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## YOU CAN FIND IMPORTANT CONTACTS HERE.

### For waste portable batteries

Get in touch with your MAN service outlet contact for specific information on the return and disposal of waste portable batteries.

### For starter and traction batteries

Your MAN service outlet contact will also inform you about the return and disposal of starter and traction batteries.

### Free-of-charge battery return

With free-of-charge battery return, the manufacturer assumes the following costs:

- The separate collection of waste batteries, including transport and conditioning, taking into account potential revenue from reuse, repurposing or the value of recovered secondary raw materials
- The investigation of household waste to determine the proportion of incorrectly discarded old batteries
- The transfer of important information to all involved parties on what to avoid and how to handle waste batteries
- The collection and forwarding of all necessary data to the responsible authorities



## HANDLING BATTERIES SAFELY.

Batteries can be used safely if the manufacturer's recommendations are respected. Bear the following instructions in mind:

- Do not perform any repair or maintenance work on batteries. Do not open or alter the battery.
- Avoid touching the terminals with your hands, tools, jewellery or other conductive objects.
- Do not expose batteries to high temperatures or liquids; this could result in short circuits, electric shocks, burns or explosions.
- Always store batteries in a cool, dry place.
- Only use charging devices that are approved by the manufacturer to prevent overcharging or excessive charging voltages.
- Regularly check batteries for potential damage if they are accessible.
- Take immediate action if you notice smoke, heat, odours or unusual sounds coming from portable batteries, as well as any deformation: disconnect the battery from the device if it is safe to do so, call the fire brigade, store the battery safely (e.g. in a fireproof container or away from flammable materials) and keep your distance.
- Action is also required for vehicle batteries: should you notice smoke, heat, odours or noises, or if the red warning light on the display is lit, park the vehicle immediately in a safe location, switch off the engine, exit the vehicle, and contact roadside assistance or the fire brigade. Remain at a safe distance and under no circumstances attempt to intervene yourself.
- Dispose of defective batteries immediately and properly.
- Leave the handling of larger lithium batteries exclusively to authorised, trained specialists, while adhering strictly to the operating instructions and safety data sheet.

## THE IMPACT OF BATTERIES ON PEOPLE AND THE ENVIRONMENT.

Batteries contain toxic chemicals and metals that can contaminate water and ecosystems. When subjected to mechanical, thermal or electrical stress – due to impacts, heat, cold, improper charging or short circuits, for example – damage can occur, with the following consequences:

- Discharge of corrosive liquids that can provoke skin irritation, burns or chemical burns
- Increased risk of fire due to leaking flammable electrolytes
- The release of toxic substances or combustion products in the event of a fire
- Reactions with other materials that release flammable or toxic gases

## ACTING CORRECTLY IN AN EMERGENCY.

### Spilled liquids

- Avoid touching the liquid.
- Protect your skin and absorb the liquid with a dry, absorbent cloth or materials such as sand, vermiculite, sawdust or special binding agents.
- Dispose of the collected material separately from other waste – in accordance with national regulations and the manufacturer's recommendations.
- Prevent the liquid from entering the soil or water.

### Fire, smoke, heat or hazardous battery condition

- Call the fire brigade immediately on **112**.
- Leave the hazardous area and warn others.
- For lead acid batteries, use dry chemicals, a water spray jet or foam.
- For lithium batteries, use dry chemicals, CO<sub>2</sub>, a water spray jet or foam.
- Under no circumstances should you use a full jet of water.

## ACCIDENT FIRST AID.

- If battery electrolyte or acid comes into contact with the eyes: immediately rinse thoroughly with water for at least 15 minutes and seek prompt medical attention.
- In the event of skin contact: thoroughly clean the affected area with plenty of water and soap.

## YOUR BATTERIES. OUR RETURN SOLUTION.

Driving the future.  
Acting sustainably.



# WASTE BATTERIES: RETURNS MADE EASY.

With MAN, you can make your fleet efficient, sustainable – and responsible: from purchasing modern vehicles to optimised fuel economy when driving to returning waste batteries.

The new battery regulation came into force EU-wide on 18.02.2024. It mandates the environmentally sound disposal of all types of batteries.

**Good to know**  
As a manufacturer and distributor of vehicles with batteries, we assume responsibility – and take back your waste batteries free of charge, including collection, transport and conditioning.

In this flyer, we provide more information on safe battery handling and our free-of-charge return solution.

# USING AND DISPOSING OF BATTERIES CORRECTLY.

**Waste prevention – why it’s important!**  
End consumers who rely on proven practices and make consistent use of all recycling and reuse opportunities make a crucial contribution to waste reduction. By acting sustainably, the service life of batteries is extended, the need for new products is reduced and, at the same time, the environmental impact is minimised.

**Using and maintaining batteries correctly**  
Adhering to the recommended usage guidelines ensures that batteries have the longest possible lifespan. Avoid extreme temperatures and moisture, store batteries in a cool, dry place, and clean the contacts regularly. You can find out how to use and maintain your traction and starter batteries correctly in your vehicle’s user manual.

**Optimising the charging process**  
Proper charging practices significantly extend battery life. Follow the manufacturer’s instructions regarding charging times and methods. Avoid overcharging as this can reduce battery capacity. Use a suitable charging device and avoid interruptions to the charging process to maintain performance and extend the battery life. Additional information on charging traction and starter batteries can be found in your vehicle’s user manual.


**Options for continued use**  
Use batteries for as long as possible, for example in other applications. Rechargeable batteries from unused devices can often be reused in other compatible devices. If you would like to know how you can repurpose your traction or starter battery, get in touch with your MAN service outlet contact.

**Disposal and recycling – done correctly!**  
Because they contain harmful substances, disposing of waste batteries improperly poses a threat to the environment and the health of others. At the same time, batteries – whether rechargeable or not – contain valuable raw materials that can be recovered through recycling.

End consumers are legally obliged to dispose of waste batteries separately from residual waste. Use designated collection points or return programmes for safe, free-of-charge disposal. In this way, you can contribute to responsible disposal and support the recovery of important raw materials.

Also batteries that can be easily removed from devices must be disposed of separately. As a distributor of products containing batteries, we are required to take back waste batteries.

# SYMBOLS ON BATTERIES CLEARLY EXPLAINED.


 This symbol indicates that batteries should not be disposed of with household waste. They should be taken to special collection points. If batteries are disposed of with household waste, they end up in landfills and release toxic substances that contaminate the soil and groundwater.


**Cd  
Pb**  
The Cd symbol indicates that a battery contains more than 0.002 % cadmium. The Pb symbol means that the lead content is higher than 0.004 %. In both cases, the batteries exceed the specified limits. These symbols are often found below the crossed-out waste bin symbol.


# LABELS AND SYMBOLS ON PACKAGING.

**For small batteries**  
Lithium batteries – transport labels with UN numbers.

 Lithium-ion batteries (including lithium-ion polymer batteries)


 Lithium-ion batteries contained in equipment or packed with equipment (including lithium-ion polymer batteries)


 Lithium metal batteries (including lithium alloy batteries)


 Lithium metal batteries contained in equipment or packed with equipment (including lithium alloy batteries)


- Other batteries: UN numbers**
- **UN 2794** – lead acid batteries
  - **UN 2795** – nickel–cadmium batteries
  - **UN 3496** – nickel–metal hydride batteries



**For large batteries**  
(especially lithium > 100 Wh):  
Dangerous goods label 9A with UN number\*

 Lithium-ion batteries (including lithium-ion polymer batteries)

 Lithium-ion batteries contained in equipment or packed with equipment (including lithium-ion polymer batteries)

 Lithium metal batteries (including lithium alloy batteries)

 Lithium metal batteries contained in equipment or packed with equipment (including lithium alloy batteries)

- Additional special labels for lithium batteries**
-  For lithium batteries that are meant to be recycled
  -  For damaged/defective lithium batteries

\*The UN number can also be a separate label.

