



ERSTAUSRÜSTER-QUALITÄT SEIT 1980

GEL MAINTENANCE-FREE  
prefilled and sealed

# OPERATING INSTRUCTIONS

Always check the following before mounting the battery!

## GEL Maintenance-Free, prefilled and sealed

### Dear Customer,

DELO batteries are made exclusively for Louis at one of the most cutting-edge battery manufacturers in the world. The highest quality standards and continuous testing in the works laboratory ensure maximum reliability and cranking power.

To ensure that your new vehicle battery gives you long and reliable service, please carefully read through the operating instructions, and the safety instructions in particular, and make sure you follow all instructions exactly. Failure to do so may cause serious damage to the battery and your vehicle.

We wish you every success and enjoyment with your DELO battery and a sunny motorcycle season.

Yours sincerely,  
The Louis team

### 1. General rules:

Always check the following before installing your battery!

**Correct battery type:** Always ensure that the battery you are installing is the correct type for your vehicle, and is approved for your model by the vehicle manufacturer. You can generally do this by looking in your vehicle handbook or by checking the designation on your old battery (e.g. YTZ10S).

In many cases, modern DELO gel batteries can be used instead of a conventional acid or AGM battery, as they are nothing like as sensitive to high charging voltages as they often were in the past. DELO gel batteries can easily handle charging voltages of up to 14.4 V. Another feature of gel batteries is that they can be installed in any position.

**Charging:** DELO gel batteries are largely pre-charged, so they are often capable of starting a vehicle straight from the packaging. Nevertheless, to ensure good long-term cranking power, we recommend using a suitable automatic charger to make sure that your battery really is fully charged before you install it in your machine. That way you can be certain that it will deliver top starting performance. Never use a car battery charger or any charger that does not automatically switch off when the battery is fully charged. The current delivered by a car battery charger is too high for a motorcycle battery, while a charger without automatic switch-off may overcharge your battery. Both will permanently damage the comparatively small motorcycle battery and greatly reduce its life! The charging current should never be more than 10% of the battery capacity. Ideally you should use a „smart“ automatic charger capable of adjusting the charging current to suit the size and state of the battery. The ProCharger chargers in the Louis range, for example, are perfect for charging DELO gel batteries. Depending on which model you choose, these chargers are also able to coax a deeply discharged battery

back into life. DELO gel batteries have low self-discharge, and therefore do not necessarily have to be kept permanently on trickle charge when not in use on your motorcycle. It is sufficient to top up the charge every eight weeks.

If unused for a prolonged period (more than 2 months), and especially over the winter, the battery must be charged with a suitable charger to prevent it becoming deeply discharged (below 10.5 V), causing damage. Over the winter, you should remove the battery if you are not able to store your motorcycle in a frost-free place. Disconnecting the battery from the electrical system also protects against deep discharge caused by any leakage currents or hidden loads.

**Storage:** Discharged batteries can freeze, so batteries should always be stored fully charged in a frost-free environment.

**2. Commissioning and installation (only if approved by the motorcycle manufacturer):**  
Prior to commissioning the battery, always check the following:

- 1: Does the battery fit your vehicle? Are the dimensions correct (height x width x depth)?
- 2: Are the positive and negative terminals in the right position?
- 3: Does the battery have the right voltage (V = volt)?
- 4: Does the battery have the correct capacity (Ah = ampere-hours)?

The battery is filled with acid by the battery manufacturer and sealed. It must never be opened! Opening the battery will cause irreparable damage! It is not possible or necessary to check or top up the level of fluid in the battery. Before installing the battery, fully charge it to 100% using a suitable charger (see first paragraph about charging). Then firmly secure the battery in the clean battery compartment. Before connecting the battery, remove the yellow sticker from the battery terminal.

Always connect the battery using the terminal screws supplied. It may be advisable to use terminal grease to protect the terminals against corrosion. Prior to connection, clean the cable terminals of the battery cable with a wire brush (corroded terminals can cause the motorcycle's electrical system to malfunction!). Do not use excessive force to tighten the screws, as this may distort the battery terminals and damage the battery.

When connecting the battery, always connect the positive cable first, then the negative cable to their respective terminals. Correspondingly, when removing the battery, always disconnect the negative cable first, then the positive cable.

### 3. Important information concerning your warranty:

Please carefully read the operating instructions, including the safety instructions, and follow them exactly. Failure to do so may cause serious damage to the battery and your vehicle that is not covered by the warranty. Always ensure that the battery you are installing is the correct

type for your vehicle, and is approved for your model by the vehicle manufacturer. Failure to do so may result in damage to the battery and your vehicle that is not covered by the warranty. If the battery is not used for a prolonged period (more than 2 months), it must be regularly fully charged using a suitable charger. Deep discharge and/or a poorly maintained battery will not be covered by the warranty/goodwill and do not constitute grounds for complaint!

### 4. Warning and safety instructions:

- Always follow the instructions on the battery, in these operating instructions and in the vehicle manual!
- Fire, naked flames and smoking are prohibited in the vicinity of the battery! A highly explosive gas mixture is produced when charging the battery!
- Take care to prevent sparking caused by handling cables and electrical devices, or by electrostatic discharges! Do not wear electrically conductive jewellery.
- Exercise caution when working! Take care not to cause short-circuits.
- Explosion and fire hazard: Caution! Metal parts of the batteries are always live; for this reason never place foreign objects or tools on the battery!



Read the instructions



Fire, naked flames and smoking prohibited



Wear protective goggles



Keep away from children



Battery acid!



Explosive gas

If you have any questions about these instructions or the use of the product, please contact the Louis technical support team before assembling or using the product. You can do this via e-mail: technikcenter@louis.de or by fax: 00 49 (0) 40-73 41 93 58. We will be pleased to provide prompt assistance. This is the best way to ensure that your product is assembled properly and used correctly.