

## Foreword

This maintenance protocol serves as a guideline for carrying out maintenance on the unit yourself or having it carried out by a workshop. Self-performed maintenance is no substitute for a full inspection by R & E Stricker Reha-Entwicklungen GmbH. Nevertheless, regular maintenance is recommended, as this can ensure that the unit is in perfect condition.

If you notice problems during maintenance which you cannot rectify yourself, we strongly advise you to have a repair carried out by specialists, for example by a workshop, your specialist dealer or via the manufacturer R & E Stricker Reha-Entwicklungen GmbH.

If material fatigue, unacceptable wear or damage is evident, the affected parts must be repaired or replaced entirely before being used again. Commissioning of a defective unit is strictly discouraged.

For documentation purposes, we recommend that the owner of the unit keeps these documents in a safe place.

## Maintenance interval

We recommend detailed maintenance at least every 2,000 kilometres or every 2 years. For maintenance, please refer to the appropriate manual for the adaptive equipment to be serviced. Wear parts that are subject to high stress, such as brake linings and jackets, should be checked before every journey.

## Implementation of measures and availability of spare parts

Classical bicycle wear parts such as the tyre, inner tube, rim, bearings, brake pads, brake cables, gear shift components and chain can be replaced or repaired with the necessary knowledge, either by yourself or by rehab or bicycle workshops. Defective batteries can also be replaced but not repaired. Dispose of defective batteries immediately and properly. Classic bicycle wear parts can be purchased from rehab and bicycle workshops or bicycle dealers as well as from the manufacturer.

Non-classical wear parts or manufacturer-specific parts such as controls, frames, clamps or other parts are replaced or repaired solely by the manufacturer R & E Stricker Reha-Entwicklungen GmbH or on its behalf. Manufacturer-specific parts can be reordered from the manufacturer by sending an e-mail to [info@stricker-handbikes.de](mailto:info@stricker-handbikes.de).

## Servicepartner

Professional maintenance or inspection can also be carried out by specialists such as bicycle repair shops.

However, a full inspection can only be carried out by the manufacturer R & E Stricker Reha-Entwicklungen GmbH. Service partners in Germany can be identified by request by e-mail or via the website. Service partners abroad are available in the form of external sales offices. These can also be identified on the website.

## Exchange within the scope of the warranty

If defective parts have to be exchanged or repaired that are subject to warranty, the manufacturer must be informed before the exchange. You will then receive further information about the warranty and the procedure.

You may be asked to send the defective parts to the manufacturer. Therefore, keep all affected parts carefully. You will receive the necessary information on shipping from the customer service.

For more information on the warranty, please refer to the manual of the respective product. A digital version of the manuals can be found on our website.

## Required tools

In the course of maintenance, the following tools may be required:

| Subject of the test   | Tools and other items  |
|---|--|
| <b>General</b>  |  |
| All models  | Phillips as well as slotted screwdriver<br>2 x weatherproof cable ties |
| All models with chain drive   | Grease   |
| <b>Frame</b>  |  |
| All models  | 4 mm and 6 mm Allen key, 13 mm open-end wrench                         |
| <b>Brakes</b>   |  |
| All models  | 5 mm Allen   |
| All handbikes with coaster equipment with automatic on-switch                           | 16 mm open-end wrench  |
| <b>Circuit</b>  |  |
| All models with rear derailleur   | 10 mm open-end wrench  |
| <b>Impeller</b>   |  |
| Lipo Lomo, Lipo Lomo Micro, Lipo Lomo Pico, Lipo Smart Para, Lipo Smart Tetra, Lomo 360 | 21 mm open-end wrench  |
| Smart Dynamic, Smart Wild, Crossbike  | 21 mm open-end wrench  |
| Crossbike with "Suring" engine  | 21 mm and 24 mm open-end wrench  |
| City model series, Sport, Ultra   | 15 mm open-end wrench  |

## Maintenance information:

| Data about the device owner                   |   | Data on the inspector<br>(empty if the same as the owner) |  |
|---|---|---|--|
| Name, first name                              |   | Name, first name  |  |
| Street, No.                                   |   | Street, No.   |  |
| Zip code, city                                |   | Zip code, city  |  |
| Phone   |   | Phone   |  |
| Mobile  |   | Mobile  |  |
| E-mail  |   | Company   |  |
| Device data                                   |   |   |  |
| Model series                                  |   |   |  |
| Designation                                   |   |   |  |
| Year of manufacture                           |   |   |  |
| Serial number                                 |   |   |  |
| Odometer reading (ODT)                        |   |   |  |
| Condition of the device<br>Before maintenance |   |   |  |
| Maintenance performed                         | <input type="checkbox"/> by laymen   <input type="checkbox"/> by specialist | Date  |  |
| Supplementary data                            |   |   |  |
|   |   |   |  |

## General

test

| Subject of the test  | State: | Ok                       | Defect                   |
|--|--------|--------------------------|--------------------------|
| <b>Brakes</b>  |        |                          |                          |
| - Check for smooth running   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check Bowden cables/hydraulics and relief springs  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check coaster brake and its automatic engagement   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check grip shift sleeves   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check brake pads and brake settings  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - If present, check brake pin of back-pedal equipment with automatic on-switch for wear            |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Clamps</b>  |        |                          |                          |
| - Check terminals<br><i>Check for cracks and deformations</i>                                      |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check thread   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check clamping clearance on longitudinal tube  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check screw and nut on ball handle / star handle   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check plastic caps   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check taper disk   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Automatic grid (clamps)</b>   |        |                          |                          |
| - Check for function   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Grease mechanism   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check nut on eye bolt<br><i>Must be locked and tight</i>   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the tongue of the automatic raster<br><i>Bend into correct position/shape if necessary</i> |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Shift</b>   |        |                          |                          |
| - Check for smooth running   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check setting  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check handle slat sleeves  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check bowden cable / shift cable and relief springs  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the rear derailleur and settings of the gearshift  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Antrieb</b>   |        |                          |                          |
| - Check chain/timing belt and shift through all sprockets  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Adjust and lubricate chain   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check chain guard tube<br><i>Must be fixed, must not be brittle</i>                              |        | <input type="checkbox"/> | <input type="checkbox"/> |

|  |                          |                          |
|--|--------------------------|--------------------------|
| - Check the tension of the toothed belt  | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Impeller</b>  |                          |                          |
| - Check mantle and mudguard for cracks and wear  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check air pressure   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check rim for lateral runout   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check screws and retighten or replace if necessary   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Steering damper</b>   |                          |                          |
| - Check track<br><i>The adaptive device must drive straight ahead</i>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the condition of the damper rubbers<br><i>The material must not be brittle. The rubbers must be be tightened with two cable ties</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Other</b>   |                          |                          |
| - Check fastenings of all cables, pipes and Bowden cables<br><i>They must not hang loosely around and must be tightly lashed to the frame with cable ties</i>                              | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check cable for loose contact and clean contacts<br><i>The electronic contacts must remain clean and corrosion-free</i>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the connections of the bolts and nuts<br><i>Tighten loose parts and replace if necessary if not intact</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Grease planetary gear (mountain reduction)   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check the function of the bell<br><i>Must be smooth running and ring loudly</i>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check speedometer and speedometer solenoid<br><i>Magnet must be correctly attached so that it is recognized at the sensor, Time and wheel circumference must be correct</i>              | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check handles, levers and knobs<br><i>Must hold firmly to the handlebar, material must not be brittle</i>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check frame<br><i>Check for cracks and deformations</i>  | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check lighting<br><i>Lights and reflectors must function and be correctly attached</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check electrical displays<br><i>Displays and bike computers must be visible and correctly adjusted</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check existing batteries with battery test sheet<br><i>Batteries, cables and holders must not be damaged, existing batteries must be tested individually with the battery test sheet</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check all screw connections on the device and tighten them to the recommended torque   | <input type="checkbox"/> | <input type="checkbox"/> |

## Tests depending on the model series

Non-listed model series are processed solely with the general test.

| Subject of the test  | State: | Ok                       | Defect                   |
|--|--------|--------------------------|--------------------------|
| <b>Lipo Lomo</b>   |        |                          |                          |
| - Check keys and rotary throttle for function and ease of movement |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check starting aid and potentiometer                             |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check fuse on battery  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean and check electrical contacts and plug connections         |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Crossbike</b>   |        |                          |                          |
| - Check keys and rotary throttle for function and ease of movement |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check brake disconnecter   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check signals (lamp, horn)                                       |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean and check electrical contacts and plug connections         |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check display settings   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Lipo Smart</b>  |        |                          |                          |
| - Check keys and thumb throttle for function and ease of movement  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check distance between sensor disk and sensor                    |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean and check electrical contacts and plug connections         |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check cable for strain relief                                    |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check key switch   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Smart Wild and Smart Dynamic</b>                                |        |                          |                          |
| - Check keys and thumb throttle for function and ease of movement  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check starting aid   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check brake disconnecter   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check cable for strain relief                                    |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean and check electrical contacts and plug connections         |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check display for function and settings                          |        | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Neodrives</b>   |        |                          |                          |
| - Check keys and thumb throttle for function and ease of movement  |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean and check electrical contacts and plug connections         |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Check torque arm   |        | <input type="checkbox"/> | <input type="checkbox"/> |
| - Clean MMI and battery and treat with contact spray               |        | <input type="checkbox"/> | <input type="checkbox"/> |

## Maintenance report

Please note all information on maintenance and testing. The note on replaced or repaired parts is particularly important. If you have the maintenance carried out by a specialist workshop, the company stamp and the signature of the inspector can also be entered.

The report is generated at the end of the maintenance.

| Report   |  |
|--|--|
| <b>Condition of the device (leader, handbike or traction device) after maintenance</b> | <input type="checkbox"/> The device is fully functional, <b>safe commissioning is possible</b><br><input type="checkbox"/> The condition of the device is not faultless, however <b>a safe commissioning is nevertheless possible</b><br><input type="checkbox"/> The condition of the device is not faultless, however <b>a commissioning is not possible</b> |
| Supplementary information  |  |
|  |  |

### Battery test sheets for lithium-ion batteries

Lithium-containing batteries are safe when handled correctly. Lithium-containing batteries can cause serious fires if used and stored improperly.

Do not use defective, damaged, deformed or inflated rechargeable batteries. Rechargeable batteries must never be disposed of in household waste. Dispose of rechargeable batteries properly at your municipal collection point. If the rechargeable battery is defective and may therefore pose a risk, inform the local collection point beforehand and ask them to provide you with further information.

| Battery test sheet for a lithium-ion battery (Per battery, one test sheet)  |   |                        |  |
|---|---|------------------------|--|
| Please do not open the battery. Defective batteries are life-threatening and must be disposed of immediately and properly. Keep the contacts clean or clean them. |   |                        |  |
| Checked by  |   | at                     |  |
| Serial number   |   | Battery capacity in Ah |  |
| Does the on/off switch work   | <input type="checkbox"/> Yes   <input type="checkbox"/> No  | Does the display work  | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Number of lamps switched on   |   | State of charge in %   |  |
| If the color of the light changes after plugging in the charger   |   |                        | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Condition of the device after maintenance   | <input type="checkbox"/> The device is fully functional, safe commissioning is possible<br><input type="checkbox"/> The condition of the device is not faultless, a commissioning is not possible (disposal necessary!) |                        |  |

| Battery test sheet for a lithium-ion battery (Per battery, one test sheet)  |   |                        |  |
|---|---|------------------------|--|
| Please do not open the battery. Defective batteries are life-threatening and must be disposed of immediately and properly. Keep the contacts clean or clean them. |   |                        |  |
| Checked by  |   | at                     |  |
| Serial number   |   | Battery capacity in Ah |  |
| Does the on/off switch work   | <input type="checkbox"/> Yes   <input type="checkbox"/> No  | Does the display work  | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Number of lamps switched on   |   | State of charge in %   |  |
| If the color of the light changes after plugging in the charger   |   |                        | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Condition of the device after maintenance   | <input type="checkbox"/> The device is fully functional, safe commissioning is possible<br><input type="checkbox"/> The condition of the device is not faultless, a commissioning is not possible (disposal necessary!) |                        |  |

### Battery test sheets for lead-gel batteries

Do not use defective, damaged, deformed or inflated rechargeable batteries. Rechargeable batteries must never be disposed of in household waste. Dispose of rechargeable batteries properly at your municipal collection point.

| Battery test sheet for a lead-gel battery (Per battery, one test sheet)  |  |   |  |
|--|--|---|--|
| Please do not open the battery. Defective batteries are dangerous and must be disposed of properly. Keep the contacts clean or clean them. |  |   |  |
| Checked by   |  | at  |  |
| Serial number  |  | Battery capacity in Ah  |  |
| Fuse tested  | <input type="checkbox"/> Yes   <input type="checkbox"/> No   | Spare fuse available  | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Type of connector  | <input type="checkbox"/> Procar connector   <input type="checkbox"/> Neutrik connector   |   |  |
| Checking the cables for oxidation and contacting   |  | <input type="checkbox"/> Checked   <input type="checkbox"/> Checked and cleaned |  |
| Condition of the device after maintenance  | <input type="checkbox"/> The device is fully functional, safe commissioning is possible<br><input type="checkbox"/> The condition of the device is not perfect, commissioning is not possible Disposal necessary!) |   |  |

| Battery test sheet for a lead-gel battery (Per battery, one test sheet)  |  |   |  |
|--|--|---|--|
| Please do not open the battery. Defective batteries are dangerous and must be disposed of properly. Keep the contacts clean or clean them. |  |   |  |
| Checked by   |  | at  |  |
| Serial number  |  | Battery capacity in Ah  |  |
| Fuse tested  | <input type="checkbox"/> Yes   <input type="checkbox"/> No   | Spare fuse available  | <input type="checkbox"/> Yes   <input type="checkbox"/> No |
| Type of connector  | <input type="checkbox"/> Procar connector   <input type="checkbox"/> Neutrik connector   |   |  |
| Checking the cables for oxidation and contacting   |  | <input type="checkbox"/> Checked   <input type="checkbox"/> Checked and cleaned |  |
| Condition of the device after maintenance  | <input type="checkbox"/> The device is fully functional, safe commissioning is possible<br><input type="checkbox"/> The condition of the device is not perfect, commissioning is not possible Disposal necessary!) |   |  |