY AUTHORIZED SERVICE DEPARTMENT OR A SIMILAR QUALIFIED PERSON. NOT ANY MANIPULATION MUST BE MADE WITH THIS SUPPLY CORD BY THE USER HIMSELF TO AVOID ELECTRICAL HAZARDS.

Garantieschein Guarantee certificate/Bon de garantie

Type: _____

(laut Typenschild, vom Kunden auszufüllen)
(on model sticker, to fill out by owner)
(à remplir par le client conformément à la plaquette signalétique)

verkauft durch
sold by
vendu par

(Stempel des Verkäufers)
(Rubber stamp of the retailer)
(Cachet du revendeur)

am : dd. : le :

TV BBL

☐ NL Gebruiksaanwijzir

☐ I Istruzioni per l'uso

☐ E Instrucciones

☐ P Instruções

☐ S Bruksanvisning

☐ GR Οδηγίες Χειρισμού για

☐ SF Käyttöohje

☐ RUS инструкция по эксплуатации

☐ N Gebruiksaanwijzing

☐ H Használati utasítás

☐ DK Betjeningsanvisning

☐ CZ Návod k obsluze