



GTM[®]**MOBIL**
TECHNOLOGY

Instructions for use wheelchair
versions according to Annex No. 1

GTM MUSTANG

CE

GTM MOBIL TECHNOLOGY Polska, 03-195 Warszawa, ul. Dorodna 16
tel: +48 22 213 14 11, fax: +48 22 213 14 12, e-mail: gtmmobil@gtmmobil.com.pl
WWW.GTMMOBIL.COM



We would like to thank you for choosing products from Mobil Technology GTM. We sincerely hope that we will meet your requirements and expectations for service.

Mobil Technology Company GTM has made every effort to ensure that the product of your choice meets the highest requirements for durability and quality, as attested by the CE mark - meaning it meets mod essential requirements.

Our company was founded in 2003 and since then we have engaged in the design - manufacture of wheelchairs for active rehabilitation and professional sports chairs. Wheelchairs are designed for active people who want to actively move around in everyday life, practicing active relaxation. Sport weelchairs are designed for professionals actively engaged in sports activities.

Design and manufacturing processes are carried out by the best specialists from several disciplines. Importantly, owners, designers and company employees are often people that use our wheelchairs. We can therefore, constantly improve quality and performance, making them more functional and, above all, lighter.

We have also gained valuable experience in cooperation with athletes to build wheelchairs for fencing, rugby, basketball, tennis and dance also. Professionals use these wheelchairs in various fields of sports, winning individual and team sports for an olympics and other athletic tournaments.

Apart from the active products we also a parapodium manufacturer and our latest product "BLACKBIRD" HANDBIKE is a high performance sports bike for the disabled.

We cordially invite you to visit our website www.gtmmobil.com.pl where you can see the news and get interesting information and also share their insights and comments about our wheelchairs.

The owners and staff



Table of contents

1. Basic Information	
1.1 Purpose of wheelchairs GTM MUSTANG	3
1.2 Technical inspection.....	3
1.3 Technical data and dimensions.....	4
2. Use of the wheelchair	
2.1 Warnings.....	5
2.2 Stability and basic driving techniques	6
2.2.1 Balance.....	6
2.2.2 Deep balance.....	7
2.2.3 Overcoming the elevation.....	7
2.2.4 Overcoming the step.....	7
2.2.5 Descending stairs.....	8
2.2.6 Getting on and off the wheelchair	9
3. User manual	
3.1 Wheelchair settings	10
3.1.1 Adjusting the angle of the lift	11
3.1.2 Adjusting the balance.....	14
3.1.3 Adjusting the height of the footrest	18
3.1.4 Adjusting the depth of the calf strap.....	18
3.2. Maintenance wheelchair during exploitation	18
3.2.1 Washing, cleaning, disinfection	18
3.2.2 Tools for maintenance	19
3.2.3 Cyclic maintenance	19
4. Assembly, disassembly, adjustment	
4.1 Parts designed for easy regulation	20
4.2 The additional safety belt.....	20
4.3 Setting up skirtguards.....	21
4.4 Adjustment of element - skirtguards.....	21
4.5 Removing the front wheel.....	21
4.6 Removing the rear wheel.....	21
4.7 Exchange of bearing.....	22
4.8 Lowering backrest	22
4.9 Regulation of fast instal axle	23
5. Service and warranty	
5.1 Identification of parts supplied by manufacturer.....	24
5.2 Warranty on selected items	24
5.3 Sending the wheelchair to the service	24
5.4 A list of authorized service facilities	25
5.5 List of components subject to an authorized servicing	25
5.6 Parts list.....	25
5.7 Conditions.....	27



1.1 Purpose of wheelchairs GTM MUSTANG

The self propelled wheelchair with handdrive, MUSTANG GTM is used to transport the disabled with spinal cord injury, cerebral palsy, or with various leg injuries.

GTM wheelchairs are designed for people who want to actively move around in everyday life in a wheelchair. The minimum size of the wheelchair and adjustable center of gravity, after proper training in driving techniques allows users to overcome architectural barriers such as kerbs, etc..

Due to the light weight design and dimensions of the wheelchair, folding down the backrest, removing skirt guards and rear wheels easily allows lifting of the wheelchair by a person with a disability. It is very important to correctly adjust the wheelchair to an individual's requirements and needs so that the characteristics of wheelchair's position are optimal. Carefully read all of the information contained in this manual, which is also important in terms of safety regarding the use of your wheelchair.

1.2 Technical inspection

Before using the wheelchair, make sure that:

1. Quick-release rear wheels lock securely and correctly.
2. The backrest locks in two positions and moves
3. Forks front wheels rotate without resistance.
4. Rear wheels are located correctly.
5. All additional items ordered were delivered.
6. Geometric Parameters of wheelchair, such as:
 - seat width
 - seat height
 - height of the back

correspond to your order.

If any of these parameters is not met, please contact your dealer



Basic information

1.3 Technical data and dimensions

Annex no. 1

	GTM MUSTANG
Frame:	aluminum, welded, rigid
Camber angle:	from 0° to 8°, at 1°
Weight of the wheelchair:	5,4 kg without wheels
Size of rear wheels:	17", 20", 22", 24", 25", 26", 28"
Handle:	steel, aluminium, fast install
Security:	steel, aluminium fast install
Size of the front wheels:	3", 4", 5", 6", 7"
Maximum user weight:	120 kg

Characteristic dimensions:

	GTM MUSTANG		
Wheelchair length:	A	30 - 90 cm	at 0,5 cm
Frame width:	W	20 - 60 cm	at 0,5 cm
Frame height:	C	30 - 65 cm	at 0,5 cm
Backrest height:	D	10 - 80 cm	at 0,5 cm
Seat angle setting:	E	0° - 20°	at 0,5 °
Front height:	F	30 - 70 cm	at 0,5 cm
Footplate width:	H	10 - 40 cm	at 0,5 cm
Seat depth:	L	20 - 60 cm	at 0,5 cm

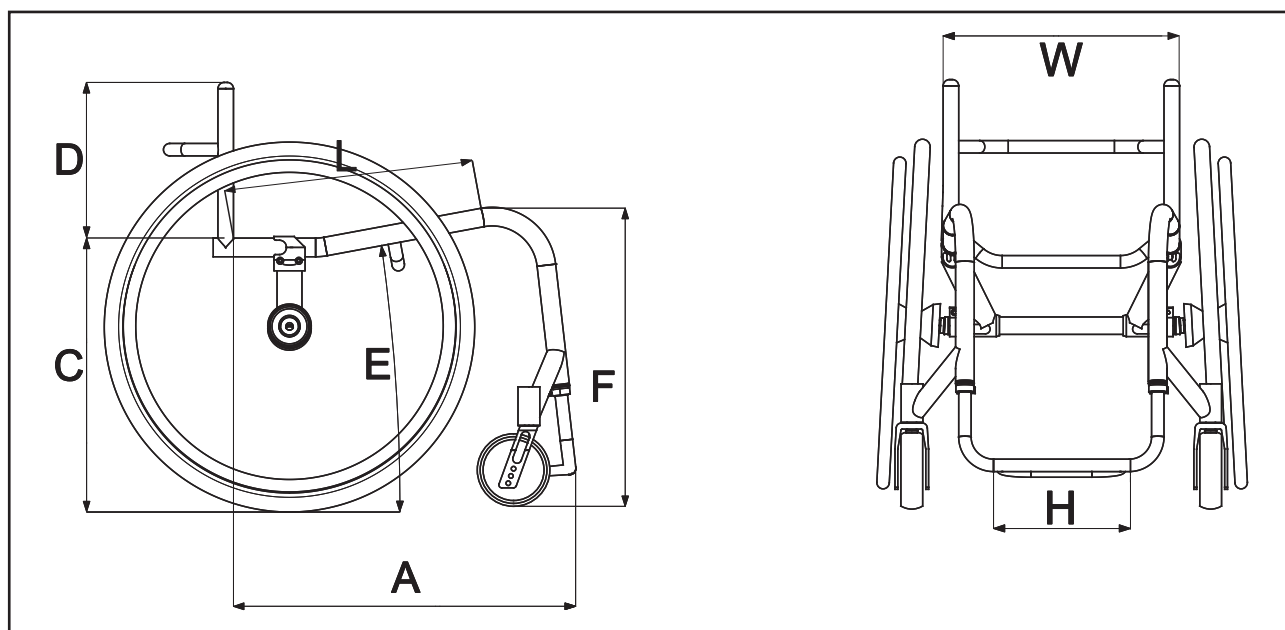


Fig.1 GTM MUSTANG - Dimensions



2.1 Warnings



Before using the wheelchair GTM MUSTANG you must familiarise yourself with the wheelchair along with the people that are helping and assisting in the use of the wheelchair.

The following information should be used as basic guidelines for the use of the wheelchair.

Individual users often develop wheelchair techniques to move a wheelchair, making them easier to use every day. MOBIL TECHNOLOGY company GTM encourages and supports owners of its equipment to improve driving techniques, but this user information must be respected in order to maintain safety.

Attention!!!



Do not lean out over the wheelchair in any direction to reach for any items, as this changes the center of gravity of the user-wheelchair and will reduce its stability, which may result in tipping the chair.



In particular, do not lean toward the rear of wheelchair, which may cause a tip over backwards and may result in an accidents.



When you pick up the wheelchair ensure that the quick-release wheels are properly locked and rotate the front casters to increase the spacing between the rear axle and front wheels (with a light push in the opposite direction to the direction of travel), which will increase the stability of the wheelchair.



Changing the footrest, and its depth will change the center of gravity of the user-wheelchair which changes the stability of the wheelchair.



Do not drive on slopes with an angle greater than 10 °



Exploitation



Do not use a wheelchair without the same pressure in both tyres. Do not exceed the maximum allowable pressure for the tyre which is specified on its side surface. The tyre may explode above the recommended tyre pressure. Recommended tyre pressure: 4-6 bar.



Do not use escalators to move between floors.



Do not drive on sloping surfaces covered with ice, oil and other substances that can cause a skid.



Do not lift the wheelchair by quick release axles or skirtguards, which can result in accidents and damage to wheelchair components.

2.2 Stability and basic driving techniques

To ensure proper operation of your wheelchair, at any time, you must maintain an appropriate balance. To overcome any architectural barriers and other obstacles, so that a loss of balance, which could cause an accident.

2.2.1 Balance

Ability to balance on the rear wheels (Figure 2) allows for better mobility in a wheelchair, breaking steps, curbs, etc. Ensure that this is only done with an attendant and only carried out by experienced user.

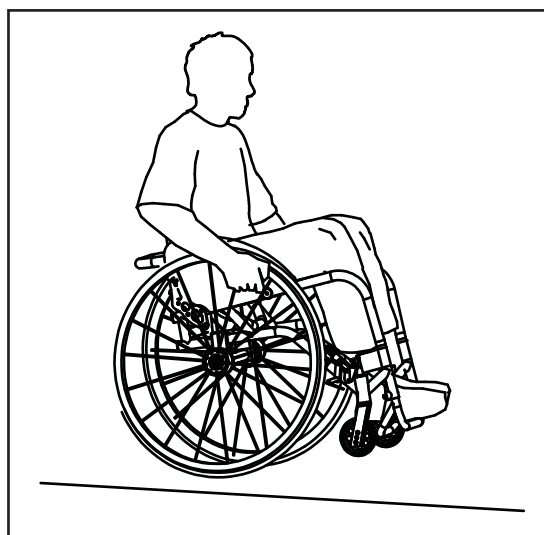


Fig.2 Balance



2.2.2 Deep balance

In the case of deep balance shown in (Fig. 3) should be heavily tilted to the position of the torso almost parallel to the seat.

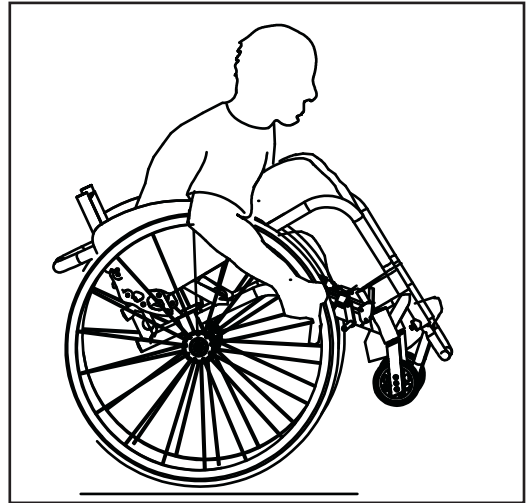


Fig.3 Deep balance

2.2.3 Overcoming an elevation

Lean forward when propelling up a slope as in figure 4.

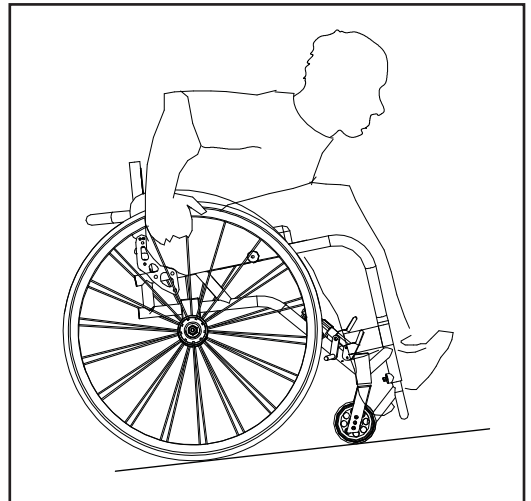


Fig.4 Overcoming an elevation

2.2.4 Overcoming a step

Method to overcome the degree of (curb, etc.) shown in Figure 5 is to drive up wheelchair back to the step, then the person helping lifts the wheelchair with the handles (the person in a wheelchair should be tilted slightly backwards in order to facilitate) and carefully lift the rear wheels over the step.

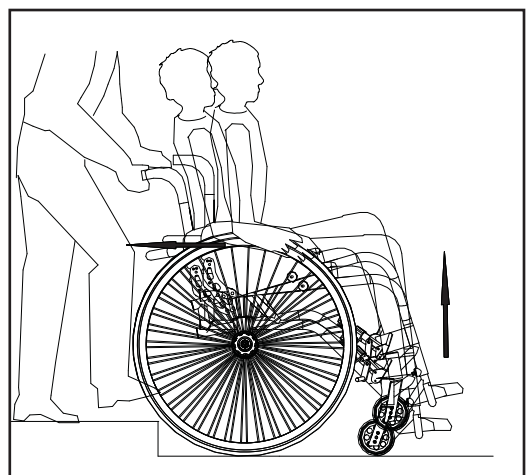


Fig.5 Overcoming a step.



Another method to overcome the grade (curb, etc.) is shown in Figure 6 is to drive up wheelchair back to the step, then the person helping lifts the wheelchair with the handles (the person in a wheelchair should be tilted slightly backwards in order to facilitate), assisting the other person who grabs the front of the frame and then simultaneously lifting the chair by bringing it up the obstacle.

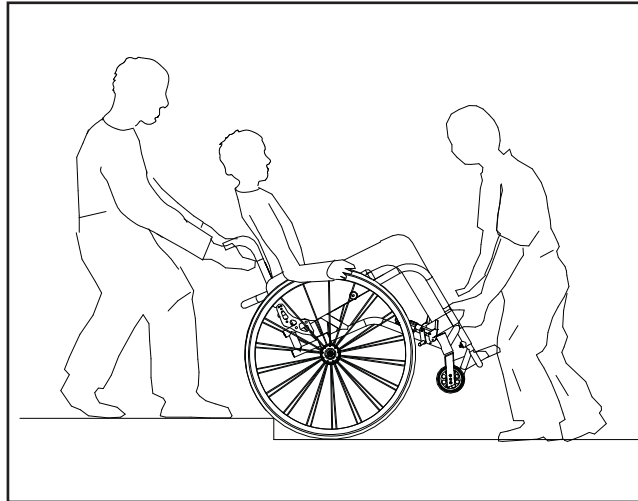


Fig.6. Overcoming a step.

2.2.5 Descending stairs

To descend stairs requires two people assisting. One person grabs the wheelchair rear roll bar, the second raises the chair by a fixed front part of the frame, then lifts the chair. Figure 7.

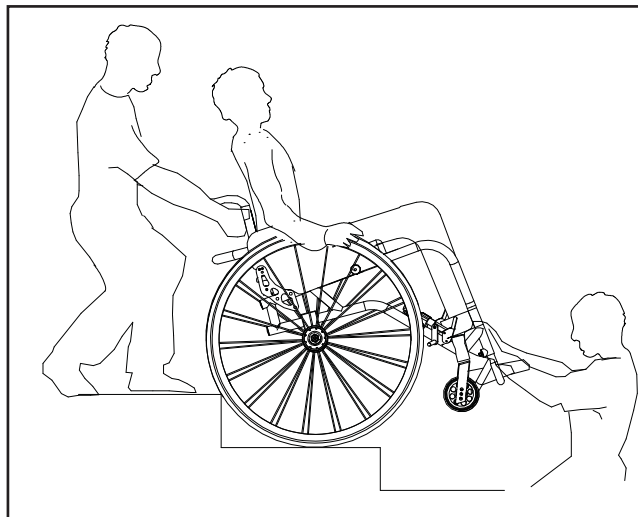


Fig.7 Overcoming stairs



2.2.6 Getting on and off the wheelchair

Position a wheelchair close to the bed or chair into which you want to transfer. Before commencing a transfer ensure you apply the breaks to the rear wheels. Place your hand onto the surface you wish to transfer to and carefully reposition yourself towards the edge of the wheelchair seat. This will reduce the chair stability so care must be taken when doing so to avoid the chair tipping. Carefully slide your body weight across from the wheelchair to the bed or chair. See Figures 8-13 below.

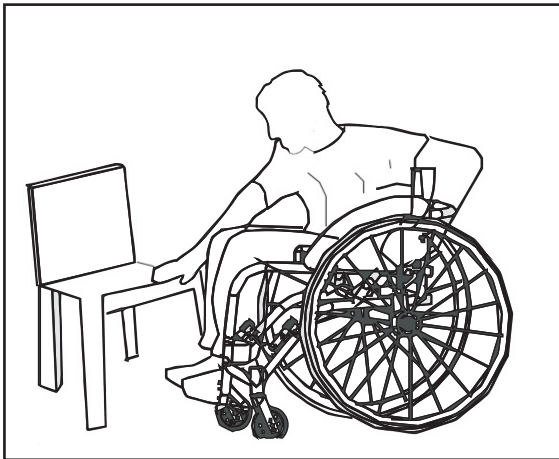


Fig.8

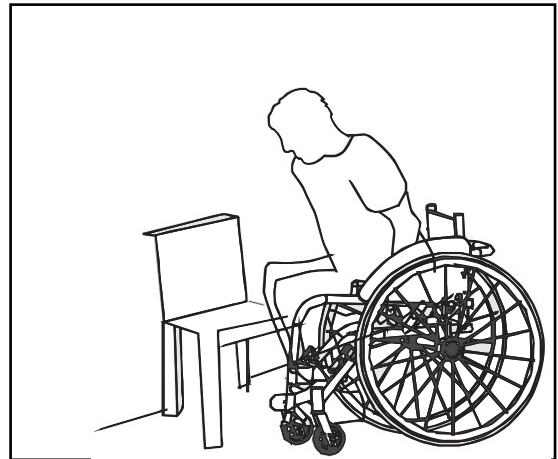


Fig.9



Fig.10

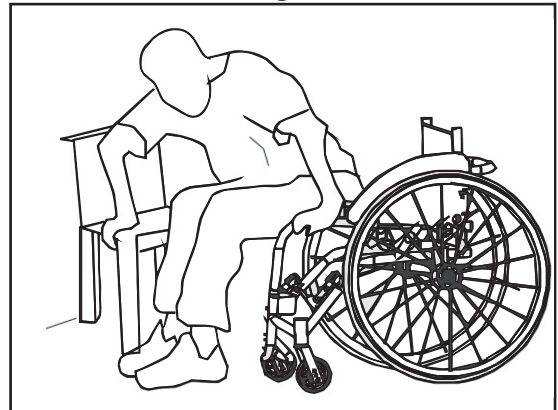


Fig.11

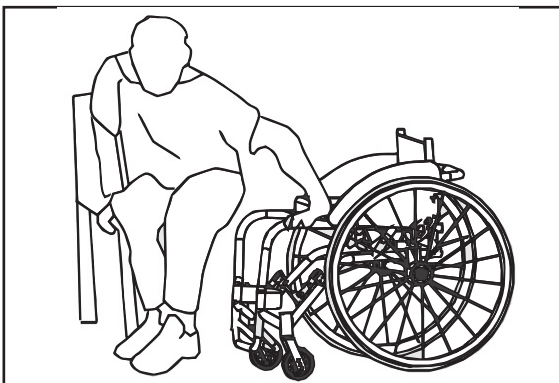


Fig.12



Fig.13



Transferring from the bed or chair to the wheelchair is a reverse of the above information. Ensure the rear wheel brakes are applied prior to commencing transfer. Figures 14-17.

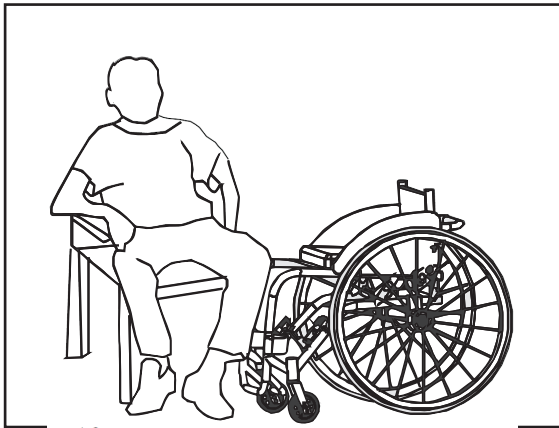


Fig.14

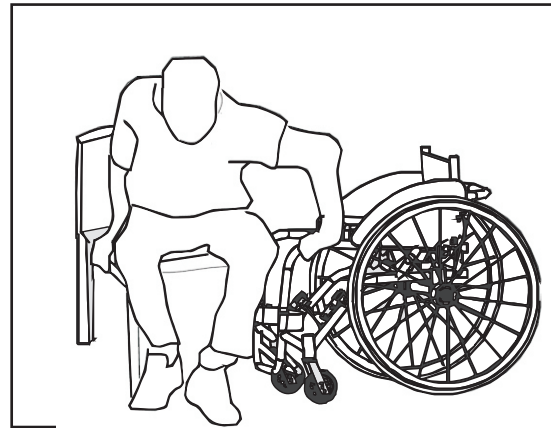


Fig.15

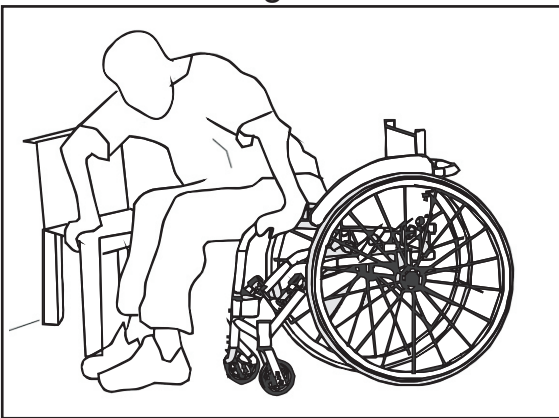


Fig.16

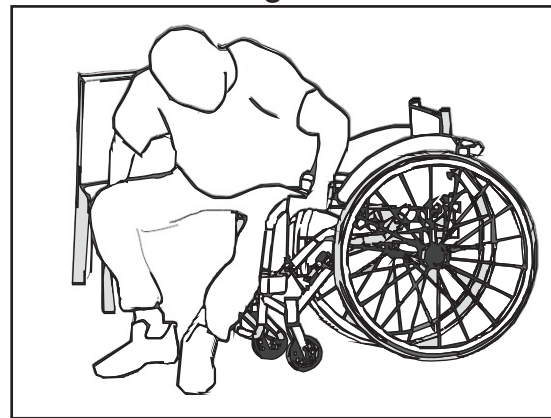


Fig.17

3.1 Wheelchair settings



It is important that the wheel chair is correctly adjusted prior to use and that it meets the users requirements.

1. Adjust the backrest angle and lock into place.
2. Ensure axle brackets are located and fixed in the correct position.
3. Ensure the quick release wheels are securely located.
4. Adjust the height of the footplate.



3.1.1. Adjusting the angle of the backrest

Prior to backrest angle adjustment, perform the following steps:

a) Remove both wheels. To remove the wheel, press the button in the center, from the outer side (arrow indicates the position of the button on Figure 18). Hold down the button to slide the wheel of the axle. By pressing the button it should be possible to remove the axle with minimum effort. If not, you need to make sure that the key is clamped tightly enough.

b) Two cut outs on the side locate the skirtguards. To remove raise the front edge so that it pivots around point 2 in Figure 20 and detach. The backrest should not be adjusted without removing the skirtguards.

c) The backrest upholstery is attached to the rear of the seat and canvas using Velcro. Remove Velcro to access the fasteners.

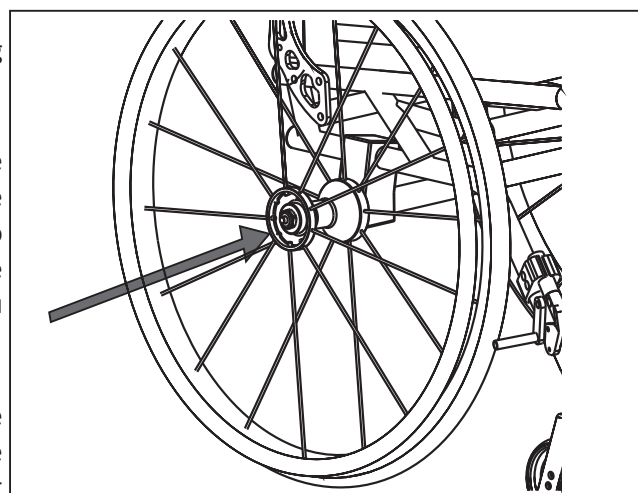


Fig.18. Location of button wheel removal

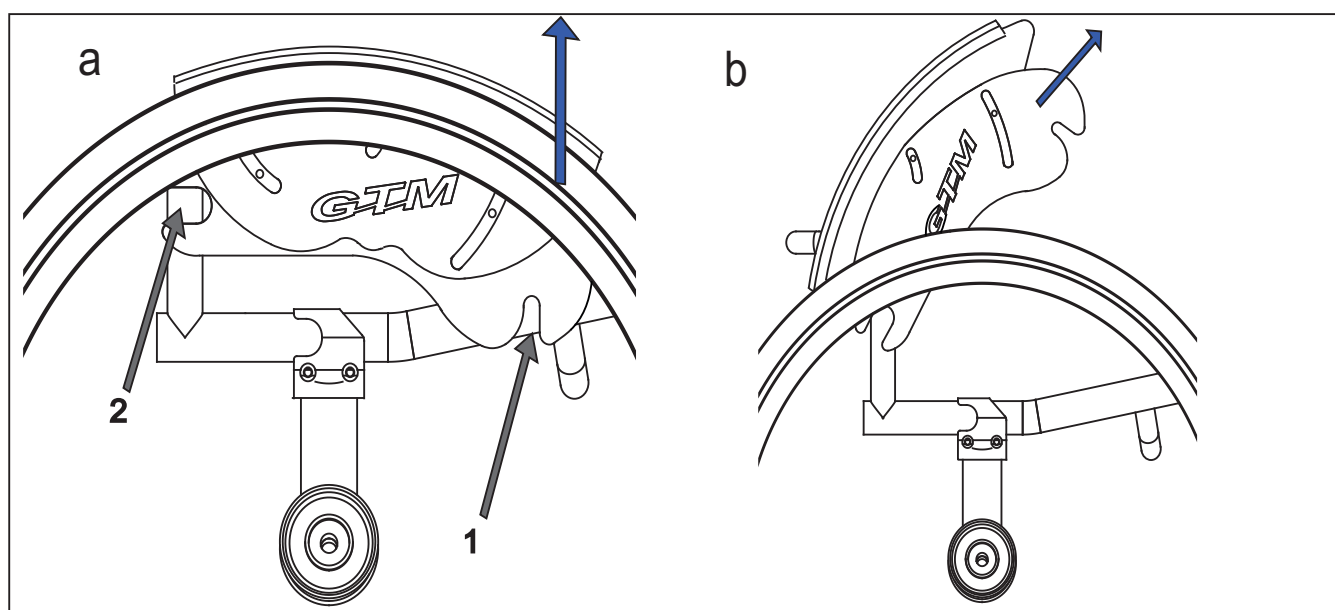


Fig.20. Removing skirtguards



When adjusting the angle of the backrest a seat lock positions the seat and the seat backrest. On this wheelchair, there are two locks. One on each side. Location of the lock is marked on Figure 21.

In the seat lock there is a group of holes. Use the appropriate holes to change the angle between the backrest and seat. The seat lock is fastened to the seat structure by means of bolts passing through the hole "1" (Fig.22) and the pin in the hole "2" (Fig.22).

The mechanism allows for two-way adjustable backrest angle. Tilt lock allows the seat to tilt forwards 3, 6 and 9 degrees, and tilt the seat back 3, 6, 9 and 12 degrees. The opening "A" (Fig.22) provides neutral position of the wheelchair seat. Adjustment will be made by means of screws "A" (Fig.23). Screw "C" (Fig.23) at each setting remains in the same position. Screw "B" (Fig.23) will be set in your guide, depending on the position of the screw "A" (Fig.23), by a connector "D" (Fig.23) linking the two screws.

Figure 18 describes the change in angle of the seat lock in relation to the neutral position, depending on where the hole will be on screw "A" (fig.23) (fig.24 minus the mean slope in front).

Fastening screws lock ("B" and "C", Fig.23) are screwed in self-locking nuts ("E" and "F", Fig.23). Fixing screws to lock the seat tube is shown in Fig.23. Therefore, to remove the fasteners You will need both spanners 8 mm and 10 mm and Aleen keys 3 mm and 4 mm.

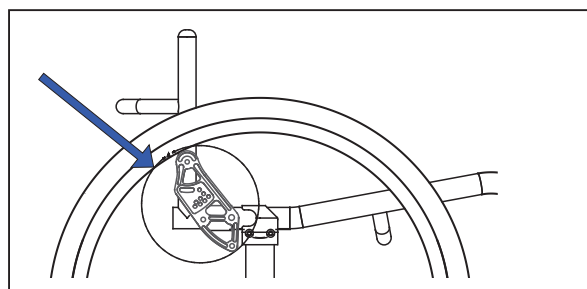


Fig.21 Position lock

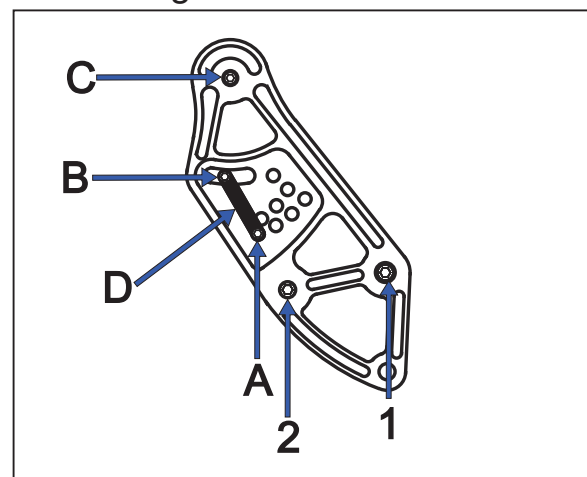


Fig.22 Seat lock

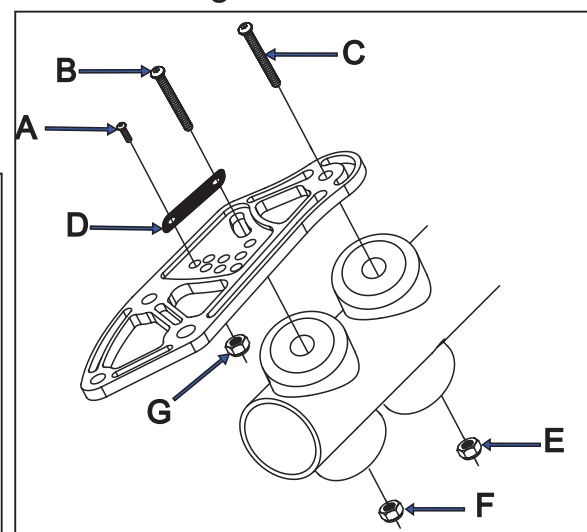


Fig.23 Fitting the lock to the back

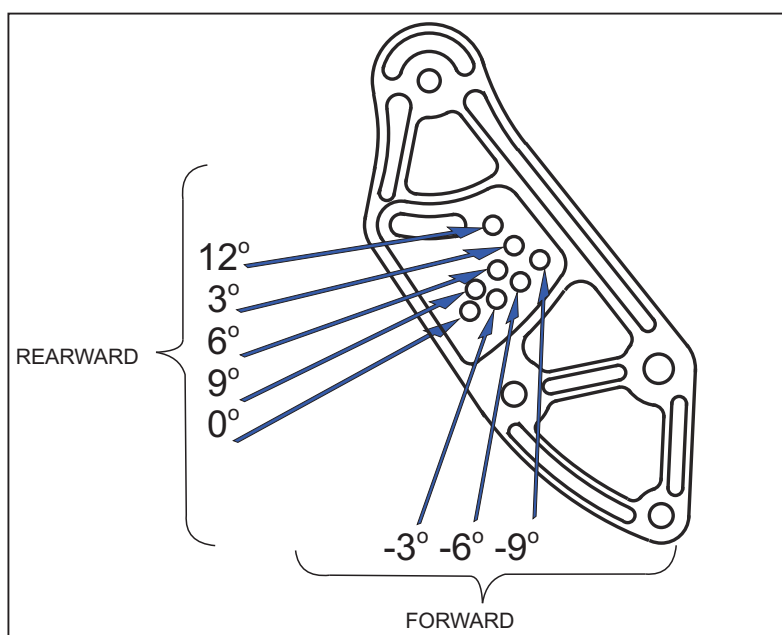


Fig.24 Seat lock - regulatory holes



When adjusting the angle of the wheelchair it is very important to set the back bumper (Fig.25). If an adjustment is carried out incorrectly, the load may cause damage to the pin "2" (Fig.22).

Using wrench 10 mm and 4 mm allen bolts loosen holes "B" and "C" (Fig.23). Using a spanner hold locking nuts, "E" and "F" (Fig.23). Unscrew the allen bolt. It is not necessary to unscrew "B" and "C" (Fig.23) completely and remove, just loosen them slightly. To check whether the bolts have been loosened, lower the "mushroom" (item 1, Fig.26) to the tube seat (item 4, fig.26). If the "mushroom" does not want to move, it means that the bolts are not loose enough. If the "mushroom" can be based on the seat tube, this means that the screws "B" and "C" (fig.23) have been sufficiently loosened.

Then unscrew the screw "A" (Fig.23). For this you need wrench 8 mm and 3 mm allen. Just as in the case of bolt "B" and "C" (Fig.23) wrench nut, hold the "G" (Fig.23) and unscrew the allen screw. In contrast to the screws "B" and "C" screw "A", remove the end. Repeat for the opposite hand. Loosen the screws "B" and "C" and remove the screw "A" (Fig.23)

The next step is to set the screws "A" (Fig.23), in the hole. You can choose from Fig.24. Ensure that the screws on both sides were in the corresponding holes. After selecting the backrest tilt, turn screw "A" (Fig.23) in position using a spanner 8 mm and 3 mm allen. Screw must pass through a hole in the connector "D" (Fig.22).

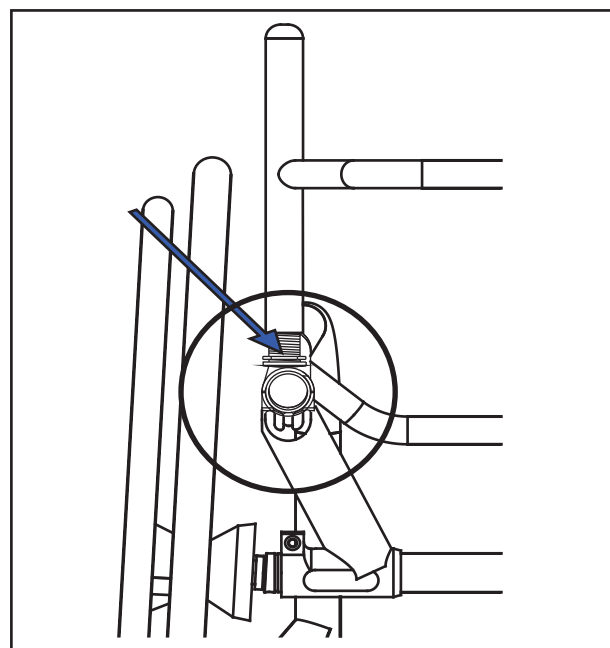


Fig.25 Position the bumper support

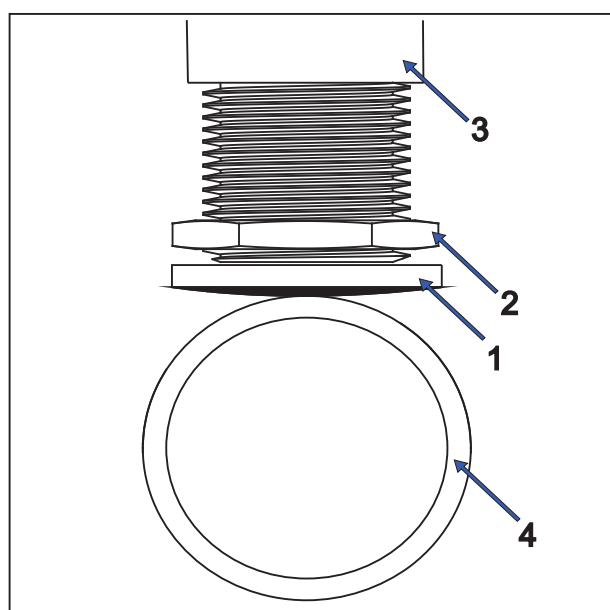


Fig.26. Back bumper

Before turning the screws "B" and "C" (Fig.23), you should push the "mushroom" to the seat tube. Then, tighten locking nut (item 2, Fig.26) to the maximum upper position (that is, until it lightly rests against the seat tube, part 3, Fig.26). Then tighten the screws "B" and "C" (Fig.23) using a 10 mm wrench and 4mm allen. After tightening the screws, see if you can move the "mushroom". If the screws are securely tightened the "mushroom" should not move.

If the adjustment has been carried out correctly, the backrest will fold down without any resistance. If not, repeat the whole procedure again.

If you have done all the steps for locks on both sides, adjust the upholstery and fasten it with Velcro, then refit wheels and skirtguards.



3.1.2 Adjusting the balance

To adjust the axle position you need to remove the wheels, brakes and upholstery.

a) The rear axle connectors are shown in Figure 27. It is attached to the frame by a clamp. To adjust loosen both screws on the clamp to alter the axle setting. Ensure that adjustments made are replicated on both sides. Following adjustment, measure distance from clamp to the end of the seat frame (see "X" on Figure 29.) Once dimensions are equal on both sides refasten the two screws on the clamp. When adjusting the axle position please note that it affects the stability of the chair. By moving the axle clamp to forward position can result in an unstable condition.

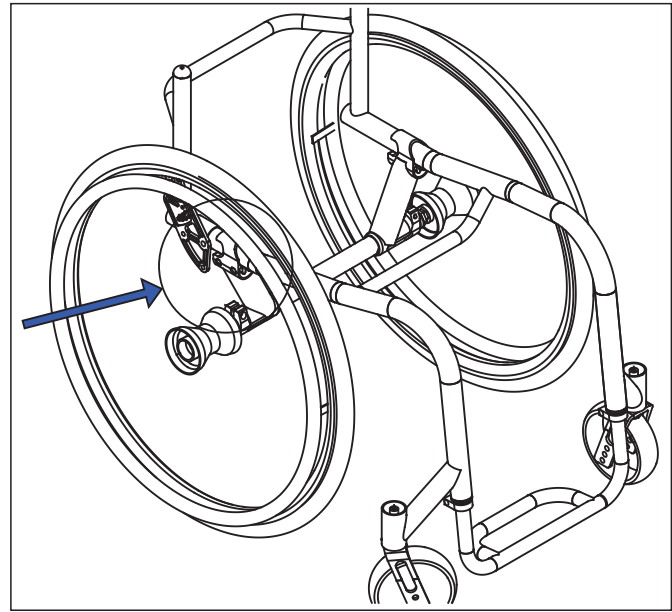


Fig.27. Location of main axis connectors

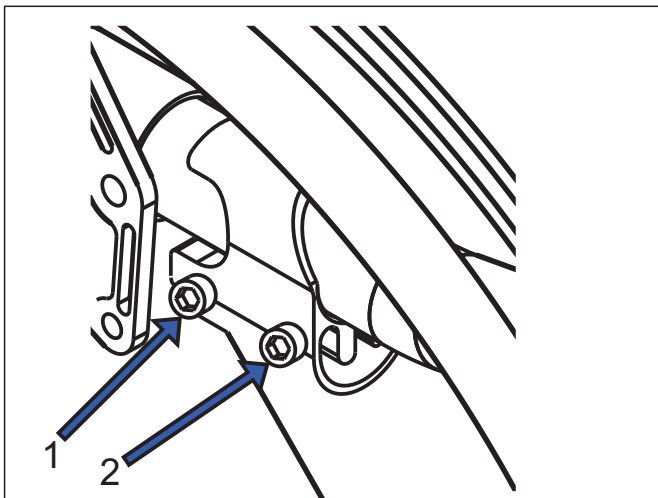


Fig.28. Connector clamp

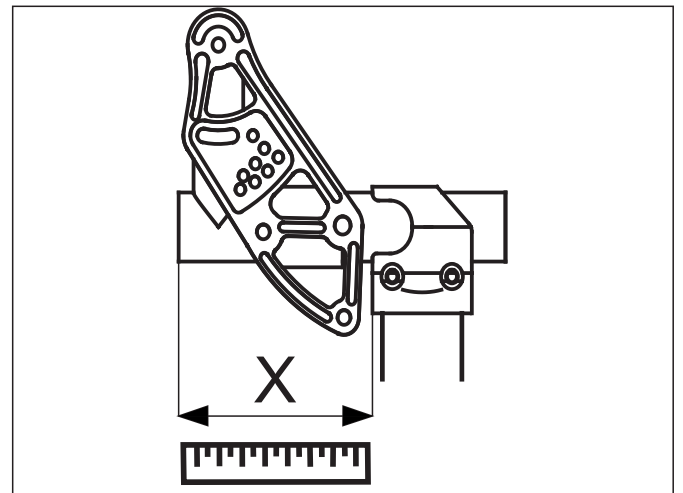


Fig.29. Clamp to seat frame positioning



b) Adjusting the brakes

Location of brakes is shown in Fig.30.

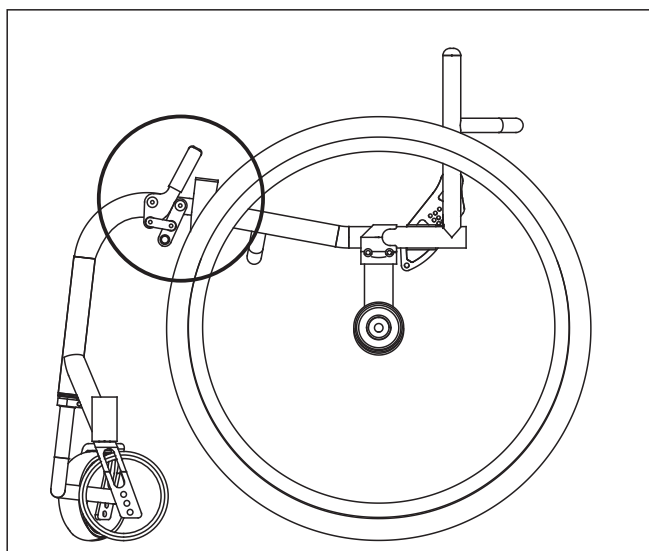


Fig.30. Brake position

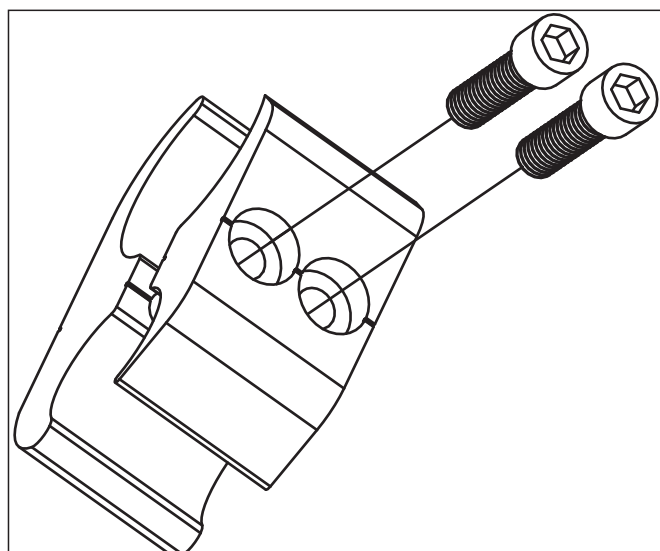


Fig.31. Brake clamp bracket

The brakes are attached to the wheelchair frame by a clamp which is retained by two screws. When adjusting the brakes you must ensure that both rear wheels are correctly located.

Using a 4 mm Allen key undo the screws and slide the clamp along the wheelchair frame. Adjust the clamp so that when the brake is engaged it applies sufficient pressure on the tyre to prevent it rotating. Once the desired position is found tighten the screws securely. Repeat for both sides.

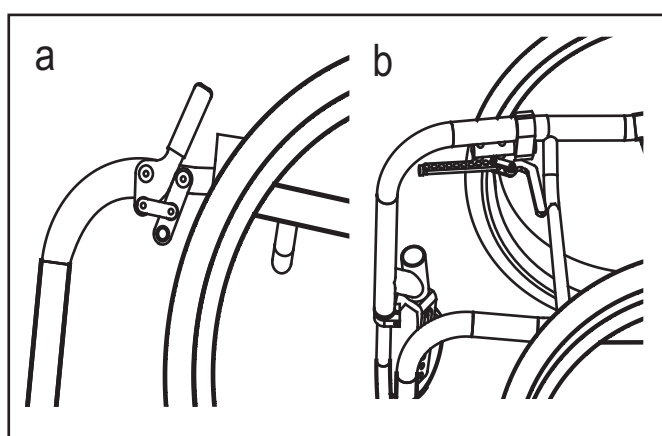


Fig.32. Opened brake

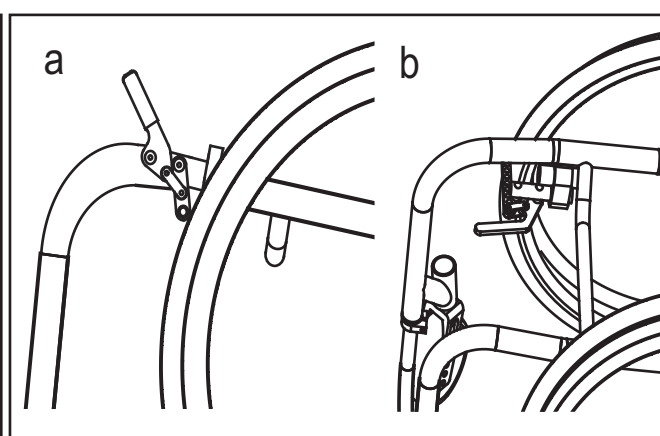


Fig.33. Closed brake



c) Setting the upholstery

Wheelchair upholstery consists of two parts. The seat upholstery (Fig.34) and the upholstery of the backrest (Fig.35). Seat upholstery is made up of pillow ("1", Fig.34), trapezoidal seat part ("2", Fig.34) and the rectangular seat part ("3", Fig.34). Back upholstery has an additional "flap" ("1", Fig.35) that links back upholstery with seat upholstery. Seat trim and back trim are attached to the frame using the self holding belts.

The first thing to be done is the separation of the cushion ("1", Fig.34) from the seat part ("2" and "3", Fig.34) and unfasten "flap" ("1", Fig.35) between the back upholstery and seat upholstery ("tongue" is sewn into the backrest upholstery, and connected with the upholstery of the seat by Velcro). Next remove seat parts ("2" and "3" Fig.34) leaving only the stripes on the frame. Then, set the depth and tension of self holding belts. Belts are fastened by Velcro. Move it along the frame to desired position and fasten it with desired tension. As you move belts along the seat tube it can lead to a situation in which we can meet the crosstube. In this case it is allowed to undo the belt and fasten it on the other side of the crosstube (Fig.36). It is important to pay particular attention that the space between the belts is no larger than 5 cm. Such a distance between the belts can cause a drop in comfort in use. Backrest upholstery consists of a main back trim ("3", Fig.35), "flap" ("1", Fig.35) and self holding belts ("2", Figure 35). To adjust the trim, you must detach the main part of the back upholstery from the back frame. Adjust proper belt tension and fasten self holding belts. Then link back upholstery with seat upholstery using a "flap" ("1", Fig.35). The "flap" after fastening should not be tight. Finally, fasten the cushion with seat upholstery.

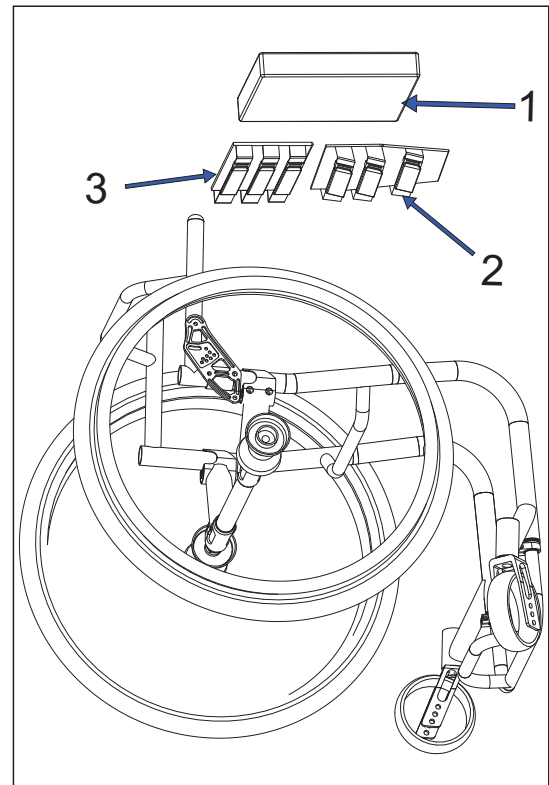


Fig.34. Seat upholstery

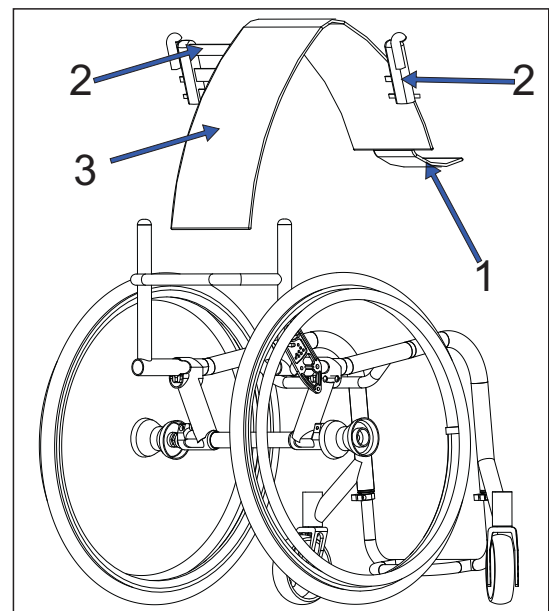


Fig.35. Back upholstery

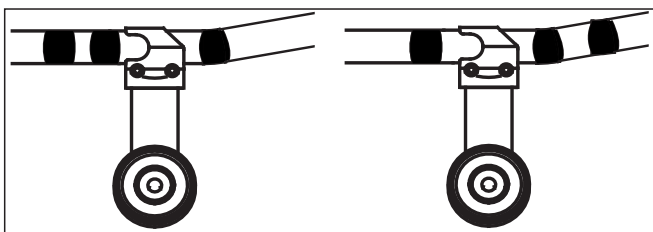


Fig.36. Possible arrangements of the belts



d) Adjusting skirtguards

In Fig.37 skirtguard location is shown (the actual shape may differ from the shape shown in the figure).

Each of the skirtguard is made up of two parts. The first part is secured to the chair by means of undercuts ("1" and "2" Fig.38). The second ("II", Fig.39), fastened with the first using three screws ("A", "B" and "C" fig.39) and three threaded caps ("1", "2" and "3" fig.39.) mounting both parts together, shown in Fig.39 is very important that the skirtguard sections are fastened in the correct order. Some plastic ("II", Fig.39) should be closer to the seat because it provides comfort to the user. To adjust, loosen the screws "A", "B" and "C" (Fig.39) using a 4 mm allen. Loosen bolts to move freely in their guides, "A", "B" and "C"(Fig. 38).

Set the screws in the rails locating parts as shown in Fig.38. Set the skirtguard in the desired position, so that between the skirtguard and the tyre is a uniform width over the entire length of the skirtguard. Then, using the 4 mm allen tighten fully.

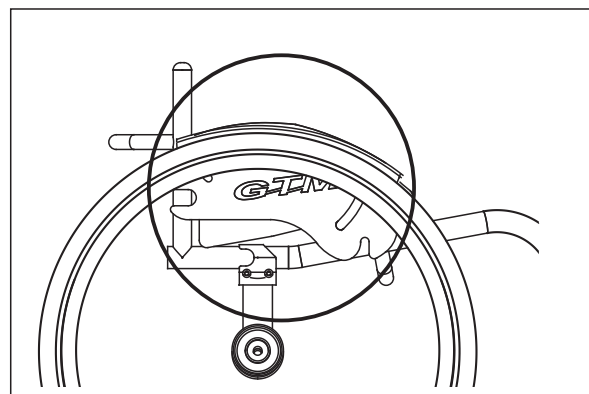


Fig.37. Position of skirtguard

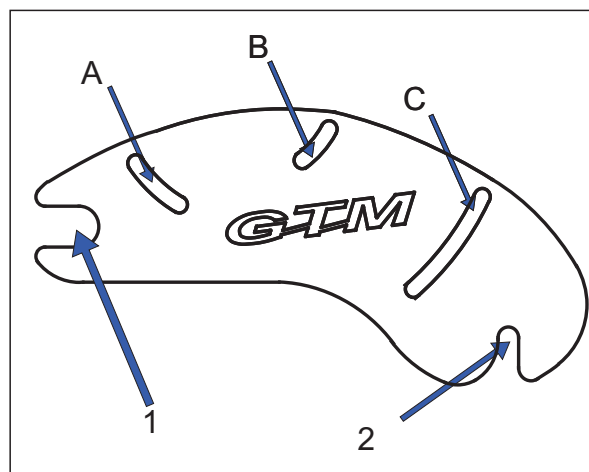


Fig.38. Skirtguard

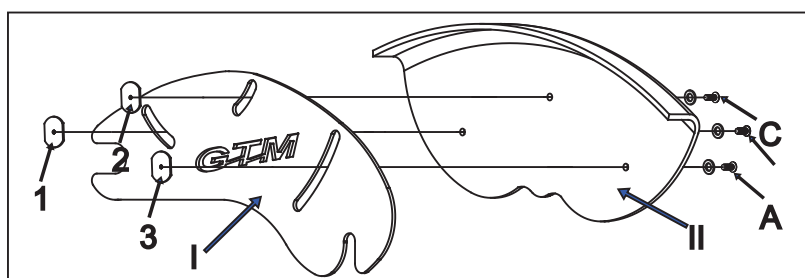


Fig.39. Submit skirtguard

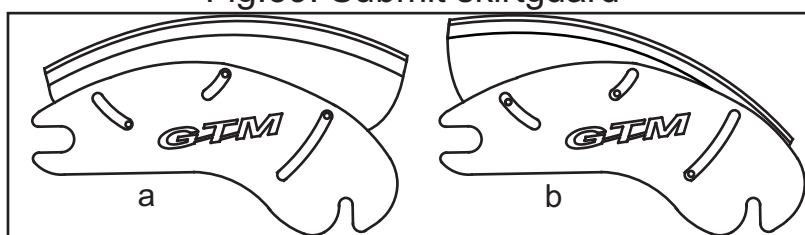


Fig.40. The extreme position of skirtguard
a - balance front, b - balance rear



3.1.3 Adjusting the height of the footrest

Loosen the two allen screws 4 mm Fig.41 marked by an arrow on the frame blocking wheelchair footrest. Then using a rubber mallet move the footrest in the upper position (the largest gap between the footrest and the floor) and then move it towards the floor until a desired position is found. Carefully adjust the footrest so that it is parallel to the ground, then tighten the allen screws to lock footrest.

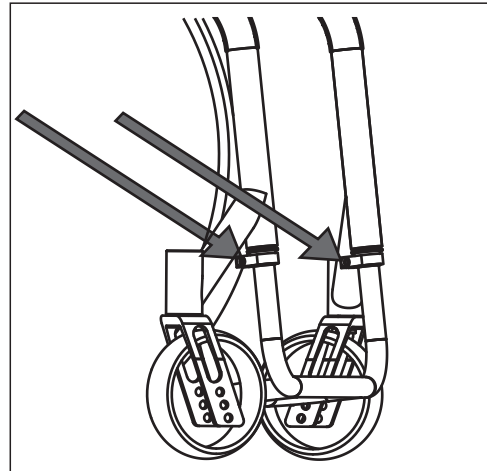


Fig.41. Footrest mounting bolts crush

3.1.4 Adjusting the depth of the calf strap

Depending on the length of the legs, they bend at the knees and the individual needs of the chosen depth of the protective belt with leg straps marked by an arrow on Figure 42 (known as Velcro).

To adjust the depth of the calf strap unfasten the self holding lane, and than fasten it in desired position.

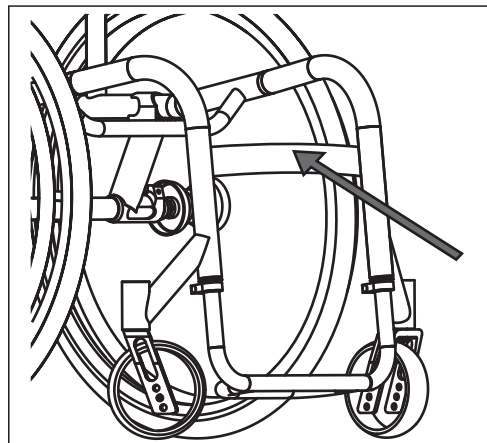


Fig.42. Safety belt legs

3.2 Maintenance wheelchair during exploitation

3.2.1 Washing, cleaning, disinfection

The wheelchair frame should be cleaned with a slightly damp cloth with a solution of water and mild detergent.

Seat and backrest upholstery should be washed in a solution of water and detergent (washing powder, clothing) at 40 degrees Celsius, then rinse with clean water.



3.2.2 Tools for maintenance

- W3 Allen key (supplied)
- W4 Allen key (supplied)
- W5 Allen key (supplied)
- Wrench size 8 mm (included)
- Wrench size 10 mm (included)
- Grease spray
- Buckets for replacement of tires and inner tubes

3.2.3 Cyclic maintenance

Once a month you should:

- Check the space between the fork and front wheel marked with an arrow in Figure 43, for a build up of dirt or foreign bodies, which can cause the accelerated wear of the front wheel bearings. The front wheel must be removed by unscrewing it from the fork, remove any impurities, and then lubricate with a light mineral grease.

- Clean and lightly grease the axles of the rear wheel using a damp cloth. Clean the mounting holes on the axles. Lubrication should be carried out once a week, do not allow a build up of impurities on the quick release axle.

- Check an fasteners on the chair loose bolts must be tightened. In case of heavy use, the chair a check must be carried out once a month.

- Check tire pressure, depending on the needs they are between 4,5-7 bar (or atmospheres). Ensure that the pressure was equal on both wheels.

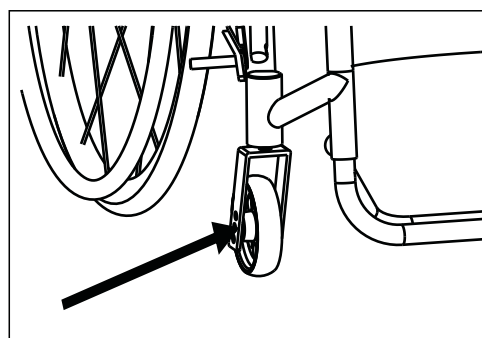


Fig.43. Front wheel

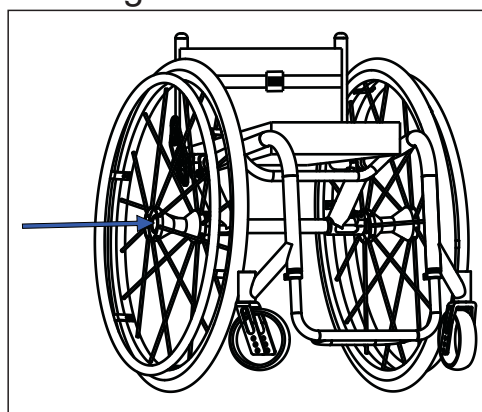


Fig.44. Quick-Release button



Assembly, disassembly, adjustment

- Lubricate the pin that locks the back "1" (Fig. 46). To do this first remove the rear wheels put the chair on its side and pull the rope on the folding backrest, so that the locking pin "1" is visible. Pour a few drops of oil or spray lubricant on the sleeve, in which the locking pin is mounted. Check and lubricate once a month.

- Check the brakes by wiping them with a damp cloth to remove impurities, while lubricating bushing screws which rotate the brake levers. Perform this activity once a month.

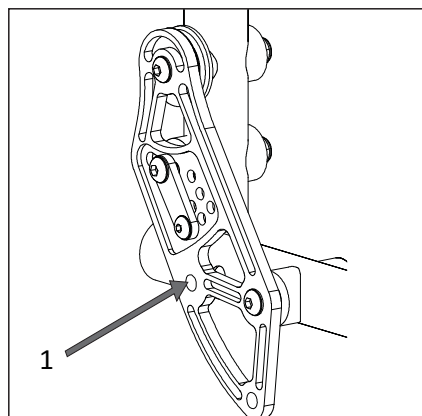


Fig.46. Zamek oparcia

4.1 Parts designed for easy regulation

The user carries out assembly and disassembly of parts provided to be easy to control, replacement or maintenance. Parts referred to are:

- Additional safety belt
- Sides
- Handles
- Anti-tip wheels
- Brakes
- Quick-wheel axles of large
- Upholstery for seat and backrest
- Rear wheels
- Front Wheels

4.2 The additional safety belt

If necessary, additional safety belt "1" should be installed under the pipe cross-back "3" (fig.47), wrap it around the backrest tubes "2" (fig.47), as shown in (Fig. 47).

To adjust the safety belt unfasten the clip from the buckle, and than fasten it in desired position.

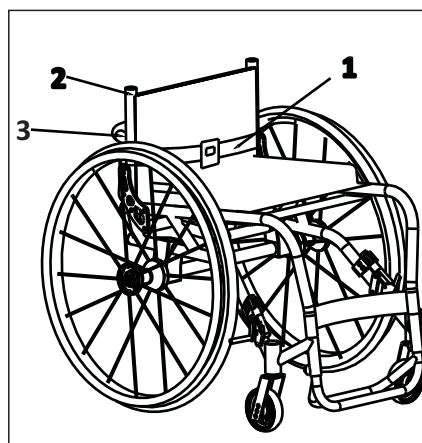


Fig.47. Safety belt



4.3 Setting up skirtguards

In order to install side guards "1" (Fig.48) You should slip rear undercut in position "2" (Fig.48) between the seat tube and seat lock for the back "3" (Fig.48), then insert the in outer in the fixing element "4" (Fig.48) front undercut "5" (Fig.48)

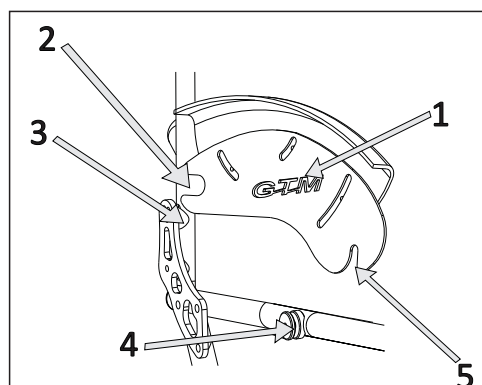


Fig.48. Installation of the side guard

4.4 Adjustment of element - skirtguards

The adjustable fastener is to increase the clamping element "1" (Fig.49) or its reduction. To tighten, turn screw clockwise or anti-clockwise to undo.

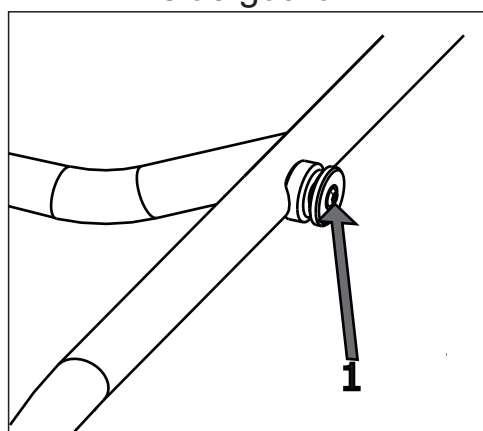


Fig.49. Mounting element

4.5 Removing the front wheel

To disassemble the front wheel, unscrew the nut "4" (Fig. 50) and remove the screw "1" with bush "3", and slide wheel spacers, together with "3" (washers are fitted between the inner part of the fork)

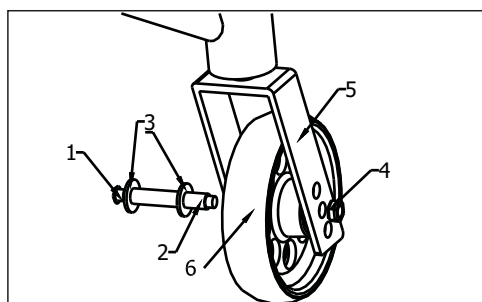


Fig.50. Front wheel

4.6 Removing the rear wheel

To disassemble the rear wheels should press "1" quick-release pin (Fig. 51) and then pull the wheel from the frame mount.

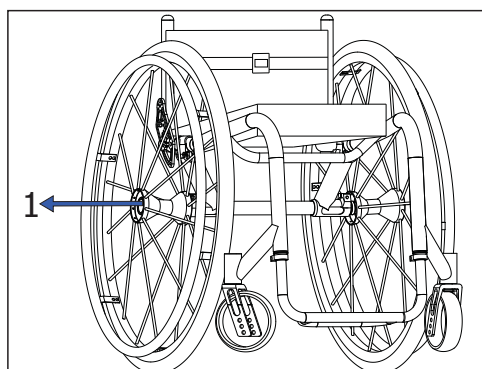


Fig.51. Removing the rear wheel



4.7. Exchange of bearing



Bearings must only be replaced by an approved repairer

To replace the front forks bearing (bearing designation: 6001 2RS), remove the protective cap "4" Fig.52, then unscrew the nut self-locking M12 "3" Fig.52 (19mm wrench needed) while holding the fork to prevent rotation of the axis fork "1" Fig.52. Then remove the axle fork "1" in the direction of Fig.52. The bearings can then be removed

Installation of new bearings start from the rear of the lower two bearings, then position the upper bearing. Insert axis "1" together with a fork and wheel assembled by bearing "2" and then tighten self-locking nut from the top "3" (Fig.52) so that the fork rotates with a slight resistance, then loosens the nut 1/16 of a turn. Re-fit cap "4" Fig.52

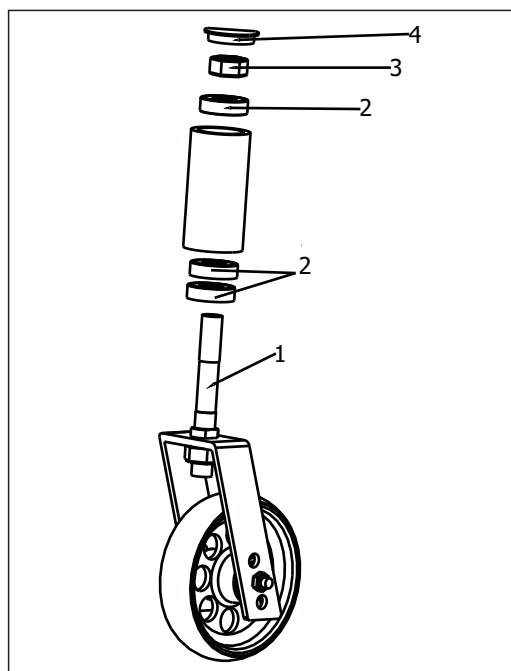


Fig.52. Replacing front wheel bearings

4.8 Lowering the Backrest

The backrest is lowered by pulling the chord to the rear of the backrest canvas. This allows the backrest to be folded forward. To reposition rotate backrest back to the vertical position pulling the cord to allow relocation and lock in securely.

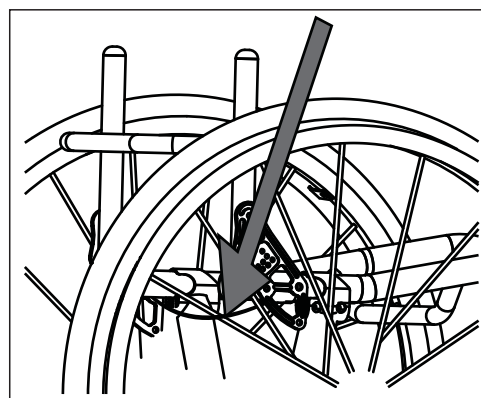


Fig.53. Location of link submission support

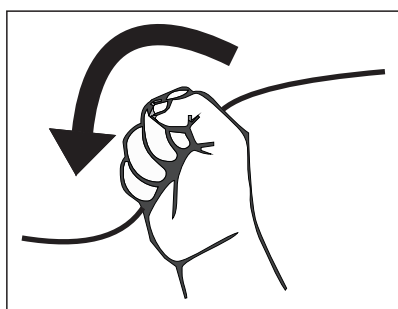


Fig.54. Use the links folding backrest



4.9 Adjustment of quick release axle

The quick-release wheel axle is adjustable along its length with a nut "2" (Fig.55). This nut positions and maintains a clearance of the main wheel-mounted in the frame. If the clearance is too great the axle does not lock up properly (the unlock button does not extend to the end of the wheel mounted in the chair) you should shorten or lengthen the axle. You do this by adjusting the nut "2" on the axle holding the spanner size 11mm for security "1" (Fig.55), thus preventing it from turning, thereby obtaining the shortening or lengthening.

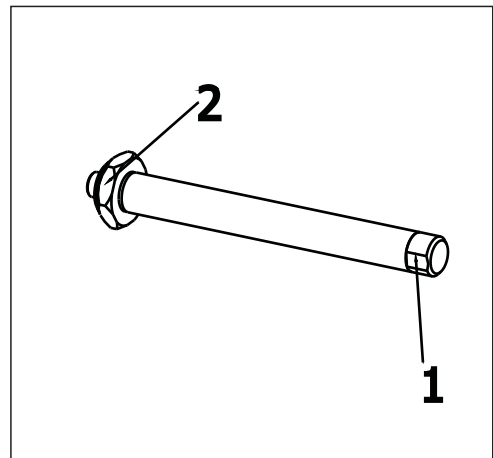


Fig.55. Quick release axle



Warning: Following any adjustment made to the quick release axle checks must be made to ensure that the wheel locates and locks correctly and also that it can be released by pressing the centre button. Failure to do this can result in serious injury to the user.



5.1 Identification of parts supplied by the manufacturer

- Front Wheel
- Seat and backrest upholstery
- Rear wheel
- Quick release wheels
- Brakes
- Skirtguards
- Handle
- Safety belts

5.2 Warranty on selected items



The damage to the items listed below correspond to wear and tear by the user and not subject to warranty. They are:

- Front forks bearing clearances
- Rear wheel bearing play
- Loosening of the main wheel spokes
- Damage to the upholstery
- Damage to the front wheels
- Damage to the brakes
- Tyre damage
- Damage to the locking mechanism on backrest
- Damage to the footrest
- Rear wheel spigot
- Damage to the rear wheel axle Quick Change
- Damage to locking mechanisms, handles and safety belts

5.3 Sending the wheelchair to the service

In order to repair the chair, you must send it to the manufacturer in a protective packaging to ensure against accidental damage during transport, preferably in the original packaging, through a company designated by the manufacturer. For this purpose, please contact directly the manufacturer or your dealer.



5.4 A list of authorized service facilities



GTM Mobil TECHNOLOGY
FUDALEWSKI - WALISIEWICZ SP. J.
 Ul.16 Dorodna
 03-195 Warszawa
 tel: +48 22 213 14 11
 fax: +48 22 213 14 12
 e-mail: gmmobil@gmmobil.com.pl
www.gmmobil.com

5.5 List of components subject to an authorized servicing

- Replacing the wheel bearings front and rear
- Replacement and repair parts support mechanism
- Replacement and repair of the components of the main axis

5.6 Parts list

Part description	Part number
front wheel 26mm / 4 "	00-001
Front wheel axle stal45	00-002
Front wheel bushing	00-003
Front wheel washers O17x8x1 sleeves, 5	00-004
Allen bolt front W5x55 wheels, steel	00-005
self-locking nut to bolt the front wheels (00-005)	00-006
M12 self-locking nut to the front wheel axis	00-007
protective cap M12 (00-007)	00-008
protective sleeve bearing	00-009
deep groove ball bearings with rubber covered on both sides 60012RS	00-010
aluminum front wheel forks	00-011
Front wheels 35mm / 4 "	00-012
glowing rings	00-013
footstool "U"	01-001
Allen screw locking steel footrest W5x15 (01-001)	01-003



Service, warranty

Part description	Part number
skirtguard bracket kit with inner cover	02-001
protective anti-pollution skirtguards	02-002
spring for fixing mechanism of skirtguard	02-003
Seat upholstery in self holding lanes	06-001
Upholstery on seat belt belts self holding	06-002
upholstery seat belt fastened to the main base	06-003
safety strip for legs	06-004
standard seat cushion	06-005
additional seat belts	06-006
large wheels 24x1" Sport	07-001
standard big wheels 24x1"	07-002
large wheels 24x1" with a string coated	07-003
wheel 22x1 "	07-004
titanium series	07-005
quick Change R12x98mm steel axle with cap	07-006
big wheel bearings 60012RS	07-007
stainless steel series	07-008
coated string	07-009
26x1 sport wheels	07-010
quick Change R12x98mm steel axle to the wheels standard	07-012
quick Change wheel axle 22"	07-013
aluminum series	07-014
metal handles	08-001
shields rubber handles	08-002
elements of the quick-metal whiskers	08-003
metal locking sleeves	08-004
anti-tipping metal wheels	09-001
plastic caps	09-002
elements of the quick-metal	09-003
metal locking sleeves	09-004
Sports brake LEFT	13-006
sports brake RIGHT	13-007
brake calipers	13-008
standard brake LEFT	13-009
standard brake RIGHT	13-010
Key flat eyelet screws and nuts M6 (10)	10-001
W5 bent allen key	10-002
W4 bent allen key	10-003

GTM MOBIL TECHNOLOGY Polska, 03-195 Warszawa, ul. Dorodna 16
 tel: +48 22 213 14 11, fax: +48 22 213 14 12, e-mail: gtmmobil@gtmmobil.com.pl

WWW.GTMMOBIL.COM



5.7 Conditions

1. GTM MOBIL warrants purchased a wheelchair for the period:
 - Chair frame: 8 years
 - Other elements of the chair: 12 months.
2. Guarantor guarantees good quality and smooth operation of the equipment provided that it will be used according to specifications and guidelines contained in the Instruction of use.
3. In the event of damage during the warranty period or defects in materials manufacturer provides free repair.
4. Seller is required to give buyers an wheelchair, ready for immediate operation.
5. The user must ensure the correct operation, adjustment and maintenance of the chair according to the instructions located in the User's use.
6. Warranty does not cover damage resulting from improper use or not accordance with the instructions for use, preservation and storage.
7. The warranty does not cover the tyres (rear/front).
8. The warranty is void:
 - If it expires
 - Following the introduction of design changes by the user in a wheelchair,
 - Failure to observe the correct operation of the instruction manual wheelchair,
 - Repairs by a non approved repairer
9. The warranty exchange or repair covers parts only. The whole chair will not be refunded or exchanged.
10. The warranty card is valid when completed fully and should include: number, model chair, the name of the purchaser, date of sale, stamp and signature point of sale.
11. This warranty card fault does not cover damage caused by the flood, earthquake, acts of war.





GTM Mobil TECHNOLOGY FUDALEWSKI - WALISIEWICZ SP. J.

03-195 Warszawa, ul.16 Dorodna

tel: +48 22 213 14 11, fax: +48 22 213 14 12

e-mail: gtmobil@gtmmobil.com.pl

www.gtmmobil.com

Warranty Card Number.....

Wheelchair Model.....

Name of purchaser.....

Date of sale:

Signature and stamp dealer:

Pos.	Date of adoption	Release Date	Type of repair	Stamp and signature of the service