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H-250 Convertible Chair Service Manual SM 002 Rev. A

> b1001-TC-BL b1002-BL S/N: 051-xxxx

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Section 1 Preparation

1.1 Cleaning & Disinfecting

WARNING: Gloves and protective clothing should always be worn when carrying out cleaning procedures.

All surfaces can be cleaned by wiping with a disposable cloth moistened with hand hot water and a neutral detergent. Rinse using clean water, dry with paper towels.

When used by a patient known or suspected of having an infection this piece of equipment should be disinfected. After washing, wipe over with NaDCC at 1,000 ppm of available chlorine (or other chlorine releasing agent). Alternatively wipe over with a 70% Isopropyl Alcohol wipe.

Cautions Do not use Hypocarbonate or Phenol based cleaning agents Do not use any volatile liquids such as thinners or petroleum The chair must not be pressure washed Do not use abrasive compounds or pads. Tests show undiluted Dettol may damage paint and plastic parts if prolong contact is allowed.

1.2 <u>Recommended Tools</u>

Allen Wrench Set – Metric Adjustable Wrench Screwdriver Set

WARNING All tools can be dangerous if used incorrectly.

1.3 Consumables

Loctite 638 Any light mineral based grease Lubricant approved by FDA for use on medical equipment

Section 2 Maintenance and Servicing

2.1 Casters

- Check the condition of the casters and are free of defects.
- Check the operation of the casters.
 - Black lever caster (1) lever engaged will lock into place at 0 and 180 to assist in moving the chair in a straight line (Fig 1).
 - Sliver lever caster (3)
 - Lever engaged will lock the caster in place (Fig 2).
 - Lever released will allow the caster to rotate and swivel (Fig 3).
- Check the operation of the braking mechanism. If the locking mechanism does not hold the chair in place while engaged, then the caster will need to be replaced.



Fig 1. Steering Wheel

Fig 2. Engaged (locked)

Fig 3. Released (unlocked)

2.2 Frame

• Visually check the frame for defects, weld defects, bent or damaged parts. Replace any damaged parts that compromise the safety or correct working of the chair. Check all fixings are present and secure

2.3 Locking Cylinders

• Check the brass fittings on the end of the each cable to make sure they are secured with the brass nut and operating correctly. See Fig 4.



Fig 4. Locking Cylinder cable fitting

• Check for between 2 and 6 mm of movement of the cable stop end see Fig 5.

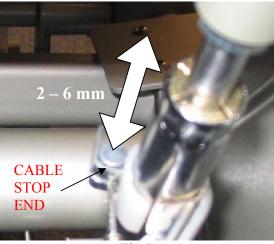


Fig 5

• Check the release lever to make sure it moves freely, see Fig 6. The release lever should not bind or experience friction between the black mounting brackets otherwise the chair may not lock in position properly.

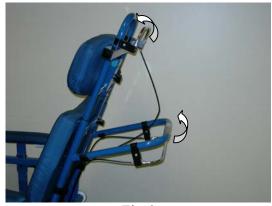


Fig 6

• Ensure the head of the release linkage is secure and operating correctly. See Fig 7.



- Fig 7
- **<u>2.4</u>** Anti-tip Feet (Optional features that may not be present on all chairs)

• Check anti-tip feet are attached and firmly secured. Location on some models may vary. See Fig 8.



Fig 8

<u>2.5</u> Chair Brackets

• Check chair brackets for damage and easy insertion at head and foot locations. See Fig 9.



Fig 9

2.6 <u>Armrest/side rails</u>

- Check the armrests are secure and slide **smoothly** up and down Fig (10).
- Check the operation of the height adjustment knob on both armrests. Check armrest can be locked in each of the allocated positions.
- Check end stop is present and secure.
- Check condition of side screen (Fig 10).

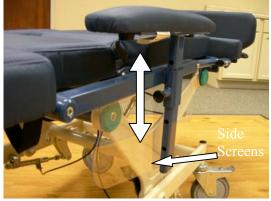


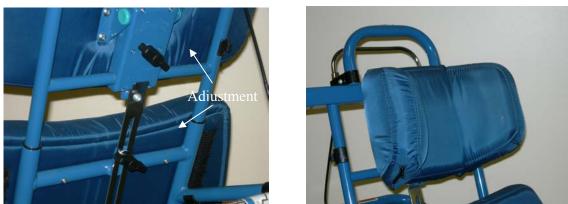
Fig 10

2.7 Cushions

• Check all cushions are secured and undamaged.

2.8 Head Cushion Height, Depth and angle adjustment levers

• Check both adjustment levers are secure and operating correctly. See Figs 11 & 12.







<u>2.9</u> Footrest

• Make sure footrest can be rotated through 90 degrees of motion. See Fig 13a and Fig 13b



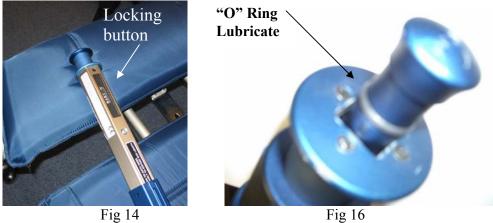




Fig 13b

2.10 Transfer Bar

- Check locking buttons secure and operating correctly. (Fig 14) •
- Check all screws are present and secure. •
- Check crank handle for damage and confirm operation. (Fig 15)
- Lubricate crank handle joints and "O" ring with FDA approved grease. (Fig 16) •





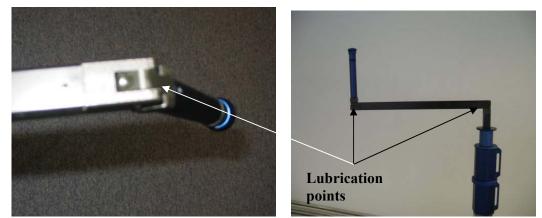


Fig 15



3.1 Damaged Cushions

If the footrest is damaged it can be replaced as follows:

• Pry loose "Top Plate" with a flat edge screw driver. Similar to Fig 17.



Fig 17

• Remove 3 screws from the bottom face, see Fig 18.





- Other cushions may require replacement due to damage and are held in place by screws accessed from the rear of the cushion:
 - Lower Arms Upper arms Seat Back Head rest

3.2 Locking Cylinder

Remove cable from locking cylinder by slackening the brass locking nut (Fig 19 & 20). Remove cable barrel from the slotted arm on the locking spring

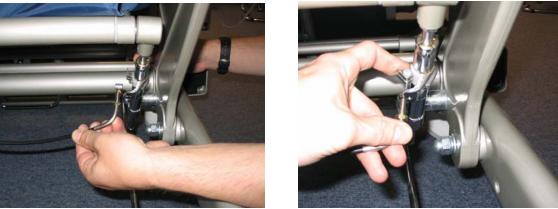


Fig 19

Fig 20

Loosen pivot nut and bolt and remove cable from the release lever (Fig 21).



Fig 21

3.3 Casters

WARNING: Replacing incorrect casters can affect braking capability.

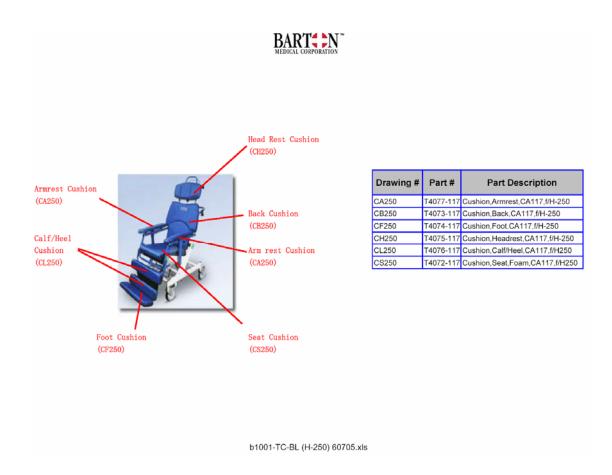
Black lever caster (1) provides steering capability only. Silver lever casters (3) provide braking capability.

Section 4 Checklist

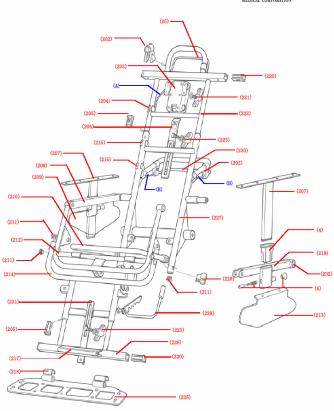
Final Insp	ection and Test Check Sheet
Model	Serial Number
Date	Operator
Accessory	bag
User Manu	al
Casters	
Function 1	caster lock
Function 2	front black caster swivel locked at 0 and 180 degrees
Firm and se	ecure fitting
Damage to	casters or caster mounting
Frame	
Check for w	veld defects
	naged components
Side screen	
Anti-tip fee	et present (optional)
Locking cy	linders
Brass fittin	
Clearance 2	2-6mm
Release lev	ver free to move
	ad operation
	ease linkage is secure
Bracket A	
	rackets for damage
	rtion in all four locations (2 head + 2 foot)
Arms Rest	
	rest freedom of movement
	ing knob engages in each position
	stop screw is present and secure
Cushions	
	ushions secure and undamaged
	l cushion locking handle security and operation
	l cushion height adjuster handle security and operation
Check foot	rest cushion

Section 5 Spare Parts

Barton Convertible Chair – H250



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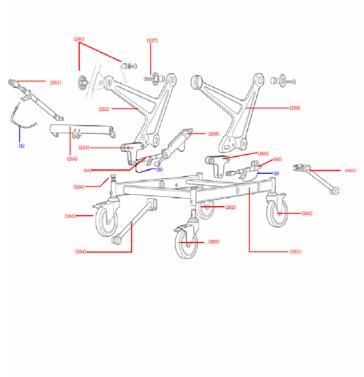


Drawing #	Part #	Part Description
4*	TB9005	Collar,Plastic,ArmrestAdjust,f/H and I-Series
6	T4097	Plunger,Index,Armrest,f/H and I-Series
25	T4094	Lever,f/Recline and Footrest,f/H and I-Series
202	T4100	Lever,BrktAssy,f/H and I-Series
203*	TH4005	Mechanism,Lock,Headrest,f/H-250
204	T4113	Clamp,CableGuide,1cbl,11mm
205*	TH1095	Collar,Headrest,VerticalFrame,f/H-250
206*	TH4020	Link,Headrest,VerticalAdjust,f/H-250
207	T4115	Armrest,Frame,H-250
208*	TH1005	Frame,Main,Arm,RH,f/H-250
209	T4099	SideShield,RH,H-250
210*	TH1010	Frame,SeatCushion,f/H-250
211*	TH1015	Cap,Nylon,Frame,CalfSupport,f/H-250
212*	T4102	Frame,Footrest,f/H-250
213	T4098	SideShield,LH,H-250
214*	TH1020	Frame,Main,CalfSupport,f/H-250
215	T4080	Clamp,Plastic,Cableguide,f/1cable,black
217*	TH4010	ProtectionCover,Rubber,Heel,Large,f/H-250
218*	TH4015	ProtectionCover,Rubber,Heel,Small,f/H-250
219*	TH1025	Frame,Main,Arm,LH,f/H-250
220	T4081	Collar,Plastic,f/TransferBrkt,H-250
221	TH3005	Knob,Plastic,Locking,Headrest,f/H-250
222*	TH1030	Frame,Main,HeadSupport,f/H-250
223	T4083	Knob,w/Bolt,NylonWasher,Assy,H250
225*	TH1035	Frame,Cushion,FootStep,f/H-250
226*	TH1040	Frame,Main,Footrest,f/H-250
227*	TH1045	Frame,Main,BackSupport,f/H-250
228	T4079	Clamp,Plastic,CableGuide,f/2cables,black,H-250
229*	TH3010	Lever,Footrest,AngleAdjust,f/H-250
230	T4095	Lever, Tilt, H-250
231*	TH4025	Rail,Footrest,VerticalAdjust,f/H-250
232*	T4101	Cap,Siderail,Blue,H-250
A	T4090	Cable,Assy,f/Recline,f/H and I-Series
В	T4088	Cable, Assy, Tilt, RH and LH, f/H-250 and I-330



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Drawing #	Part #	Part Description
60	T4092	Cylinder,Locking,Tilt,RH and LH,f/H-250 and I-33
250*	TH1050	AxisAssy.Stretcher,Adjust,Front,f/H-250
251	T4096	Cylinder,Locking,Recline,H-250
252*	TH1055	Frame,Main,Seat,RH,f/H-250
253*	TH1060	Frame, BrktAssy, Tilt, RH, f/H-250
254*	TH1065	Shaft,Stretcher,Adjust,f/H-250
256*	TH1070	Cap.Nylon,Frame,Caster,f/H-250
257*	TH1075	AxisAssy,Stretcher,Adjust,Rear,f/H-250
258	T4091	OilDamper,H-250
259*	TH1080	Frame,Main,Seat,LH,f/H-250
260*	TH1085	Frame,BrktAssy,Tilt,LH,f/H-250
261*	TH1090	Frame,Main,BaseCaster,f/H-250
262	T4070	Caster,6",TotalLock,TC,Assy,H-250
263	T4071	Caster,6",DirectionalLock,TC,Assy,H-250
264	T4085-front	Bar,AntiTipper,front,H-250
265	T4085-back	Bar,AntiTipper,rear,H-250
A	T4090	Cable,Assy,f/Recline,f/H and I-Series
В	T4088	Cable,Assy,Tilt,RH and LH,f/H-250 and I-330



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