

The following documents should be at hand when reconditioning.
 All documents are available for download at the HD Rehab web site, hdrehab.com.

Doc. nr.	Document name
96740-1	Spare Parts List
96764-1	Labelling
96720-1	Technical Information
96724-1	Changes Permitted While Maintaining CE-Marking

General points about reconditioning:

- Reconditioning work must be performed by trained personnel.
- The latest revision of this document must be used. It can be downloaded from hdrehab.com, or mailed as requested from HD Rehab AB.
- Only original spare parts from HD Rehab should be used. Use of standard fasteners from other suppliers is approved subject to our specifications for strength grade and surface treatment being met.
- For further information contact HD Rehab AB.

Position numbers and page names in the Procedure column refer to the Spare Parts list.

Pos.	Section	Procedure
1	General assessment of wheelchair condition	<p>Check that the load-bearing members - wheel frame, seat frame, and back frame - are free from major damage, warping, broken welds, etc.</p> <p>Reinforced wheelchairs should be checked with extra care as they are generally subject to higher wear.</p> <p>Make a general assessment of the wheelchair to determine whether it should be reconditioned or discarded.</p> <p>If the wheelchair is to be used by a new user, reset any modifications to the standard configuration. This is a safety precaution to avoid inappropriate prescription.</p> <p>If the wheelchair is equipped with accessories from other manufacturers it should be given special consideration. See document 96724-1.</p>

Pos.	Section	Procedure
2	<p>Washing</p> <p>Normal alkaline laundry detergent in heated cleaning fluids / water is recommended. Do not use highly caustic detergent.</p>	<p>Very soiled wheelchairs should be washed in special wash equipment. Heated cleaning fluid (60°C) can be used. 3 to 5 minutes washing time is normally sufficient.</p> <p>Preparation for wash: remove all accessories, these are dealt with individually. Remove seat and back cushions, and armrests. Remove leg rests (these can be washed together with the chair if the calf supports are disassembled (see page D 1.1).</p> <p>Remove the seat plate by first fully unscrewing the two knobs under the seat, then pull the seat plate out (26 page 0.2). The seat plate can tolerate washing together with the chair but it may expand and cause difficulties. Disassemble Flexi back by unscrewing the 4 back bolts (10 page 0.1).</p> <p>Remove the drive wheels; these can be washed in the same manner as the chair.</p> <p>Remove any card holders.</p> <p>Wash the chair with the back frame folded down.</p> <p>After washing, tip the chair forwards for better draining. Use compressed air to blow inside the back frame, also outside particularly on the wheel mounts with the brake system, cable controls, and push bar joints.</p>
3	Paint damage	Check for damage to painted surfaces while cleaning and washing. Touch up as necessary.
4	Drive wheels / Hand rims	<p>The wheels are cleaned as the chair, in a spray-type wash.</p> <p>Wheelchairs are normally equipped with PUR tires. Inspect the tires. If they need to be replaced they can be cut off.</p> <p>Both 22" and 16" tires are mounted as normal pneumatic tires.</p> <p>Check that hand rims on 22" wheels are secure and undamaged. Replace if necessary.</p> <p>Inspect wheel bearings. These are sealed and cannot be re-greased.</p> <p>Check wheel axles and grease lightly as needed.</p> <p>Check the spokes on 22" wheels.</p>
5	Castors	<p>Standard castors are puncture-free with PUR tracks. Check and clean. The wheels may have to be disassembled from the forks to be properly cleaned, particularly from hair and the like.</p> <p>Castors are equipped with sealed wheel bearings that cannot be re-greased. Check and tighten the axle bolts and lock nuts as necessary.</p>
6	Wheel mounts / Disc brakes	<p>Clean and blow off with compressed air. Check function. Grease brake pin and axle pin as necessary (page A 2.1). Check brake pads and replace as necessary.</p> <p>Check that cross tube mounting screws are tightened. Use threadlocker (i.e. Loctite 243) for these.</p>
7	Cable control - Brakes	<p>Inspect and check function of brake cables and handles with locking sleeves and covers (page C5.1). Check brake function, both parking and service brakes. Replace defective parts. Adjust braking force as necessary.</p> <p>See <i>Technical Information</i> for more information.</p>
8	User brakes	<p>Inspect and check function of brake cables and handles with covers (page A7.1) Check braking function, both parking and service brakes. Replace defective parts. Adjust braking force as necessary.</p> <p>See <i>Technical Information</i> for more information.</p>

Pos.	Section	Procedure
9	Cable controls Tilt / Recline, Gas springs	<p>Check gas spring function. The piston rod can be lightly greased as necessary (pages A6.1 and B3.1).</p> <p>Replace the gas spring if it does not lock firmly.</p> <p>Check that controls and cable housings are undamaged (page C5.1).</p> <p>Adjust gas spring function with the set screw.</p> <p>See <i>Technical Information</i> for more information.</p>
10	Tip protectors / Tip pedals	<p>Tip protectors are standard and must always be equipped on the chair.</p> <p>Check that the tip protectors are the right type for the wheel size. Check condition. Replace damaged tip protectors (page A5.1).</p>
11	Seat frame / Seat plate	<p>Check the general seat frame condition and verify that it is undamaged.</p> <p>If the wheelchair is fitted with adapters to raise the seat it should be reset to standard configuration.</p> <p>If height adapters are to remain check the following:</p> <p>Warning labels must be attached on the adapters and the user guide must be complemented with information on this.</p> <p>Check that the seat rails are undamaged and securely fastened.</p> <p>Check the condition of the seat plate (including velcro).</p>
12	Back frame / Recline bracket	<p>Check the general back frame condition and verify that it is undamaged.</p> <p>Check the back frame attachment to the seat frame.</p> <p>Check the recline folding pin function with and without the gas spring (page C1.1).</p> <p>Note: Check that the pin is supported by both sides of the recline bracket.</p> <p>Grease lightly as required. Replace damaged parts. The knob should be secured with threadlocker.</p>
13	Flexi-back	<p>The straps and back pieces of the Flexi-back are cleaned with fabric wash. If particularly dirty they can be machine washed or replaced.</p> <p>Check the velcro function after cleaning. The Flexi-back is wiped off with all-purpose cleaner. Check the condition and function of the bracket and lock for head support (page C2.1).</p>
14	Push bar	<p>The push bar is equipped with a cover (7 page C3.1). It should be replaced if worn or damaged.</p>
15	Leg rests / Calf supports / Foot rests	<p>Small nicks on the leg support tubes which are stainless steel can be removed with emery cloth or similar. Check that the leg support tubes are properly tightened (pages D1.1 and D1.4). Check the attachment and locking to the seat frame, and the angle adjustment.</p> <p>Calf supports are cleaned by wiping off with general purpose cleaner. Covers in poor condition can be replaced or replace the whole pad.</p> <p>Check calf support function and tighten screws.</p> <p>Wipe off foot rests and check function and screws (page D3.1 or D3.2).</p> <p>Assemble foot rests to the leg support tubes and check snap-in lock function (1 page D1.3 or 16 page D1.5).</p>
16	Armrests	<p>Wipe off the armrests with general all-purpose cleaner.</p> <p>Replaced damaged armrest pads and side supports (page E1.1).</p> <p>Check function, depth adjustment and height adjustment. Tighten all armrest screws.</p>

Pos.	Section	Procedure
17	Cushions / Upholstery	Inspect upholstery. Wash dirty upholstery. Replace worn upholstery. Replace threadbare cushions completely.
18	Screws / Knobs / Labelling	Check screws and knobs and tighten as necessary. Check labelling on wheelchair. Replace damaged labels. Refer to document 96764-1 for which labels must be found on the wheelchair for CE marking to apply.
19	Test drive	Test drive the wheelchair and test all functions, i.e. braking, back recline, seat tilt, leg rest adjustment.
20	Colour specification	Art.nr. 83031 RAL 7832 Grey-metallic, gloss 85, 12 ml paint stick Art.nr. 83032 RAL 2004 Orange, gloss 72, 12 ml paint stick Art.nr. 83033 RAL 6037 Green, gloss 72, 12 ml paint stick Art.nr. 83008 RAL 9005 Black, gloss 40, 400 ml spray Art.nr. 83028 RAL 9005 Black, gloss 40, 12 ml paint stick