

## MZ - MZ\_CHARLEY\_Manual\_de\_intretinere

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Charly makes short trips short! The Charly electric scooter gets you to your destination faster on short distances! And without a helmet or special protective clothing. Whether on the street, in leisure facilities, at trade fairs or airports, on company premises or in the office - with Charly you are mobile.

Thanks to its electric drive, Charly is quiet, clean and odorless. So you and the environment have fun. Handy and small, Charly fits in every corner and can be transported easily when folded.

In short: Charly is the contemporary and environmentally friendly means of transport for short distances. Operating instructions for MZ Electric Scooter Charly - Miraculis <http://www.mz-b.de/miraculis/aw/mz/text/charlyb/charlyb.html>  
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To ensure that it stays that way, we ask you to observe the following instructions for handling and care.

Putting the vehicle into operation and operating it requires that you read these operating instructions carefully, follow the instructions given here for proper use, have any valid legal authorization required for the country of use to operate this vehicle and know and observe the conditions under which the vehicle may be used.

The vehicle must remain in the technical condition handed over by the manufacturer. The manufacturer assumes no liability for damage caused by failure to observe the instructions and regulations, by the installation of non-original spare parts and accessories or by improper repair work. We wish you a 'Good Ride'! MuZ Motorrad- und Zweiradwerk GmbH Postfach 70; 09401 Zschopau Alte Marienberger Straße 30 - 35 09405 Zschopau/Hohndorf Tel.: 03725/49-0 Fax: 03725/49950 Table of Contents

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##### 1. Operation

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Charly comes with three keys. The larger one is used to operate the main switch on the handlebars. You need the smaller keys to open and close the cover for the cable and accessories compartment and for the anti-theft device. Operating instructions for MZ Electric Scooter Charly - Miraculis  
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#### Image 1 Charly

##### 1. Headlight

##### 2. Luggage hook

3. Front tension cam

4. Anti-theft device

5. Side stand

6. Luggage rack with tension straps Operating instructions for MZ Electric Scooter Charly - Miraculis  
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Image 2 Controls

1. Brake lever front wheel brake

2. Twist grip for speed control

3. Main switch

4. Speedometer

5. Battery control

6. Brake lever rear wheel brake

7. Horn button

8. Light switch

Driving Unlock the anti-theft device on the front fairing. Turn on the main switch (turn the key to the right). Fold in the side stand and turn the twist grip on the handlebar end - Charly drives, and the faster the further the twist grip is opened.

Slowing Down Operating instructions for MZ Electric Scooter Charly - Miraculis  
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Close the throttle, apply both brakes: right brake lever for front wheel brake, left brake lever for rear wheel brake.

A freewheel built into the drive system enables comfortable coasting.

Attention! The brakes slow the vehicle down very sharply. So always brake sensitively and never only use the front wheel brake - a fall can be the result. Driving with lights Headlights and taillights are switched on with the rocker switch on the left of the handlebar fairing when the main switch is switched on. The light comes on after a short delay after switching it on.

Warning signal The horn button is also located on the left of the handlebar fairing. The horn works when the main switch is switched on.

Speedometer The speedometer offers you the opportunity to check the time, speed and distance traveled. Please refer to the accompanying operating instructions for this device for the necessary setting steps.

Already set during the assembly of the Charly, but useful to know: The wheel circumference is 078 (0.78 m).

Possible range The electric scooter has a range of 20 km at about 18 km/h on a level road. If you often drive uphill or with lights - a maximum of 15%

is possible depending on the load with the driver and luggage - the range and climbing ability are reduced.

The battery control on the handlebar fairing shows the amount of energy currently available in the battery. The light bar of this

display moves to the left as the batteries discharge.

Light bar all the way to the right Batteries full Second to last bar flashes Attention! Charge batteries Second to last and last bar flash alternately Stop! Charge batteries. Continuing to drive significantly reduces the battery life and voids the warranty claims on Operating instructions for MZ Electric Scooter Charly - Miraculis  
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the battery pack

2. Maintenance and Care

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Apart from occasional cleaning with commercially available paint care products, there is not much to do.

Be careful when using water, do not use a steam or water jet. It should remain dry under the fairing.

After one year, the vehicle should be checked by the dealer for its condition. All accessible screw connections, the steering bearings and the brakes must be checked for tightness and functionality. The dealer will rectify any defects found.

The tension of the toothed belt should be checked and retensioned after every 500 km or so. If this is not done, there may be

rattling noises from the drive area when accelerating.

### 2.1. Tire pressure

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Check the specified 300 kPa (3 bar) from time to time. Inflate tires: Directly possible on the front wheel. On the rear wheel, attach the valve extension located in the cable compartment to the valve, inflate, unscrew the valve extension and store it back

in the cable compartment! Operating instructions for MZ Electric Scooter Charly - Miraculis  
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### 2.2. Battery Care

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The batteries contain no liquid acid, are closed on all sides, maintenance-free and achieve a very high number of charging cycles (approx. 300). Their

aging is noticeable by a reduction in range. They can be charged on the 220 V mains or on the vehicle electrical system of your motor vehicle. The charging cables with the respective plugs (1.6 m extended length) are housed in the cable compartment on the body and secured by a lock in the lid. When removing the cover, pull it diagonally forward and upwards so that the rear retaining tabs do not break.

Either a grounded socket is required or a vehicle socket in the motor vehicle (remove the red ring from the plug of the charging cable after a short turn) or the cigarette lighter. Charging in the motor vehicle should preferably take place while driving, otherwise

its battery may be discharged! Charging voltage

220 V AC voltage

12 and 24 V DC voltage Charging time

Approx. 10 hours depending on the state of charge of the batteries.

Please note: The battery control remains unchanged until the end of charging and only then jumps to 'Full'.

The following principles should be observed:

Never leave the scooter with discharged batteries, as this will destroy the batteries, for which no guarantee is given.

Charge the batteries daily after driving and perform a maintenance charge once a week for about 15 hours.

### 2.3. Decommissioning

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If the vehicle is not used for a longer period of time, from about one week, remove the fuses in the cable compartment or, if possible, leave the charger

plugged in permanently for trickle charging. The charger is designed for continuous charging for this purpose.

Attention! The battery control always shows 'Full' after reinserting the fuses, even if the battery does not have this state of charge.

Therefore, always carry out a full charge for 15 hours after initial or restart.

Image 3 Information sign in the cable compartment 3. Transporting the Charly

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Charly can be folded for transport. Loosen the seat attachment (cam), fold the seat onto the body, loosen the handlebar attachment (cam). Fold the handlebars back and engage the locking bracket, tighten the front and rear tension cams. Attention! Transport only with the main switch switched off. Charly can be transported in any position.

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Image 4 Charly folded

1. Handlebar attachment
2. Seat attachment
3. Locking bracket
4. Cable compartment for accessories and charging cables

Image 5 Engage locking bracket (circle) Operating instructions for MZ Electric Scooter Charly - Miraculis

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