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JOKER PERFORMANCE

USER'S MANUAL

progeo
ACTIVE DESIGN

Index:

1.0	General information	4
1.1	Introduction	4
1.2	Guide to symbols	4
1.3	General characteristics of the wheelchair	4
1.4	Use	5
1.5	General advises	5
2.0	Safety	5
2.1	Movements: getting in and out of the wheelchair	5
2.2	Starting to use your wheelchair	7
2.3	Dealing with obstacles: stares and steps	7
2.4	Dealing with obstacles: slopes and inclines	10
2.5	Ensuring stability	11
2.6	Tyre pressure	12
2.7	Quick release axles	13
2.8	Backrest locking system	14
2.9	Footplate	14
2.10	Calf strap	15
2.11	Tubular armrest	16
2.12	Fasteners	16
2.13	Wheelchair lifetime	17
2.14	Avoiding accidents	17
3.0	Loading the wheelchair	17
4.0	General description of the wheelchair parts	20
5.0	Using the wheelchair	21
5.1	Use	21
5.2	Closing the backrest	21
5.3	Opening the backrest	22
5.4	Lifting the wheelchair	22
5.5	Quick release rear wheels	23
5.6	Using the brakes	24

5.7	Safety belt and harness	24
6.0	Adjustments	26
6.1	General	26
6.2	List of parts in standard set up	27
6.3	Backrest height adjustment	28
6.4	Rear wheels adjustment	28
6.5	Front wheels height and angle adjustment	29
6.6	Backrest angle adjustment	31
6.7	Footplate adjustment	32
6.8	Brake adjustment	33
6.9	Backrest upholstery adjustment	34
6.10	Mudguard adjustment	34
7.0	Accessories	36
7.1	Height adjustable removable swingaway armrests	36
7.2	Transit wheels	37
7.3	Anti-tip wheels	37
7.4	Tipping aid	38
7.5	Crutches support	38
7.6	Other accessories	38
8.0	Maintenance	40
8.1	Replacements of worn parts	40
8.2	Inspection of components	41
8.3	Troubleshooting guide	41
9.0	Technical data	42
10.0	Warranty	43
11.0	Certification	44

1.0 General information

1.1 Introduction

At RehaTEAM® constant research into quality and creativity are the cornerstone of our business. After many years in the industry we remain genuinely focused on providing total customer satisfaction while bringing innovative style and design to every one of our high-quality wheelchairs.

We have become industry leaders by making excellence and service our top priorities. All of our models are built from carefully selected materials and provide multiple configurations allowing full personalization. We perform continuous, meticulous quality control and testing in order to offer the highest possible quality combined with fast, reliable service.

We acknowledge that we owe our success to our clients as well as to those who have believed in us and helped us quality is the best differentiator.

1.2 Guide to symbols

In this manual you will often see the following symbols which are used to highlight points which are of particular interest or importance:



This symbol indicates actions that must be avoided at all times



This symbol indicates that particular care should be taken about a procedure or note in order to avoid causing harm to people or things, or breakages and dangerous situations in general.



General information to improve usage of the wheelchair by the user.



Essential tool: a flat screwdriver is necessary to perform this procedure.



Essential tool: a pozidrive screwdriver is necessary to perform this procedure.



Essential tool: a 6mm spanner is necessary to perform this procedure.



Essential tool: a 6mm Allen key is necessary to perform this procedure.

1.3 General characteristics of the wheelchair

The Progeo® JOKER PERFORMANCE is an active ultra light rigid frame wheelchairs.

A unique wheelchair available both with extremely high resistant aluminium alloy tubing frame to increase strength and rigidity and, as option, with carbon fibre frame.

JOKER PERFORMANCE is a stylish wheelchair offering hi-tech solutions for full personalisation and is ideal for **both indoor and outdoor use**

1.4 Use



The JOKER PERFORMANCE wheelchair is self propelled which means that it can be moved manually by using the hand rims on the rear wheels. It can be used in rehab as well as in more active situations and is ideal for a wide range of users with different kinds of pathologies.

It is used to guarantee either fully independent or assisted (with an attendant) movement for a person with reduced or fully impaired movement in one or more parts of the body. As it has such a large range of accessories and configurations the wheelchair can be used in full safety both inside and outside.

Where the user is affected by particularly severe pathologies or with people who are unable to move at all on their own, an attendant is always advisable. We also discourage use over hilly, particularly soft, sandy or uneven ground, slopes exceeding the recommended gradient and acid environments.

Its compact size and structure make the JOKER PERFORMANCE wheelchair **ideal for use by both teenagers and adults.**

1.5 General advises



Before using the wheelchair we recommend that you carefully read Chapter 2.0 “Safety” and Chapter 5.0 “Using the wheelchair,” which are essential for safe use of the wheelchair

2.0 Safety



The Progeo® JOKER PERFORMANCE wheelchair is a medical device and therefore it should not be lent to other users even for short periods of time.

Making any unauthorised modifications or using unapproved parts may change the wheelchair structure and create unsafe condition as well as possible harm to the chair and occupant is forbidden.

THE MANUFACTURER WILL ACCEPT NO RESPONSIBILITY IN CASES OF NON-COMPLIANCE WITH THE INSTRUCTIONS OR RECOMMENDATIONS AS SET OUT IN THIS MANUAL AND ANY SUCH ACTIVITY WILL RESULT IN THE IMMEDIATE CANCELLATION OF THE MANUFACTURER'S WARRANTY.

2.1 Movements: getting in and out of the wheelchair



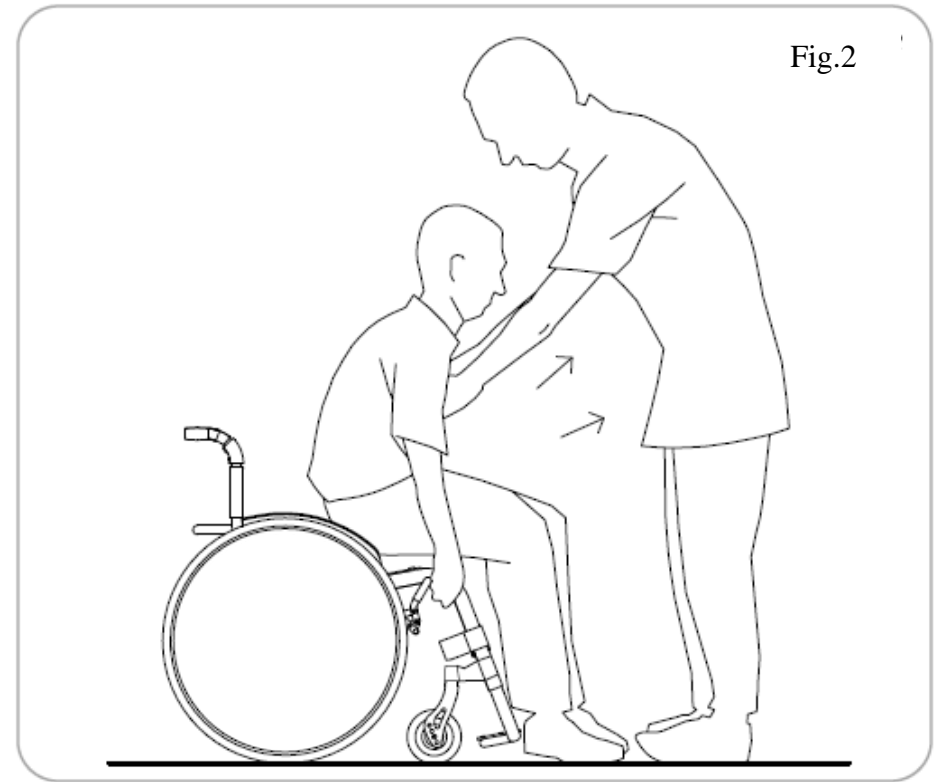
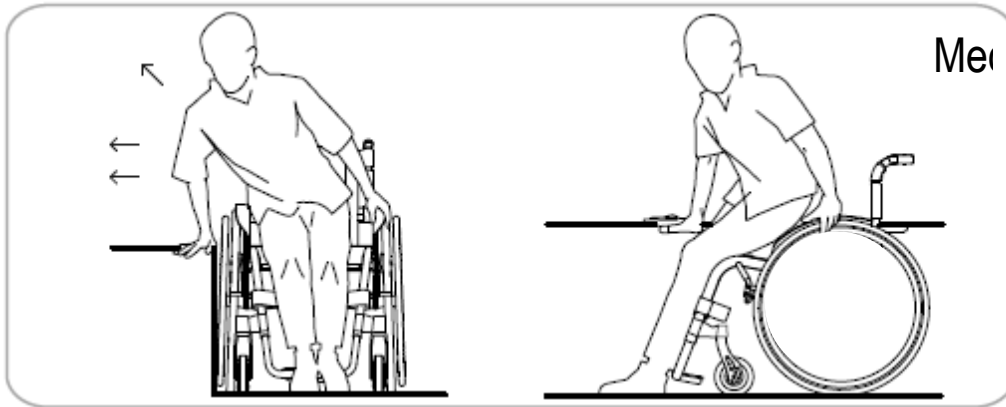
While getting into or out of the wheelchair do not place your feet on the footplate. This could result in the wheelchair tipping up, possibly causing harm both to the chair and to the occupant.

Getting in and out of the wheelchair must always be done with extreme care and caution, even by experienced users, and must be performed only after receiving instruction from specialised and fully trained personnel

If getting in and out of the wheelchair is difficult an attendant should be present. All of these actions should in any case be performed based on your particular pathology and therefore on your own level of independence

The general rules to respect while getting in or out of the wheelchair safely are:

- ❖ Ensure the wheelchair is parked on a solid, flat or regular surface. Do not get in or out of the wheelchair while on hills or uneven ground which could render the wheelchair unstable and cause the occupant to fall and/or the wheelchair to overbalance.
- ❖ The brakes should be engaged (see chapter 5.6 “Using the brakes”)
- ❖ Get your feet off the footplate (see chapter 2.9 “Footplate”) when getting out, and bring them close to the footplate when getting in.
- ❖ Lean on the wheelchair and where possible on a stable object nearby. Use the force of your arms to raise and move your body (see fig. 1) In cases where the occupant is not able to perform this movement alone, or if the movement is to be performed on an uneven surface, an attendant should be present (see fig. 2)



While getting in or out of the wheelchair never lean or sit on the clothes protector. It could bend or break, possibly resulting in injury.



If your wheelchair is equipped with swing away of the chair is recommended to be swung backward (see chapter 7.1 “Height adjustment removable swing away armrests”)

2.2 Starting to use your wheelchair

Finding the centre of gravity - the point at which the wheelchair will tip back

Your ability to control and safely tip the wheelchair depends mainly on your seating position and the location of the centre of gravity in respect to the rear wheels.

The JOKER PERFORMANCE model allows you to adjust the position of the rear wheels (see chapter 6.4 “Adjustment of the rear wheels”).



Remember that every adjustment to the rear wheels affects the wheelchair's stability and could therefore increase the possibility of overbalancing. The correct positioning of the rear wheels depends on many factors, among them: the occupant's weight, type of disability and ability to manoeuvre the wheelchair. The manufacturer will supply the wheelchair with the rear wheels positioned according to instructions given on the original order form.



Finding the point at which the chair will safely tip back requires the presence of an attendant who must be standing behind the wheelchair ready to prevent it from overbalancing.

In order to find the point at which the chair will easily tip back and, consequently, the range within which it is safe to manoeuvre the chair, proceed in the follows (see fig. 3):

- ❖ You are sitting on your chair. hold the hand rims on the rear wheels firmly.
- ❖ Then, move the hand rims slightly backwards and while moving your weight backwards, push the hand rims forward with a jerk and the front of the chair will rise.
- ❖ At this point, by moving your body gently backwards and

forwards while moving the rear wheel backwards and forwards using the hand rims, it will be possible to find the centre of gravity and the point at which the chair will safely be controlled.

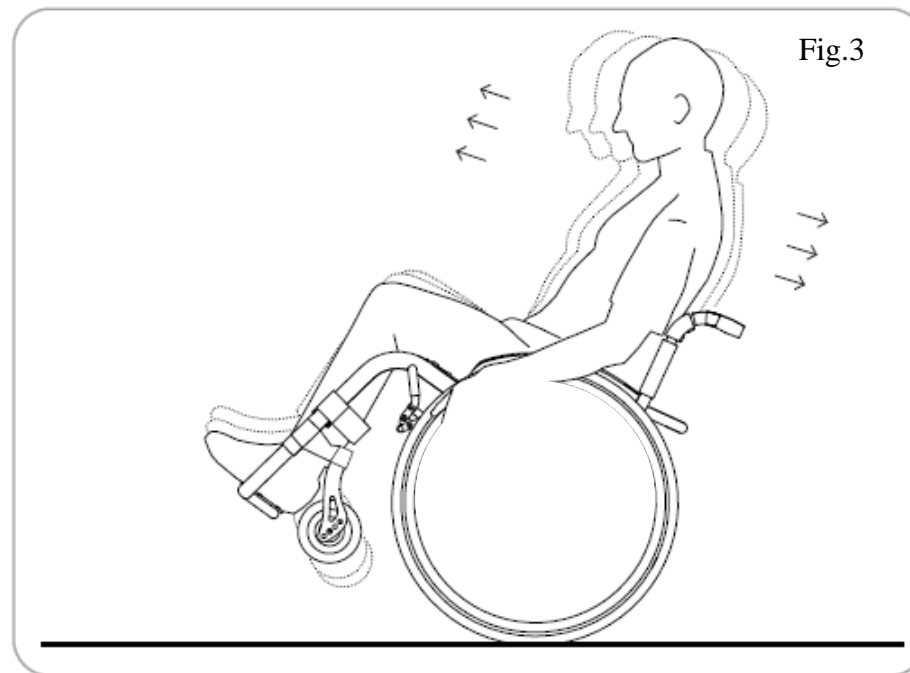


Fig.3



IN ORDER TO PREVENT THE WHEELCHAIR FROM OVERBALANCING DURING NORMAL USE WE RECOMMEND MOUNTING ANTI TIPPER WHEELS WHICH ARE SUPPLIED AS AN ACCESSORY TO THIS MODEL.

(see chapter 7.3 “Anti-tip wheels”)

2.3 Dealing with obstacles: stairs and steps



While getting over obstacles such as stairs and steps, approach the obstacle at a moderate speed



Never attempt to go over steps or other obstacles that are over 20cm (6 inches) height.

If particularly difficult obstacles are encountered an attendant should always be present at the back of the wheelchair in order to ensure complete safety.

Going over obstacles alone



Before attempting to go down a step or over any kind of general obstacle alone (without the presence of an attendant), you will need to have control over your wheelchair and know how to tip it while maintaining your balance over the rear wheels (see chapter 2.2 “Starting to use your wheelchair”).

Going down steps on your own (see fig. 4)

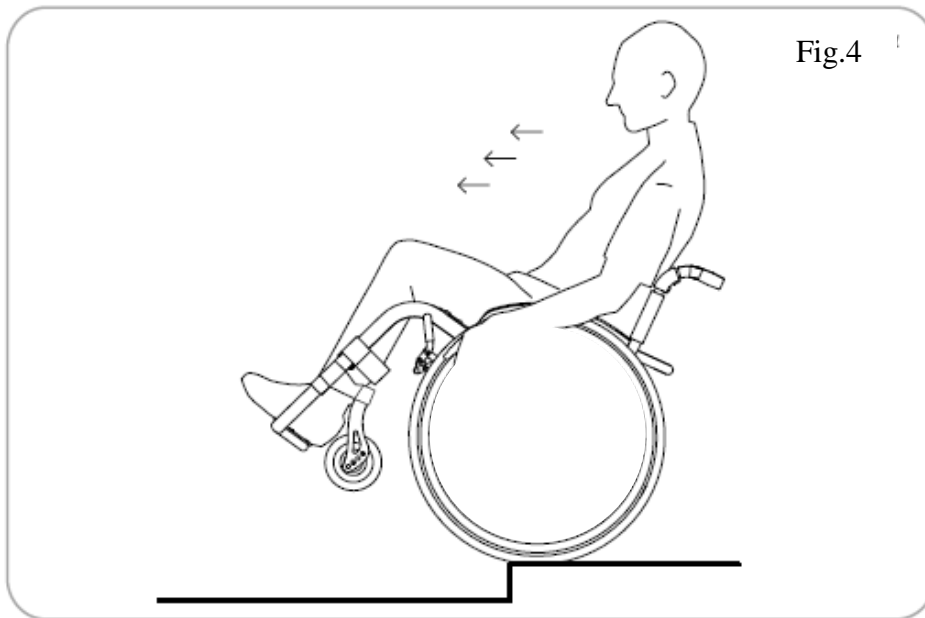


Fig.4

- ❖ Bring the wheelchair right up to the leading edge of the obstacle .
- ❖ Raise the front wheels by tilting the wheelchair while maintaining balance.
- ❖ Move the rear wheels carefully down to the obstacle; during this phase hold the handrails to control the descent .
- ❖ Once the rear wheels have descended the obstacle, tilt the wheelchair forward until the front wheels touch the ground again.

Going up a step alone (see fig. 5)

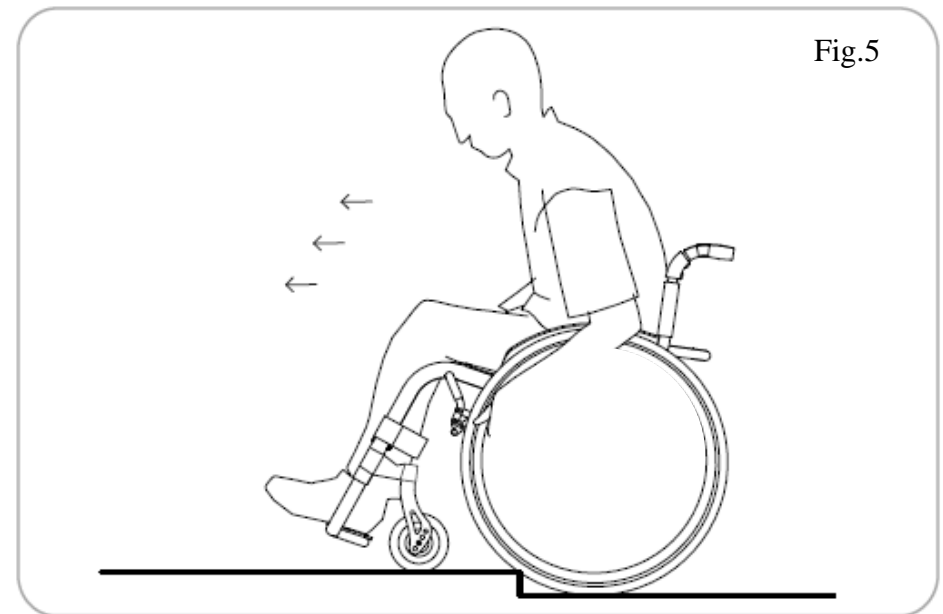
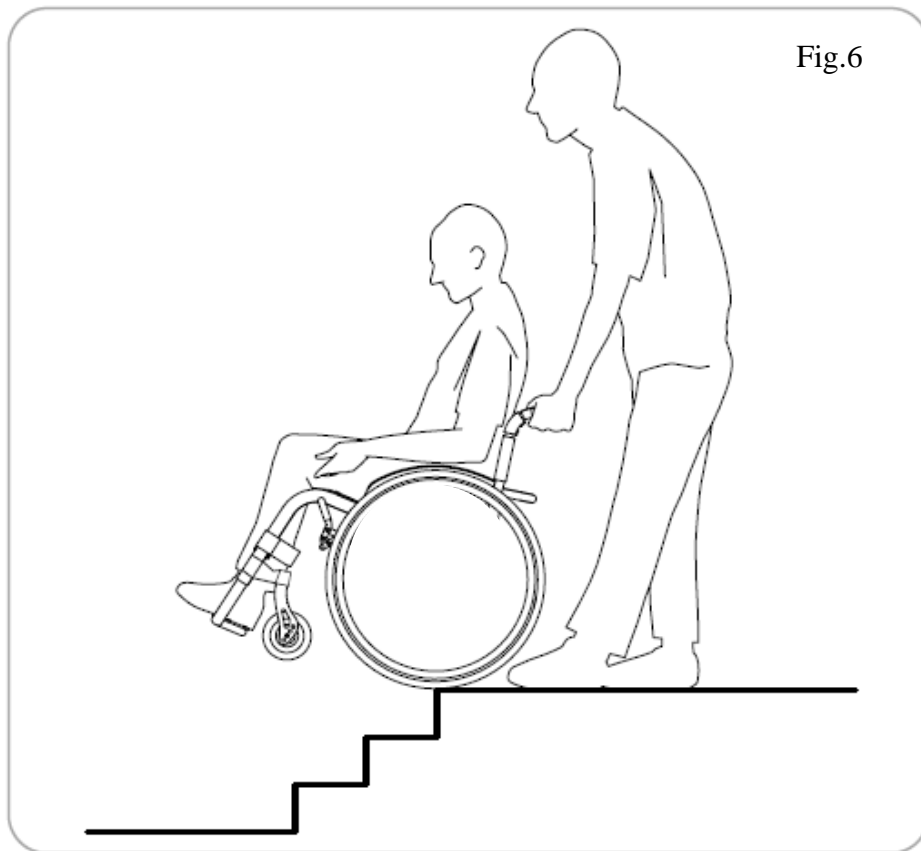


Fig.5

- ❖ Bring the wheelchair right up to the leading edge of the obstacle .
- ❖ Raise the front wheels and tip the chair back while maintaining balance
- ❖ Using the handrails, carefully move the rear wheels forwards until they touch the edge of the step.

- ❖ Tip the wheelchair forward until the front wheels are on top of the obstacle.
- ❖ Lean forward in the chair so that the rear of the chair is lighter.
- ❖ Hold the handrails tightly and move the rear wheels forwards bringing them over the top of the obstacle.

Going down stairs with an attendant (see fig. 6)



- ❖ Take the wheelchair right up to the obstacle so that the front wheels are as close as possible to it.
- ❖ Grip the rear handles tightly and push down in order to raise the front of the wheelchair.
- ❖ Keep the wheelchair in this position and accompany it down the stairs one step at a time. The occupant seated in the chair can assist the attendant by using the hand rims.
- ❖ At the end of the descent, tip the chair forward so that the front wheels are once again touching the ground.



In order to help the attendant to tilt the chair we advise the use of the tip-back assistance device which is supplied as an accessory to this model (see chapter 7.4 “Tipping aid”).

Going up steps with an attendant (see fig. 6)

- ❖ Move backwards towards the step so that the rear wheels of the wheelchair touch it .
- ❖ Grip the rear handles of the wheelchair tightly and pull hard while keeping the wheelchair tilted (with the front wheels raised in order to prevent the occupant from slipping out of the chair) until the rear wheels are over the step.
- ❖ Keeping the wheelchair tilted, pull it away from the step enough to allow the front wheels to touch the same level ground.

2.4 Dealing with obstacles: slopes or inclines

Going uphill (see fig. 7)

Moving up any kind of slope should be done with extreme care. The occupant must move at speed by generating force on the rear wheel while at the same time maintaining control over the wheelchair.



We recommend that occupants who have not yet completely mastered safe use of the chair should mount the anti-tip system which is supplied as an accessory to this model and which is useful for preventing the chair from tipping over backwards (see chapter 7.3 “anti-tip wheels”).

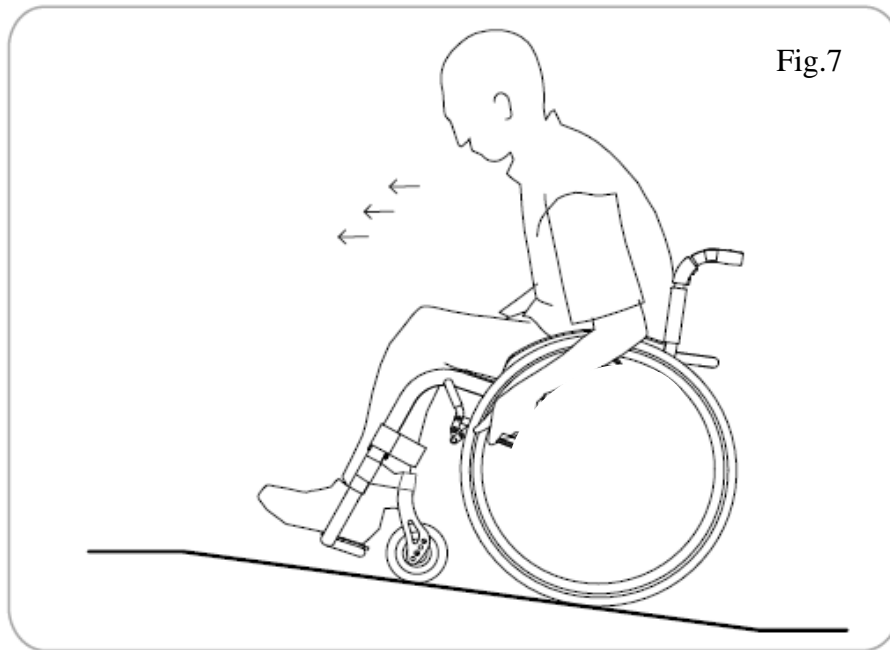


Fig.7

- ❖ Lean forwards and keep your weight forward in the chair in order to prevent the wheelchair from tipping over backwards.
- ❖ Hold the rear hand rims tightly.
- ❖ Move the wheelchair hard up the slope whilst ensuring that you move smoothly and fluidly. Do not move your upper body backwards and forwards in the chair.



The maximum gradient that can be attempted in complete safety is 6% (3°).

Going downhill (see fig. 8)

In order to go downhill safely, the occupant has to keep constant, controlled speed and direction over the entire slope.

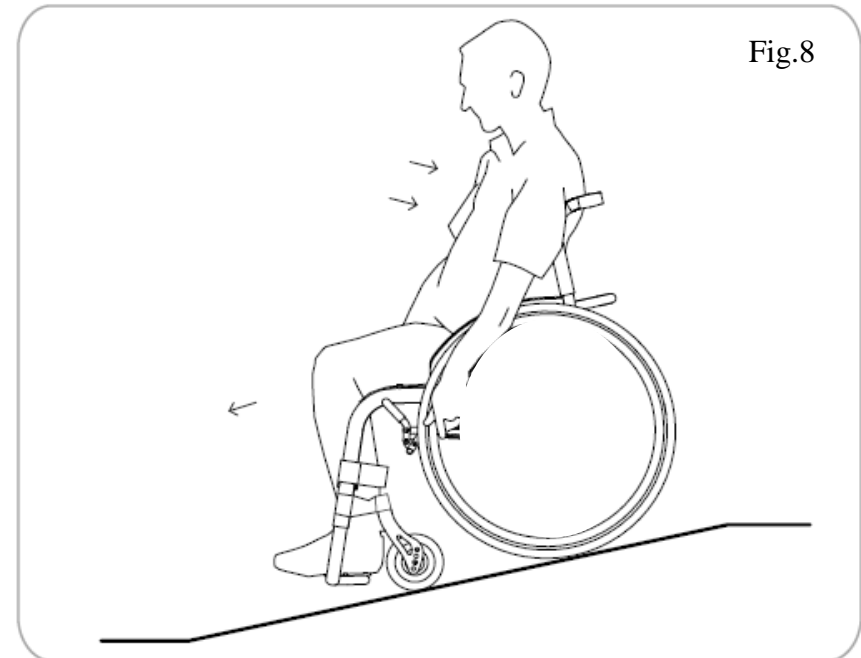


Fig.8

- ❖ Approach the slope at a moderate speed
- ❖ Keep your weight backwards in the chair to avoid slipping out.
- ❖ Hold on to the hand rims on the rear wheels and allow them to slide slowly through your hands.
- ❖ The occupant should be able to stop the wheelchair at any time simply by blocking the motion of the handrail.

2.5 Ensuring stability

You will encounter situations which will require you to lean out of the wheelchair. These apparently simple movements could, if not performed with care, result in a loss of stability and in possible overbalancing of the chair.

In order to gain the maximum control over your wheelchair the following list of common situations is reported. We ask you to pay particular attention to these guidelines so as to maintain balance and stability

Leaning forwards (see fig. 9)

- ❖ Ensure that the front wheels of the chair are pointing forwards. In order to do this, move the chair forwards and then backwards.
- ❖ Put on the brakes in order to prevent the chair from moving suddenly during the movement.
- ❖ Lean forward in such a way that your upper body does not move beyond the front wheels at any time. Moving the weight of the body excessively forward may cause the wheelchair to tip up onto the front wheels and overbalance possibly causing harm both to the chair and the occupant.
- ❖ In order to ensure greater stability the occupant should hold on to the wheelchair with his or her free hand.

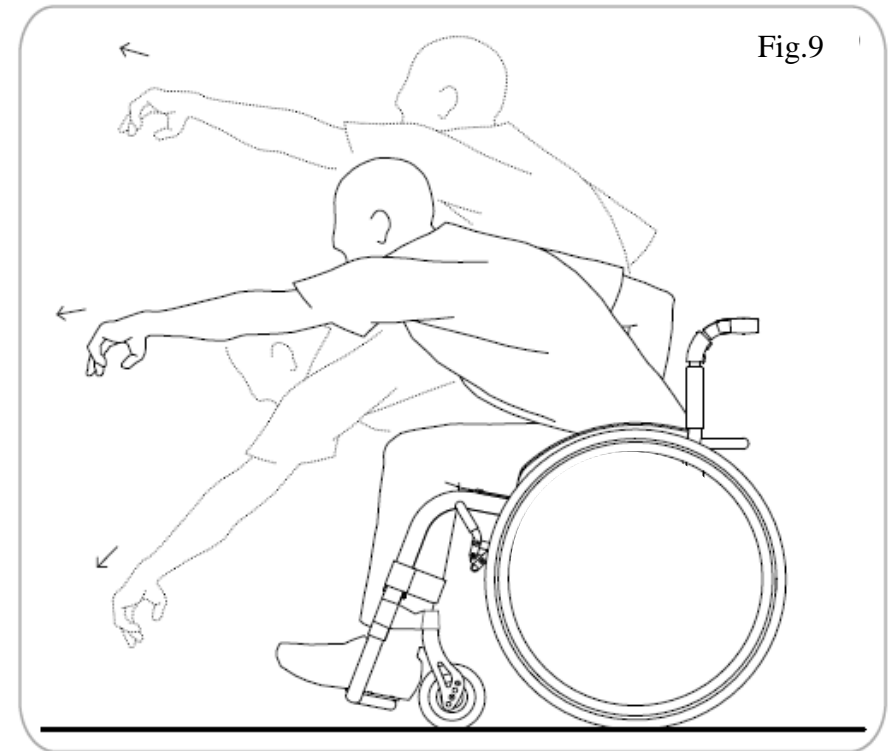


Fig.9



Do not lean too far forward; you may fall out of the chair

Do not move forward by sliding your pelvis across the seat cushion in order to reach objects that are too far away. The chair could overbalance.

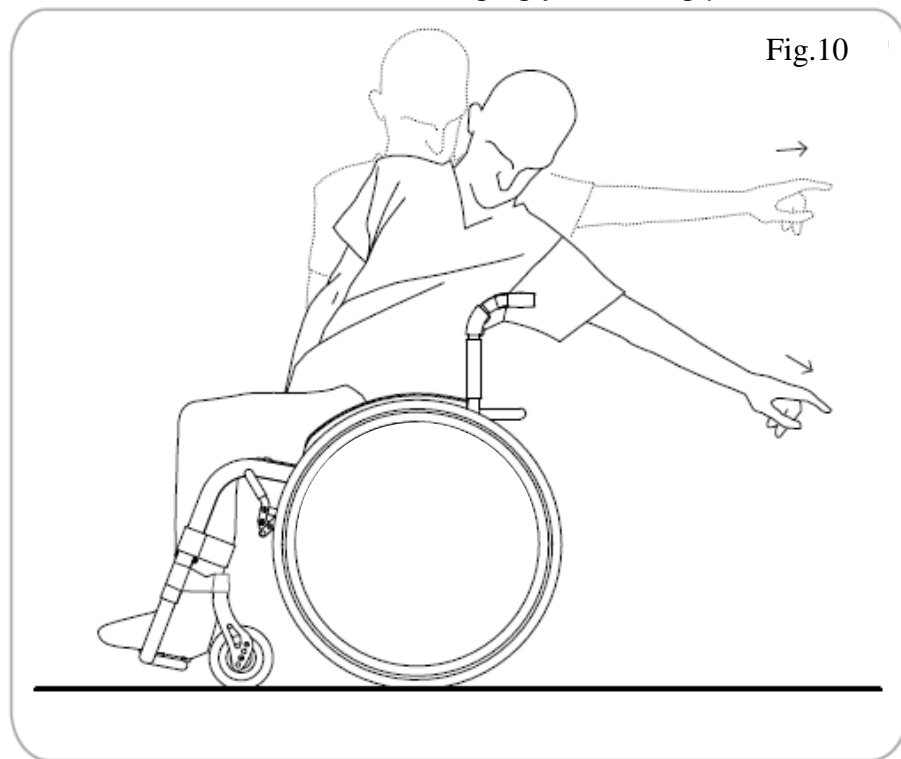


Never hold on to the backrest in order to ensure the stability or to help your movement. The backrest could close and cause severe damages to the end user.

Leaning backwards (see fig.10)

Ensure that the front wheels of the chair are pointing forward

- ❖ move the wheelchair forwards and then backwards.
- ❖ do not engage the brakes.
- ❖ lean backwards without changing your sitting position.

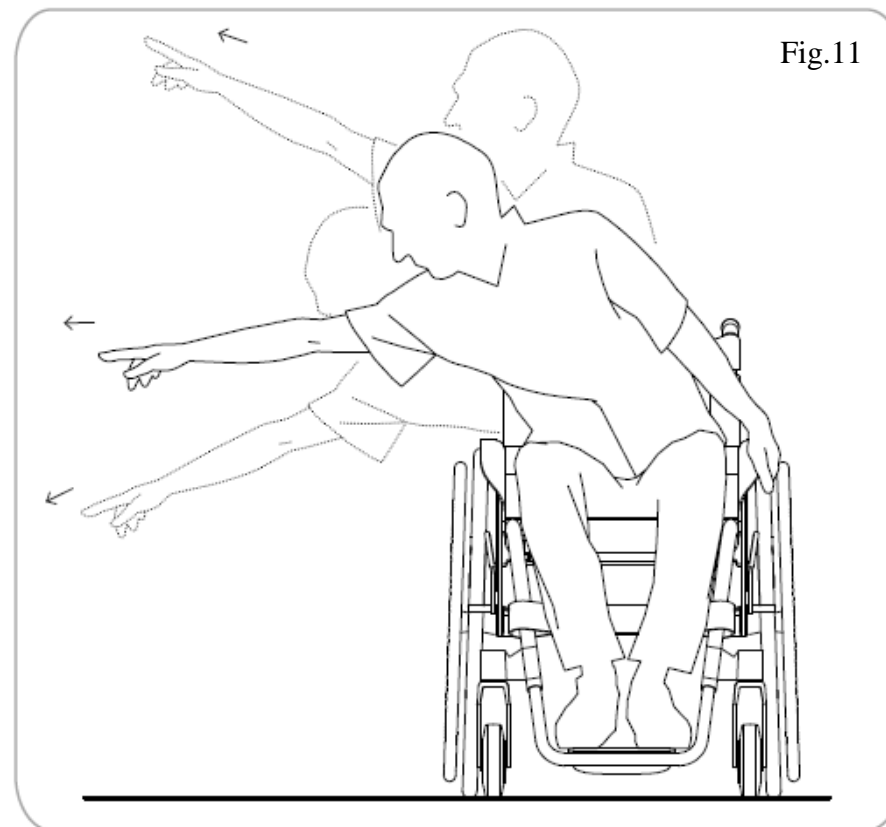


Do not lean too far back over the backrest, the wheelchair could overbalance

Leaning out sideward (see fig. 11)

- ❖ Do not move your upper body beyond the rear wheel as the wheelchair could overbalance .

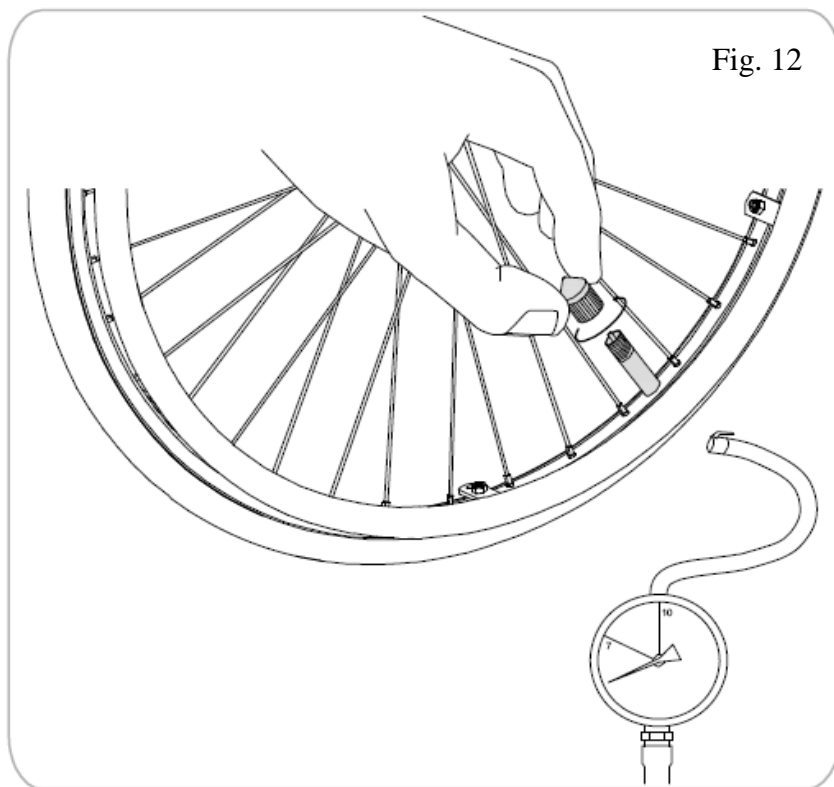
- ❖ With your free hand, for greater safety and stability, hold on to the wheelchair



2.6 Tyre pressure

In order to guarantee consistent, precise running and braking, it is necessary to ensure that the tyres are correctly inflated.

- ❖ Remove the plastic valve cover on the valve that is found on the rim of the rear wheel (see fig.12)
- ❖ Use a compressor to bring the pressure to the correct level (see table 1).
- ❖ Screw up the plastic valve cover



Check the tyre pressures weekly using “table 1” as a guide.

Incorrect inflation of the tyres (especially if too low) causes incorrect functioning of the brakes and the wheelchair may not stop (see chapter 6.8 “*Brake adjustment*”).

A correct tyre pressure makes the wheelchair much more fluent and easier to move and control

To inflate the tyres always use a compressor with a gauge.



Do not use hand pumps or other systems.

Do not exceed the pressure indicated in the pressure table as the inner tube or the tyre may get damaged.

Pay particular attention to type of tyre fitted, as shown in “table 1”.

Table 1 **Rear Wheel Tyre Pressure**

TYRE	PRESSURE	
High Pressure	7 BAR	
High pressure profile	7 BAR	
Marathon Plus	10 BAR	
Anti puncture	Does not require inflation	



The anti puncture tyres does not require inflation. This type of tyre needs less maintenance and eliminates the costs and inconvenience due to repair or replacement of the inner tube.

However, during normal use, they are less fluent than traditional tyres or tubulars

2.7 Quick release axles

After each procedure carried out on the rear wheels, ensure that the quick release axles are well inserted (see fig.13) (see chapter 5.5 “*Quick release rear wheels*”).



A check up of the quick release axles is a periodic procedure the user should carry out .



Check the correct functioning of the quick release axle without any person sitting on the chair.

Disengage the brakes

With one hand on the backrest tube, lift the chair a few centimetres on the side where the rear wheel will be removed.

Take hold of the wheel hub with your fingers laced through one or two spokes and pull and push hard (as indicated by the arrow) in order to ensure that the wheel is properly fastened



If the axles are not correctly placed and fastened they may work loose during normal use and could result in the wheelchair overbalancing and possibly causing injury.

2.8 Backrest locking system

After opening the backrest (see chapter 5.3 “Opening the backrest”) always check carefully that the bolt “A” is properly inserted in the hole of the fixing plate “S” on both sides.

An audible click indicates that the backrest has been successfully and securely opened (see fig.14).

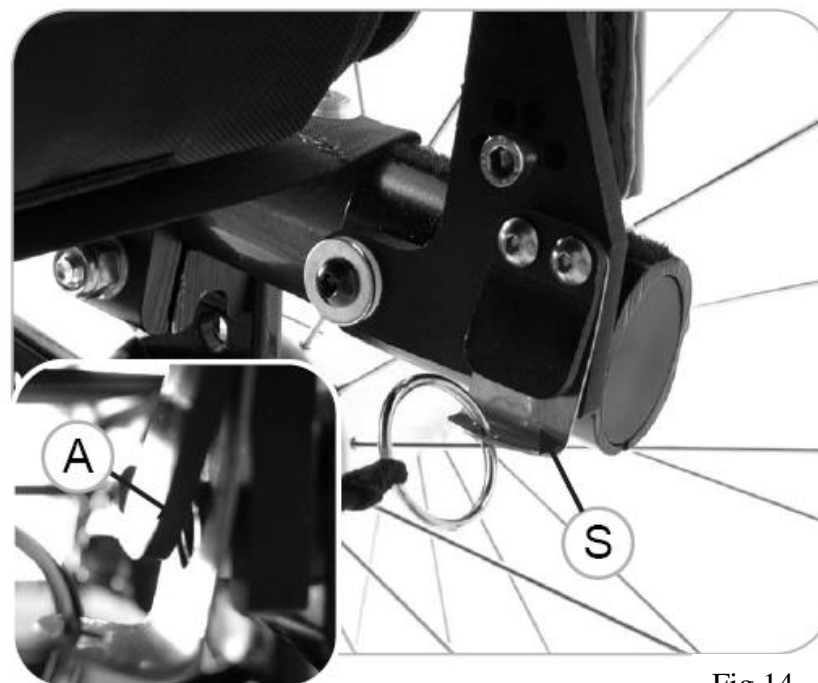


Fig.14

2.9 Footplate

There are three kind of footplates available for the model JOKER PERFORMANCE :

- aluminium footplate (std.) adjustable in angle (fig.15a);
- carbon fibre footplate adjustable in angle (fig. 15b);
- carbon fibre footplate with fixed inclination (fig.15c).



When moving in and out of the wheelchair it is recommended not to keep your feet on the footplate; an excessive weight on the footplate may result in it breaking and could in turn cause harm to the user.



The two screws “A” at the bottom of the carbon fibre footplate (see fig. 15c) allow its adjustment (see chapter 6.7 “Footplate adjustment”) and prevent the carbon fibre plate from possible damages caused by contact with the ground. We recommend periodic inspection of the two screws “A”; if they are worn-out they should be replaced.

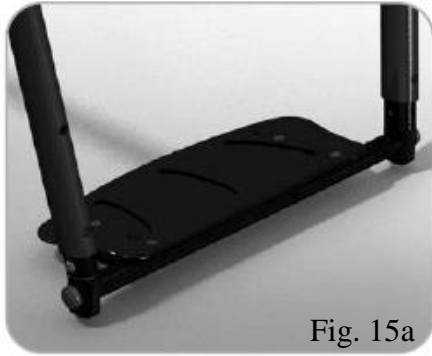


Fig. 15a



Fig. 15b



Fig. 15c

On their upper part all these footplates are particularly designed to offer greater rigidity and, at the same time, to reduce and control the possible sliding off of the feet guiding them towards the middle of the footplate so as to keep them close to each other.



To prevent the feet from sliding off backwards, we recommend the use of the calf strap provided as standard in this model (see chapter 2.10 “Calf strap”).

2.10 Calf strap

In some cases, depending on the diameter of the front wheels and the width of the wheelchair, the front wheel, as it rotates for turns etc may come into contact with the occupant's heel.



Fig. 16

In order to avoid any such contact (which could result in the chair overbalancing), the chair is supplied with a calf restraining belt **which should be adjusted so that the occupant's feet do not come into contact with the front wheels of the chair at any time** (see fig. 16).

The use of the calf restraints on the JOKER PERFORMANCE model is very important to prevent the user's feet from slipping back off the footplate.

2.11 Tubular armrests

The model JOKER PERFORMANCE can be provided with tubular armrests (figure 17).



The armrests are considered as accessory and must therefore be ordered separately. They are particularly useful for people with reduced mobility of their hands or arms and for those with limited upper body movement who require better stability when sitting on the wheelchair.



The armrests must not be used to carry the wheelchair or as a support.



The tubular armrests are only locked when they are in their standard position for use (facing forwards and parallel with the sides of the wheelchair) (see fig. 17). **In all other positions they can turn and for this reason always ensure that they are correctly positioned before use** (see chapter 7.1 “Height adjustable, removable, swing away armrests”).

If this instruction is ignored the wheelchair or the user may overbalance.



Do not use the armrest as hand hold to raise the wheelchair; this may cause the armrests to come off from their supports and in turn cause harm to the user and to the wheelchair



Do not use the armrest as supports when making transfer. We indeed recommend to swing the armrest away on the side of the transfer so as to help the operation.

2.12 Fasteners

After each maintenance cycle ensure that all nuts, bolts and screws are correctly tightened as they may loosen during normal daily use.



We recommend checking that all hardware is correctly tightened at least once a month. If necessary consult an authorized PROGEO dealer or technician.

2.13 Wheelchair lifetime

Under normal daily use the PROGEO® wheelchair has a lifetime of 5 years provided that it receives careful maintenance at the correct intervals.

The lifetime will considerably increased if the wheelchair is used only indoors or not on a daily basis.

2.14 Avoiding accidents

Movements

- ❖ Avoid sudden, jerky movements during use of the wheelchair as this could cause it to overbalance.
- ❖ If obstacles are run into, avoid sudden movements (such as abrupt braking).
- ❖ The risk of skidding increase on irregular or damp ground.
- ❖ Going over obstacles as steps and ramps has to be done carefully (ask an assistant for help).
- ❖ For greater safety, when moving across inclined or potentially dangerous terrains it is recommended the presence of an attendant behind the wheelchair.

Speed

Always adjust your speed with relation to the type of terrain and conditions. As a general rule, we advise a constant, regular speed avoiding sudden accelerations or changes in direction.

Using the brakes

The parking brakes have been designed to hold the wheelchair stable when it is stationary.



For safety reasons we do not recommend using the parking brakes while the wheelchair is in motion (see chapter 6.8 “*Brake adjustment*”)

When using the brakes a great care should be taken to avoid injury to the hands or fingers.

3.0 Loading the wheelchair

There is no single best way to load the wheelchair in a vehicle.

The kind and level of the patient disability (his/her ability to control his/her upper body, arm and hand movements), physical strength (for an old person or a child the operation may result too hard) and the kind of vehicle that will be used are all factors.

It is clear that all these factors are too many to give a single precise procedure to fit all cases , therefore this information has to be taken as general advices.



Perform all car loading activities with extreme care and only after receiving instruction from specialised service personnel with our authorised dealers.

If these procedures seem to be unsafe or difficult we recommend asking an attendant for help.



Never transport in a vehicle an occupant seated on the wheelchair as these wheelchairs are not designed for this kind of use.

If the occupant has to be transported while seated in the chair you are reminded that the wheelchair in its standard configuration is not supplied with seatbelts.

Any safety belts for vehicle transport must be installed by specialised personnel.

Transport with an attendant

(see fig. 18-19-20-21)

In cases where the physical limitations of the occupant prevent him/her from moving and loading the wheelchair into the car on his/her own, the help of an attendant will be required.

This semi folding wheelchair has specifically been designed to be lightweight and manageable in order to guarantee ease of movement even for those with limited strength and mobility.

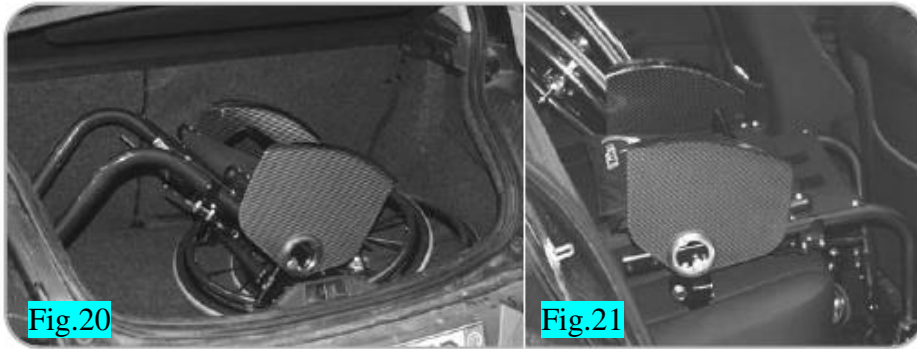
- ❖ Release the brakes and pull the rear wheels out (see Chapter 5.5 “*Quick release rear wheels*”) (see fig. 18).
- ❖ Fold the backrest (see chapter 5.2 “*Closing the backrest*”).
- ❖ Take hold of the chair with one hand on the front frame and the other hand on the backrest handle so as to balance the weight of the wheelchair and make lifting it easier.
- ❖ Load the wheelchair into the car. Then load the rear wheels (see fig.19).
- ❖ The reduced size of the folded chair allows it to be loaded into the boot of the car (fig. 20) or between the front and rear seats (see fig. 21).



Fig.18



Fig.19



Loading the wheelchair without assistance (see fig. 22-23-24)

The following actions have been designed for people with good control of their upper body, arms and hands as well as sufficient strength to perform the movements in complete safety.

- ❖ Open the door on the side where you will get into the car from (eg. the driver's door), after that move the chair as close as possible to the seat.
- ❖ Engage the brakes and get into the car (see chapter 2.1 *"Movements: getting into and out of the wheelchair"*) (see fig.22).
- ❖ Once you are inside the car, release the wheelchair brakes and pull out the rear wheels (see chapter 5.5 *"Quick release rear wheels"*).
- ❖ Fold the wheelchair (see chapter 5.2 *"Closing the backrest"*) (see fig. 23).
- ❖ Take hold of the chair with one hand on the front frame and the other hand on the backrest handle so as to balance the weight of the wheelchair and make lifting it easier. Load the chair and the rear wheels into the car. (See fig. 24)



Fig.22



Fig.23



Fig.24

4.0 General description of the wheelchair parts

General description of the parts (see fig.25)



Fig. 25

- 1 Padded and breathable backrest upholstery, tension adjustable via Velcro straps.
2 Titanium backrest tube with or without handles, height adjustable every 1.5cm

- 3 Side guards with rotative adjustment system
- ABS mudguard - Carbon fibre mudguard
- 4 Seat canvas with velcro bands (to secure the seat cushion), supplied with a handy pocket for personal belongings.
- 5 Wheelchair frame
- aluminium (85°, 90°, 100°)
- carbon fibre (85°, 90°, 95°)
- 6 Adjustable Calf strap
- 7 Footplate tube with pre drilled holes every 1.5cm for height adjustment
- 8 Rear wheel tyres:
- high pressure - high pressure profile
- anti-puncture tyre - solid tyre
- 9 Hand rims:
- aluminium - chromed steel
- titanium - rubber "Ultra grepp"
- PU "Max grepp" - Rubber/aluminium "Ergo-Para"
- Aluminium with rubber band "Dual grepp"
- Quad
- Silicon anti-slip cover for standard rim
- 10 Quick release axle.
- 11 Rear wheel adjustment plate.
- 12 Backrest frame
- 13 Backrest folding and inclination adjustment support.
- 14 Casters:
- 3" sport - hard solid rubber
- 4" PU soft, solid rubber
- 4" active with aluminium alloy wheels
- 5" PU soft, solid rubber
- 6" pneumatic
- 6" PU with soft, solid rubber
- 15 Front fork
- 16 Fork support with bearing and integrated spirit level
- 17 Brakes
- bent lever (push or pull to brake)
- straight lever (pull to brake)
- with removable extended lever
- sport (under the seat)
- 18 Footplate:
- with aluminium plate, angle and position adjustable
- with carbon fibre plate, angle and position adjustable
- with carbon fibre, height adjustable

5.0 Using the wheelchair

5.1 Use

The JOKER PERFORMANCE is a ultra light rigid frame active wheelchair.

This is the only wheelchair available which uses crush resistant aluminium alloy tubing to increase the strength and rigidity of the wheelchair. Because of its characteristics of reduced weight, adaptability (configuration) and smoothness this wheelchair is ideal for daily use by occupants with severe pathologies (with limited movement in the legs, arms and upper body) as well as more active occupants (able to perform activities without assistance). The wheelchair has been designed for **indoor** (flats, gyms, schools, libraries, etc.) as well as **outdoor** (roadways, pavements, courtyards, etc...) use.



During the day-to-day use of the wheelchair the occupant could encounter rough or irregular grounds (such as gravel, holes, etc) or slippery terrain (wet, sandy, dusty or oily ground etc).

In these cases and in all other cases where the use of the wheelchair could be difficult or even dangerous (both for the occupant and for the wheelchair itself), we recommend using extreme care and attention combined with smooth motion avoiding sudden braking or acceleration (see chapter 2.0 "safety").

In case of extreme difficulty or danger it is always advisable to have the help of an assistant

In order to prevent overbalancing, the maximum gradient recommended for this wheelchair is 3° (6%) (see chapter 2.4 "Dealing with slopes or inclines").

The maximum weight that the Joker model is safely able to carry is 140kg.

5.2 Closing the backrest



Fig.26



When folding/unfolding the backrest, always take great care not to get your finger caught between the back support and the side guard (fig.26).

While performing this operation hold the wheelchair by its handles or by the horizontal bar across the back support.

- ❖ Remove the seat cushion or other soft support from the seat or back.
- ❖ Take hold of the nylon string "A" at the rear of the back support

(figure 26) and pull it upwards.

- ❖ With your other hand take hold of the back support by the handles and push it forwards while keeping the string “A” pulled up.

5.3 Opening the backrest (figure 27)

- ❖ Take a firm hold of the back support either by its handles or the rear support bar.
- ❖ Pull the back support up until an audible click indicates that the backrest support is correctly and safely in place.



Before using the wheelchair always ensure that the back support is correctly in place (see chapter 2.8 “Backrest locking system”).



Fig. 27

5.4 Lifting the wheelchair (figure 28)



The wheelchair can be lifted and transported in many different ways. However it is advisable to fold the wheelchair down to facilitate these actions.

In order to reduce weight, remove the rear wheels (see chapter 5.5 “Quick release rear wheels”) and close the backrest (see chapter 5.2 “Closing the backrest”). In order to have greater balance while lifting the wheelchair, take hold of it on the front frame and on the backrest (see figure 28).



Fig. 28

5.5 Quick release rear wheels (figure 29)

On this model it is possible to remove the rear wheels quickly and easily, thereby reducing the size of the wheelchair. This can be particularly useful when the wheelchair needs to be loaded into a car or place for storage or driven through a narrow passageway if the wheelchair is provided with transit wheels (see chapter 7.2 “*Transit wheels*”).



Removing the wheel

- ❖ Release the brakes
- ❖ To make this procedure easier, slightly raise the wheel using the handles on the back.
- ❖ Take hold of the wheel by the spokes close to the axel bush, push the release button in and, without letting go, pull the entire wheel outwards (fig. 29).

Replacing the wheel

- ❖ Release the brakes

- ❖ To make this procedure easier, slightly raise the wheel using the handles on the back.
- ❖ Take hold of the wheel by its spokes close to the axel bush, push in the release button and, without letting go, get the axel in correctly.
- ❖ In order to lock the wheel, let go of the release button (a single audible click indicates that the wheel has been placed correctly).



Removing and replacing the wheel must always be carried out with the brakes released.

Ensure that the quick-release axels are completely locked in place. Check this by taking hold of the wheel at the spokes close to the axel bush and pulling firmly outwards. (see chapter 2.7 “*Quick release axles*”)

5.6 Using the brakes (figures 30, 30a, 30b)

Engaging the brakes

Push the lever forwards with “*push-on brakes*” fig. 30/b.
Pull the lever backwards if “*pull-on brakes*” are fitted fig. 30/a.

Releasing the brakes

Pull the lever backwards with “*push-on brakes*” fig. 30/b.
Push the lever forwards if “*pull-on brakes*” are fitted fig. 30/a.



Take care not to injure your hands and fingers when operating the brakes.



The optimum position for the brake with respect to the tyre is about 0.5 cm between the tyre and the brake rod (0.6 cm if puncture-proof tyres are fitted) (see chapter 6.8 “Brakes adjustment”).

The brake works by means of a lever which acts directly on the tyre. For this reason the effectiveness of the braking system depends on the tyre being correctly inflated. We highly recommend checking tyre pressures at regular intervals. (see chapter 2.6 “Tyre pressures”).



Fig. 30



The brake is a safety feature and must not be used while the wheelchair is moving as this could cause the wheelchair to overturn with possible injury to the occupant.

5.7 Safety belt and harness (figures 31-32)

Both the waist belt (figure 31) and the harness (figure 32) are accessories to this model and must therefore be ordered separately. Both of these belt systems are designed to offer greater security and stability to the occupant while seated in the chair.



Both the waist belt and harness system are of particular use to occupants with little control of their upper body and who require extra support in order to be held securely in the seat during use.

The waist belt (figure 31) holds the occupant in the chair around the waist and leaves the upper body free for movement. The waist belt is fastened to the wheelchair with two anchorage points at the back of the frame (figure 31).



Fig.31

The harness system (figure 32) holds the occupant in the seat at his/her waist and shoulder. The entire upper body of the occupant is secured to the seat. It is intended for use by occupants with particularly limited mobility in the upper body. The harness system is fastened to the wheelchair with four anchorage points on the rear of the frame (figure 32).



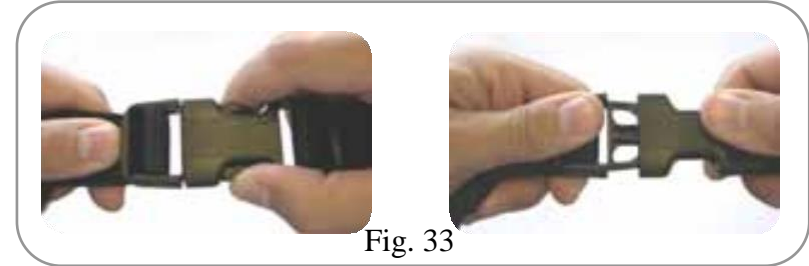
Fig.32

Using the waist belt and harness system

Using the waist belt (figures 31 – 34a) and harness system (figures 32-34b) is fairly simple.

Before sitting in the wheelchair the occupant should open the buckles by pressing on both sides of the locking buckle and pull the two parts open (figure 33).

Once seated in the chair with the belt or harness in place the occupant can close the buckles by fasten the two parts together (figure 33).



6.0 Adjustments

6.1 General

The PROGEO® JOKER PERFORMANCE wheelchair is a medical device based on the patient detailed specifications that are reported on the original order form filled in by qualified personnel.



We strongly advise users against lending the wheelchair to other users even for brief periods.

The wheelchair measurements have been set after a careful study of the requirements of the user who originally purchased it and the features of manoeuvrability, stability and durability are guaranteed only for that user.

Lending your wheelchair to others could cause it to function unsafely and tip over with potentially serious consequences both for the wheelchair and for the user.

The wheelchair supplied by RehaTEAM is tested and set up to ensure optimum performance.



It is forbidden to carry out any modifications, even when possible, to the original design. All modifications the user can make are reported on this chapter but they must only be carried out as “maintenance”, in order to re-establish the wheelchair as it was originally supplied.



Always contact RehaTEAM and its technicians for any non-standard requirements or modifications to allow them to evaluate such modifications and verify that they will not compromise the normal and safe use of the wheelchair.

Any modification of the original parameters and set up could seriously compromise the safe operation of the wheelchair causing damage both to the user and the wheelchair itself.



After every adjustment made to the wheelchair, check carefully that all parts are correctly fixed. Check that all screws and nuts are tightened and that all moving parts are functioning correctly. After any adjustment always test the wheelchair before normal use, possibly assisted by an attendant or a technician.

Have the adjustment of your wheelchair checked at least every 3 months by personnel qualified and authorized to carry out maintenance on PROGEO products.

6.2 List of parts in standard set up

Description of parts for standard set up (figure 35)

**JOKER
PERFORMANCE**

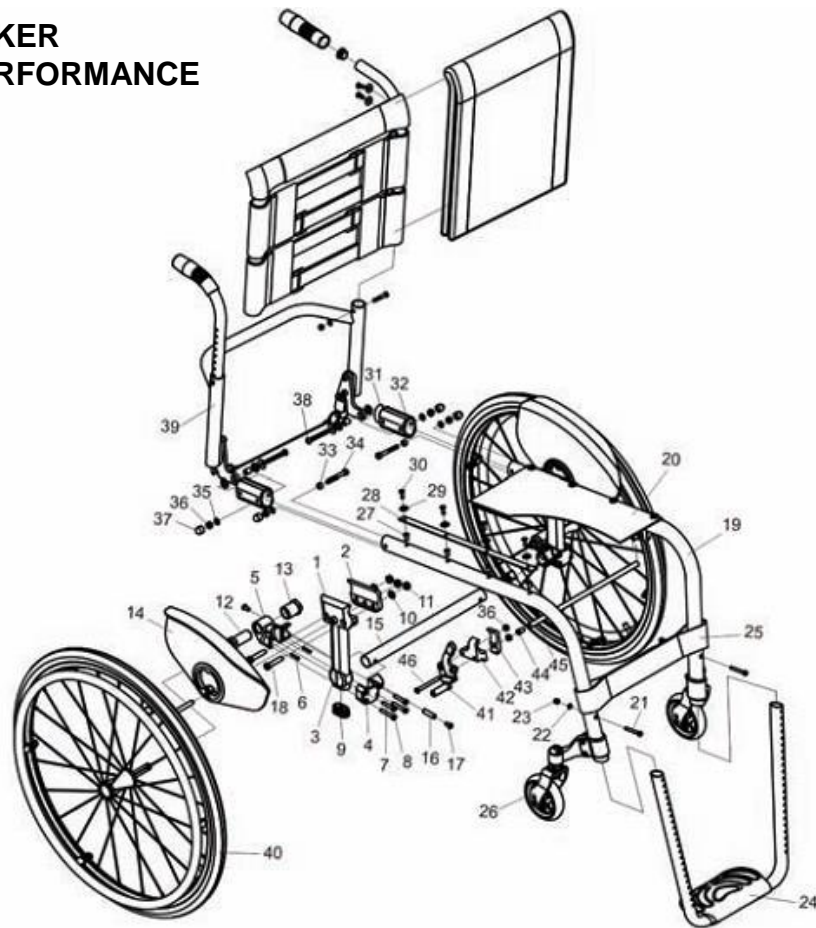


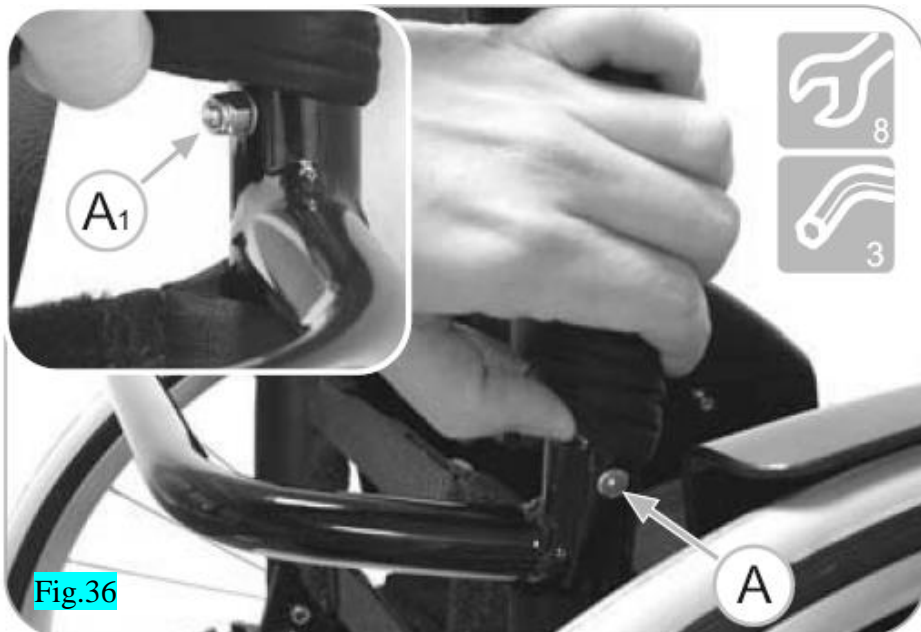
Fig. 35

Pos.	Descrizione	Quantità
1	Rear height adjustment tube and frame clamp	1dx+1sx
2	Clamp inner plate	2

3	Inner oval plate	4
4	Rear wheel clamp front plate	2
5	Rear wheel clamp rear plate	1dx+1sx
6	Pin DM5x30	4
7	Bolt TC-Ei DIN 912 inox M6x30	4
8	Bolt TC-Ei DIN 912 inox M6x35	4
9	Plastic oval cap	2
10	Washer DIN 125 inox 8x17x1.5	4
11	Lock nut DIN 985 inox M8 short	6
12	Rear wheel receiver	2
13	Threaded buckle M20x1	1dx+1sx
14	Mudguard with rotative adjustment system	2
15	Titanium rear axle DM26.67	1
16	Threaded cylinder Dm8x31 M6x1	2
17	Bolt TB-EI inox M6x12	4
18	Bolt TC-EI M8x40	4
19	Frame joker	2
20	Seat canvas	1
21	Bolt TC-EI DIN 7991 inox M5x40	2
22	Washer DIN 125 inox 5x10x1	2
23	Lock nut DIN 982 inox M5	2
24	Footplate	1
25	Calf strap and supports	1
26	Fork and caster	1dx+1sx
27	Threaded rivet M5x7x12	8
28	Seat canvas rail	2
29	Conical washer alu. 5x16x3	8
30	Bolt TPS-EI DIN 7991 inox M5x18	8
31 -32	Plastic oval cap and sleeve	2
33	Bronze buckle	2
34	Bolt TC-EI DIN 912 inox 6x45	2
35	Washer DIN 125 inox 6x12x1.5	4
36-37	Lock nut DIN 934 inox M6 short + cap	4 + 4
38	Bolt TB EI inox 6x50	2
39	Backrest	1
40	Rear wheel	2

41	Brake	1dx+1sx
42	Brake outer support	1dx+1sx
43	Brake inner support	2
44	Plastic buckle	2
45	Titanium front axle DM10x1	1
46	Bolt TPS-EI M6x55	2

6.3 Backrest height adjustment



It is possible to adjust the backrest height with 1.5cm intervals. Remove the backrest upholstery and slide up or down up the protecting sleeves along the tube until the fixing screws are visible.

- ❖ Remove screws “A” (3mm Allen key and a 8 mm spanner) and corresponding nuts and washers “A₁”.
- ❖ Repeat the procedure for both sides of the wheelchair. Raise or lower the back to the desired height.
- ❖ Replace the screws into the nearest pre-drilled holes in the frame and tighten.



When adjusting the backrest height make sure that the height on the left is the same as the height on the right.
After carrying out the adjustment make sure that the screws and nuts are securely tightened.

6.4 Rear wheel adjustment

This adjustment is very important to ensure the correct stability of the wheelchair. It is possible to adjust both the height and depth (figure 37).

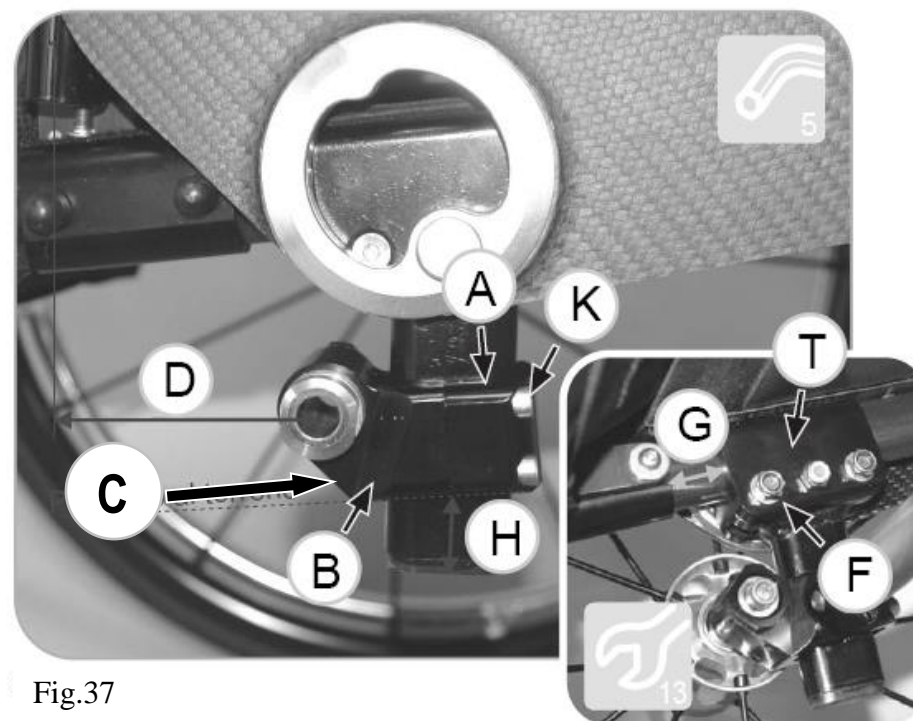


Fig.37

Height adjustment:

- ❖ loosen the four bolts “K” of both rear wheel supports (5 mm Allen key).
- ❖ Loosen the two headless bolts “C” (3mm Allen key) that are locates in the rear wheel rear plate “B”.

- ❖ Now it is possible to slide the rear wheel support along the vertical axle so as to change the rear height of the wheelchair.
- ❖ adjust the rear wheel supports to the desired height making sure that both supports are at the same height and inclination (for instance: parallel to the base of the tube the support is fixed as shown in figure 37).
- ❖ the distance “H” has to be the same for both sides
- ❖ finally, tighten the eight screws “K” properly.

Depth adjustment: it is possible to adjust the rear wheel position in depth in order to determine the point of balance of the wheelchair. The “Prudential” setting has the distance “G” equal to 1cm while 3.5cm gives a “Standard” setting; it is also possible to have the distance “G” equal to 0cm for an even more Prudential setting. To perform this operation:

- ❖ Loosen the three nuts “F” (13 mm spanner) of the frame clamp “T” on each side.
- ❖ Slide the frame forwards or backwards through the frame clamps to the desired extent
- ❖ Make sure that the distance “G” is the same for both sides.
- ❖ Finally tighten the six nuts



The adjustment of the rear wheels can cause a change to the angle of the seat. If this occurs it is extremely important to adjust the front wheel support by following the instructions in chapter 6.5 “Front wheels height and angle adjustment”.

As a general rule, moving the frame through its supports determines a change in the wheelchair setting. If the frame is moved backwards, the distance “G” (see figure 37) increases and the setting becomes more “Active” (the wheelchair tips back more easily).



Moving the frame forward, the setting becomes more “Prudential”(the wheelchair tips back with more difficulty)

With an active setting the wheelchair tips back easily, therefore we highly recommend to mount an anti tip system (see chapter 7.3 “anti tipper”)



Carry out the same adjustment for both sides making sure that the distance “G” is the same.

After adjustment, carefully replace all screws and nuts and tighten them.

6.5 Front wheels height and fork angle adjustment

The front wheels and fork can be adjusted in different ways as follows:

Angle adjustment (figure 38):



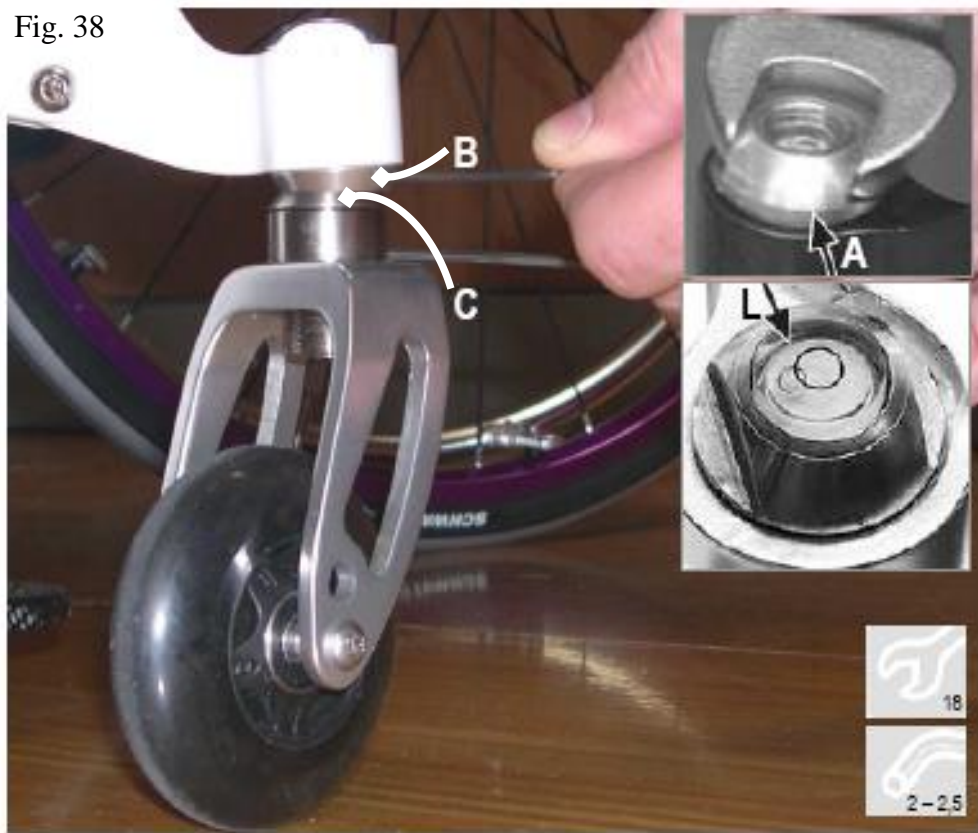
The adjustment of the angle of the front forks needs to be checked periodically in order to ensure that the axis of the fork always remains at 90° to the ground.

The adjustment or at least the inspection will in any case be necessary any time the front or the rear height is modified



Every time either the front or rear height of the seat is change, it is necessary to adjust and check the front fork angle.

Fig. 38



To carry out this operation, proceed as follows:

- ❖ Let a 2.5mm pin through the holes of ring "C" and fork axles
- ❖ Loosen the nut "A" with a 18mm spanner
- ❖ Now rotate the two rings with tilted base "B" (putting a 2mm Allen key into the hole) and "C" (that rotates with the fork).
- ❖ The combination of these two rings, also with respect to the fork support, makes the correct adjustment possible and it will be indicated by the spirit level "L" whose air bubble will have to be within the circle.

- ❖ Finally, tighten bolt "A" keeping the 2.5mm pin through hole "C" paying attention to keep the correct angle just reached.
- ❖ Repeat the same procedure on both forks.



Unscrewing off bolt "A" (figure 38) it will be possible to remove the complete fork unit.

Front height adjustment (figure 39):

This adjustment is necessary in order to obtain the correct height of the front of the wheelchair.

The front height of the wheelchair depends on the dimensions of the front wheel and on the size of the fork, but also on the position of the fork support "S". In fact, this support can slide up or down along the frame.

- ❖ Loosen the headless bolt "G" (2.5mm Allen key)
- ❖ Loosen the fixing bolts and nuts "D1" and "D2". (4mm Allen key and 10mm spanner)
- ❖ Slide the support "S" to the desired height
- ❖ Tighten all bolts and nuts.
- ❖ Repeat the same operation on both forks.

The front height can also be changed by fixing the wheel in a different pre-drilled holes on the fork.

- ❖ Remove screws "F" (using a 4 mm Allen key)
- ❖ Move the wheel to a different position
- ❖ Replace screws and tighten firmly.
- ❖ Repeat the same operation on both forks.



The adjustment of the front height becomes necessary when the front wheels are replaced with bigger or smaller ones or simply because the user wishes to modify the front height of the wheelchair.



Every time the height is adjusted it is also necessary to check and adjust the angle (see angle adjustment instruction at the beginning of this chapter)

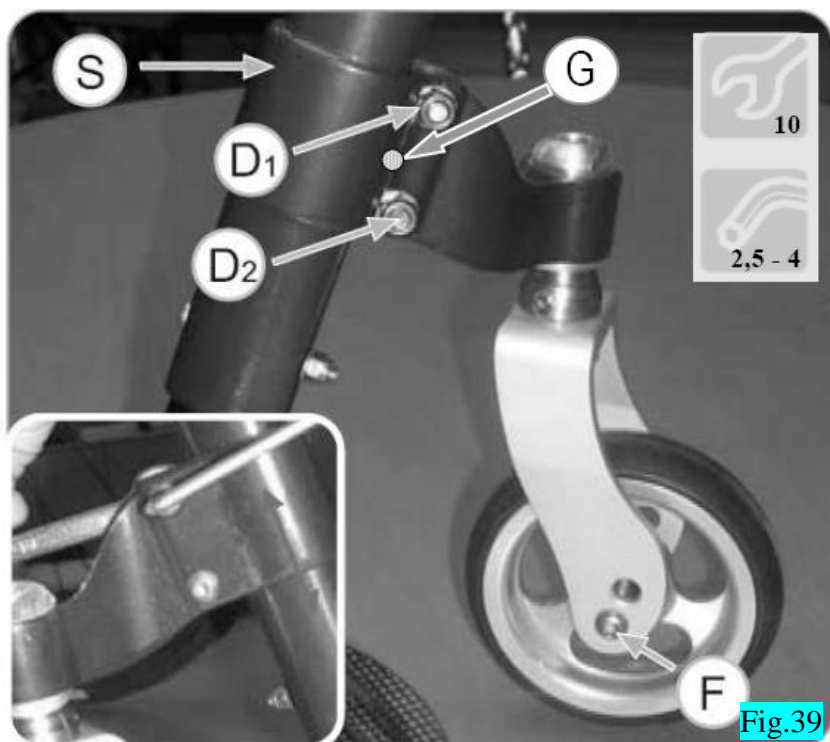


Fig.39



With carbon fiber frame do not tighten the headless bolt “G” too hard, this may cause serious damage the carbon fiber.

6.6 Backrest angle adjustment

In order to ensure the best possible position of the upper body the Joker backrest can be adjusted from an **open angle** (tilted backward) of 4° to a **closed angle** (tilted forward) of 16° (figure 40).

To adjust the backrest inclination:

- ❖ Loosen the two bolts “D” and “E” (10mm spanner)
- ❖ Adjust the support to the desired inclination
- ❖ Tighten the two bolts firmly

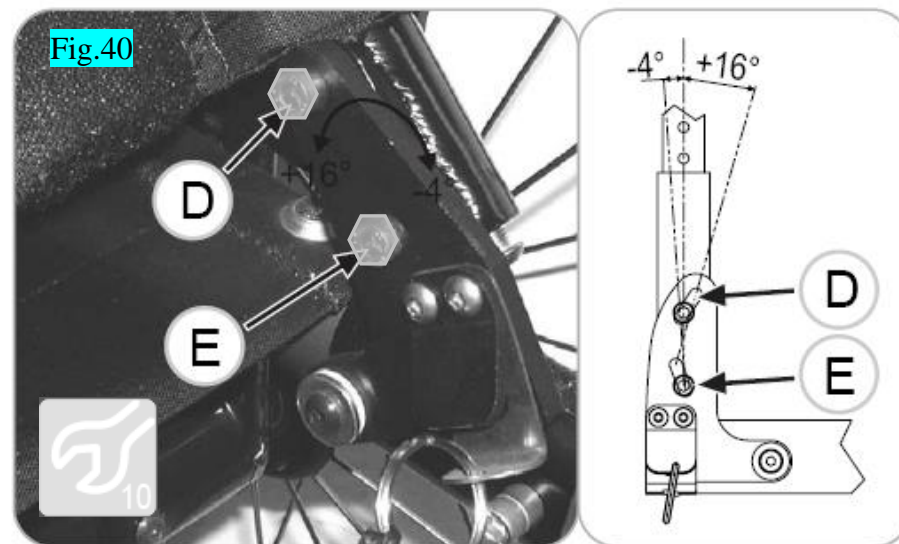


Fig.40



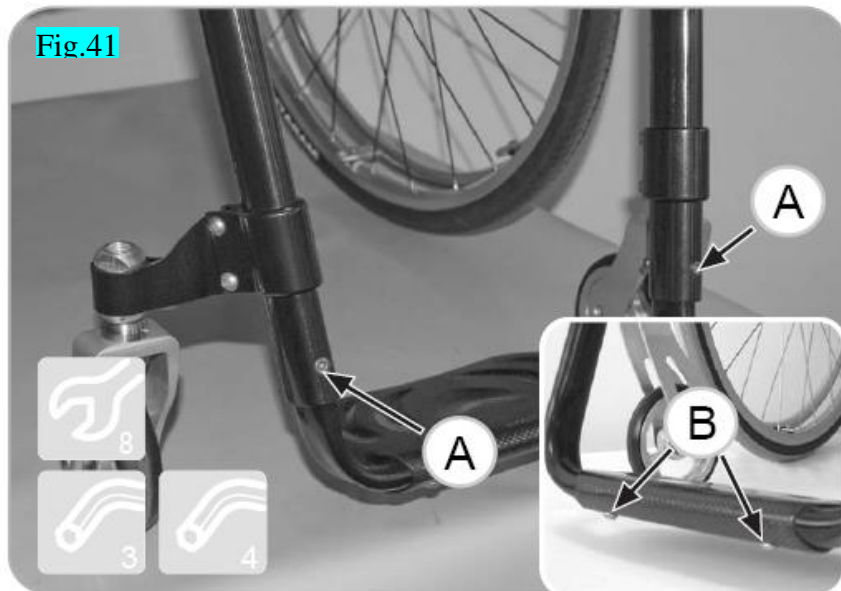
The backrest inclination affects the wheelchair point of balance. With an open angle, the wheelchair will tip over more easily. When used in this position we recommend that an appropriate anti-tip system is fitted (see chapter 7.3 “Anti-tip wheels”). Always check the stability of the wheelchair in the presence of an assistant.

6.7 Footplate adjustment

Height adjustment (figura 41): This adjustment serves to vary the distance of the footrest from the seat to enable the correct sitting position of the user based on the height of the user and his/her leg length.

The support tube for the footrest has several pre-drilled holes and the frame has a further hole allowing the height of the footrest to be adjusted.

- ❖ Loosen the two bolts and nuts “B” (figure 41) which are located under the carbon fibre footrest (using 4 mm Allen key); (with aluminium footplate, loosen the headless bolt “B” and the bolt “A” – see fig. 42a – 3mm and 5mm Allen key); this is necessary to keep the same inclination of the frames. In fact the width of the footplate changes with relation to its height: the longer the footplate distance the narrower its width.
- ❖ Remove screws “A” and corresponding nuts and washers (use a 3 mm Allen key and an 8 mm spanner).
- ❖ Slide the footrest support tube up or down to the desired position.
- ❖ Replace the two bolts and nuts “A” in the nearest available holes and firmly tighten them .
- ❖ Finally, tighten the bolts “B”.



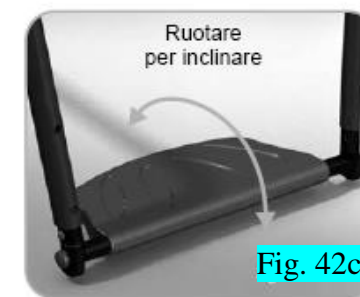
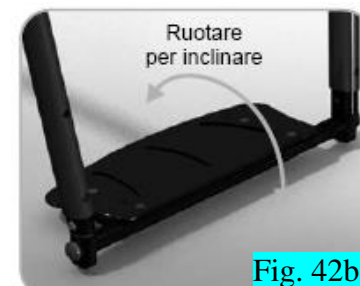
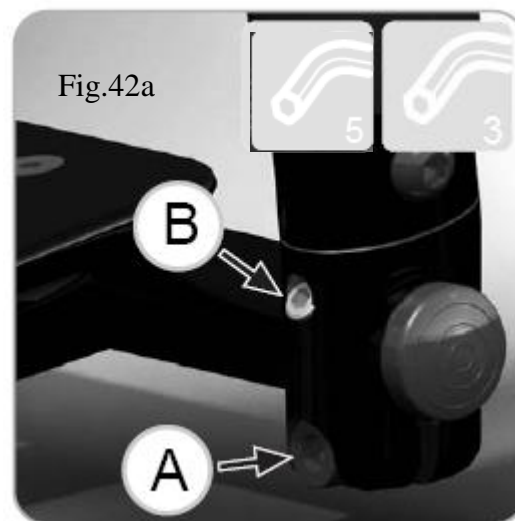
In order to avoid hitting objects which could cause the wheelchair to tip over, we recommend that the minimum distance between the base of the footrests and the ground should not be less than 2cm.

After the adjustment, check the front wheel, when rotating, does not touch the footplate.



With carbon fiber frame do not tighten the bolts “A” too hard, this may cause serious damage the carbon fiber.

Angle adjustment: this adjustment allows to change the inclination of the footplate in accordance with a more comfortable and correct position of the feet. Such adjustment can be performed only if the wheelchair is equipped with the aluminium (standard) (figure 42b) or carbon fibre (figure 42c) angle adjustable footplate.



- ❖ Loosen the bolt “A” (5mm Allen key) and the headless bolt “B” (3mm Allen key) (figure 42a) on both supports.
- ❖ Turn the plate clockwise or anticlockwise to adjust its inclination (see figures 42b e 42c) and to find the ideal position to support the feet
- ❖ Finally tighten all bolts firmly.

Footplate position

With carbon fiber footplate fixed to the footplate tubes: the only possible position has the plate facing inward (see figure 41)

With angle adjustable carbon fiber footplate: the plate can be mounted in two different positions: *internal* (figures 43c, 44) or *external* (figure 45). These two positions depend only on how the parts are assembled. The position can be chosen on the order form



Fig. 43

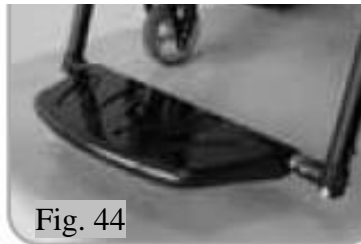


Fig. 44

With angle adjustment aluminium footplate: the aluminium plate can be assembled in four different positions: *completely internal* (figures 42b, 45), *2/3 internal* (figure 46), *2/3 external* (figure 47), *completely external* (figure 48). These configurations depends only on how the parts are assembled. The position can be chosen on the order form.



Fig. 45



Fig. 46



Fig. 47



Fig. 48



After the adjustment, check the front wheel, when rotating, does not touch the footplate. (see also chapter 6.5 “Adjustment of front wheels height and fork”).

6.8 Brake adjustment

The parking brake is a very important piece of equipment that requires careful adjustment to ensure it functions correctly.

The JOKER PERFORMANCE wheelchair has been designed so that the braking system is as simple as possible.

The brake position depends on the rear wheel position (see chapter 6.4 “Rear wheel adjustment”)



Make sure that the bolts are securely tightened.

Check the correct functioning of the brakes by conducting specific brake tests.

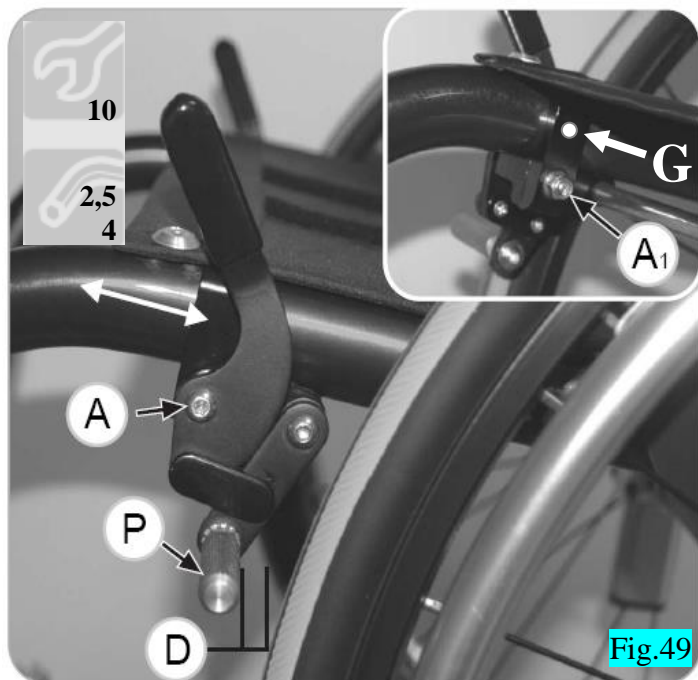
Check that all parts are secure by pushing hard on the brake lever (while braking). If the brake support should move or slip during this test, check that the screws are tightened fully.

If the position of the rear wheel is changed the brakes need to be adjusted.

The correct functioning of the brake also depends on the correct rear tyre pressure being maintained. (see chapter 2.6 “Tyre pressure”).



The parking brakes are designed to keep the wheelchair in position when stationary. For safety reasons we do not recommend using the parking brakes for braking while the wheelchair is in motion.



To adjust the brake (figure 49):

- ❖ Loosen the headless bolt “G” (3mm Allen key)
- ❖ Loosen the bolt “A” and its nut “A1” on the brake support (4 mm Allen Key and 10mm spanner).
- ❖ Move the brake support along the frame until the knurled brake rod is at a distance of 0.5 cm (0.6 cm with anti-puncture tyre) .
- ❖ Once the correct position is reached, firmly fix all bolts
- ❖ Follow the same procedure for the other side



With carbon fiber frame do not tighten the headless bolt “A” too hard, this may cause serious damage the carbon fiber.

6.9 Backrest upholstery adjustment

The backrest can be adjusted to the user requirements by tensioning or slackening the special velcro straps hidden within the backrest itself .

To carry out the adjustment, lift or remove the padding, tighten or slacken the velcro straps as required and put the padding back in place (figures 50, 51) .

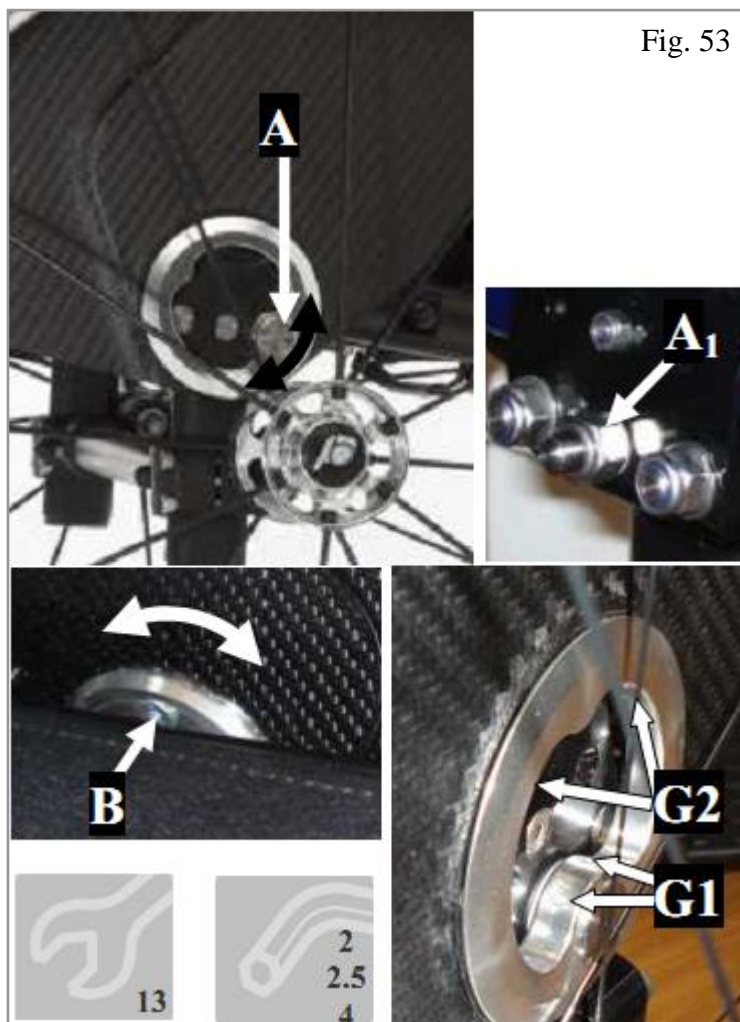


6.10 Mudguard adjustment

After adjustment, the mudguard edge should be 5mm above the tyre to prevent the user from inserting his/her fingers between tyre and mudguard. (figure 52).



Fig.52



It is possible to adjust the mudguard in height and in depth the mudguard is fixed to an eccentric ring that, in its turn, is fixed to the frame (figure 53). To perform the adjustment when changing the rear wheel position or size, carry out the following procedure:

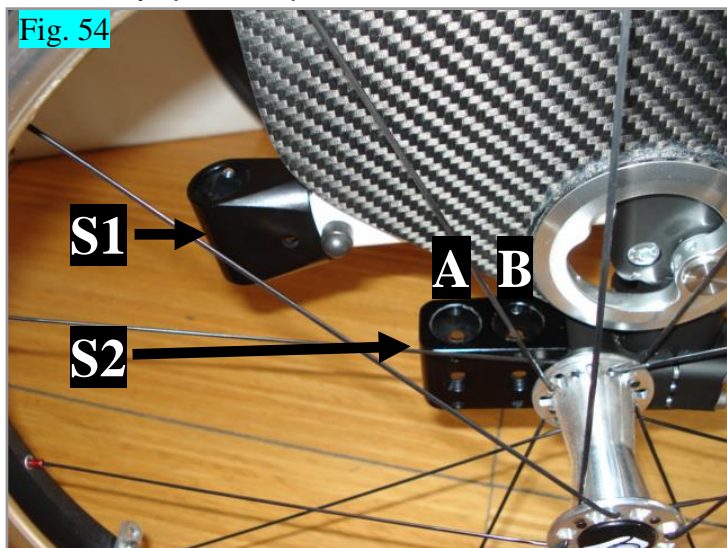
- ❖ Remove the rear wheel (see chapter 5.5 *"Quick release rear wheel"*)
- ❖ With a 13mm spanner, loosen the nut **"A1"** (under the seat) that fixes the axle **"A"** and, with a 2.5mm Allen key, loosen the two headless bolts **"G1"**; this will allow to rotate the complete system on the axle **"A"**.
- ❖ With a 2mm and 4mm Allen key, loosen the bolt **"B"** and the headless bolts **"G2"**; this will allow to rotate the mudguard on the ring.
- ❖ Working on the above mentioned two rotations, adjust the mudguard to its maximum height and put the rear wheel on.
- ❖ Adjust the mudguard to the correct position.
- ❖ Tighten all bolts making sure to keep the mudguards in the correct position.



In some cases the bolt **"B"** may be not accessible . In such case tighten the two headless bolts **"G2"** and rotate the whole system until the bolt **"B"** is reachable, then tighten it and rotate it back to the correct position.

7.0 Accessories

Some accessories require two supports to be mounted on the wheelchair (figure 54) and may be requested on the order form when purchasing the wheelchair; they can also be purchased later and installed by qualified personnel.



The support, according to the accessory, has to be mounted on the left and/or right rear sides of the wheelchair and enable the use of *removable swing away armrests, transit wheels and anti-tip wheels, tipping aids and crutch support*. For the possible combination see table 2.

Table 2 : Possible combinations

	Upper support "S1"		Lower support "S2"			
	Right	Left	Right A	Left A	Right B	Left B
1	Swing away armrest	Swing away armrest	Anti tip wheel	Anti tip wheel	Transit wheel	Transit wheel
2	Swing away armrest	Swing away armrest	Anti tip wheel	Tippig aid	Transit wheel	Transit wheel
3	Swing away armrest	Swing away armrest	Anti tip wheel	Crutches support	Transit wheel	Transit wheel
4	Swing away armrest	Swing away armrest	Anti tip wheel	Crutches support	Transit wheel	Transit wheel

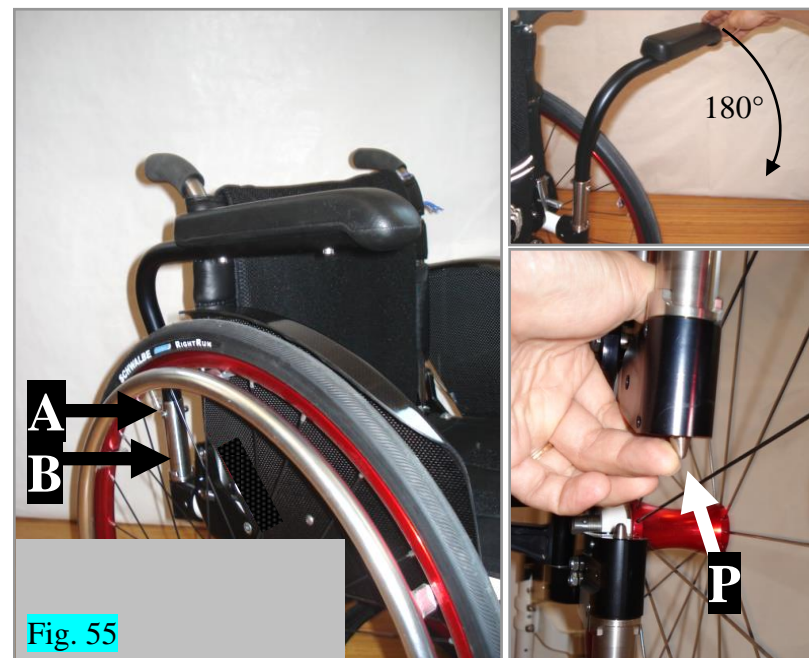
7.1 Height adjustable removable swing away armrests

The swing away armrests (figure 55) are inserted into the accessory support "S" with a steel locking system.

Thank to this system, this kind of armrests can be removed or rotated outwardly as to make moving in and out of the wheelchair easier.

To adjust the height of the armrest:

- ❖ Remove (using a 3 mm Allen key and a 8 mm spanner) the fixing screws "A".
- ❖ Raise or lower the armrest by sliding it up or down the support "B" until the desired height is reached.
- ❖ After adjusting the height, tighten the screws "A" in the nearest pre-drilled hole.



To facilitate transfers, it is possible to rotate the armrest by 180° or simply remove it completely.

To rotate the armrest, lift it enough to free the safety system and swing it outward by 180°.

To remove the armrest, first push forward the fixing pin “P” positioned in the lower part of the support “S” and pull the armrest up.

Insert and push down the armrest in the support hole in order to fix it. An audible click indicates that the support is locked.



Do not use the armrests as a seat or bodyweight resting points while transferring in and out of the wheelchair. This may result in the breakage of the armrest and it may cause injury to the user.

Do not use the armrest as a hand hold for pulling the chair up. The armrests may come off completely causing possible injury to the person.



Always check that the armrests are correctly located in the groove on the support. This is to avoid accidental rotation of the armrest which could cause the user to slip out of the wheelchair.

7.2 Transit wheels

This accessory (figure 56) is necessary when the width of the wheelchair makes passing through narrow gaps impossible (eg. a door or a lift).

To use this accessory it is necessary to remove the rear wheels (see chapter 5.5 “Quick-release rear wheels”).

The use of this accessory the wheelchair becomes both narrower and shorter.

The transit wheels can also be removed from their support by sliding the tube off its support after pressing the release button “A” which locks it in position.

For a correct assembly of the transit wheel it must be remembered that when inserting it into the support, the pin “A” should always face toward the inside of the wheelchair.



Fig. 56

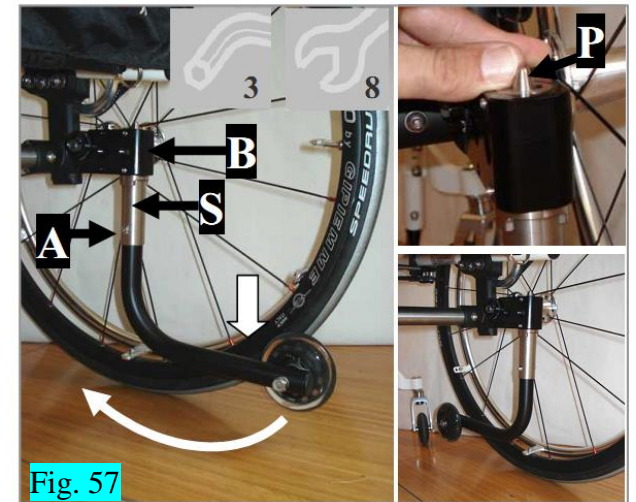


Fig. 57



It must be remembered that while using the transit wheels (with the rear wheels removed), the parking brakes will not work at all.

7.3 Anti tip wheels

This accessory (figure 57) has been designed to **prevent the wheelchair from tipping back**. In order to ensure that it works correctly it should be adjusted to a distance of 2-3 cm from the ground. The adjustment of the height is carried out by removing fixing screw “A” (3 mm Allen key and a 8 mm spanner)

Raise or lower the anti-tip wheel tube by sliding it up or down the support “S”, until the desired height is reached. Once the correct position has been reached re-tighten the screws “A” in the nearest hole.

The anti-tip wheels can be removed completely or simply rotated inwards depending on requirements, for example, when ascending steps.

To rotate the anti-tip wheel inwards push it down enough to free the locking system and turn the anti-tip tube inwards by 180°.

To remove the anti tipper, first push forward the fixing pin “P” positioned in the upper part of the support “S” and pull the armrest down.

Insert and push the armrest up in the support hole in order to fix it. An audible click indicates that the support is locked.

7.4 Tipping aid

This accessory has been designed to enable the assistant to tip back the wheelchair without a great effort so as to go over small steps easily.

With one foot, press down on the plastic support (figure 58) while, at the same time, applying downward force onto the push handles.

7.5 Crutches support

This accessory enables the user to transport crutches ensuring that they don't interfere with the normal operation of the wheelchair.

Place the crutches feet into the support “A” and fasten the crutches upper part to the back support tube using the straps “B”.



Fig. 58

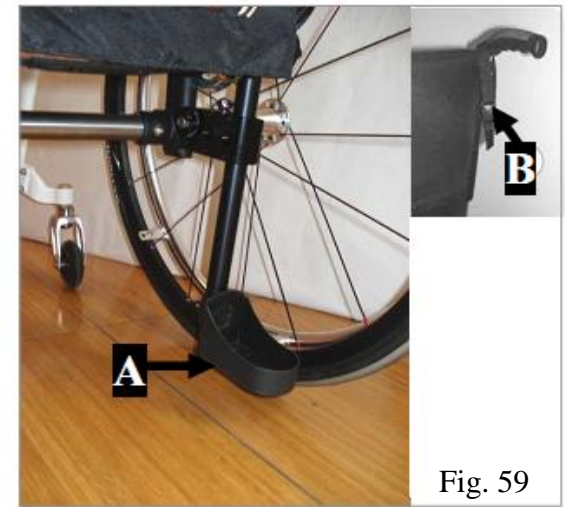


Fig. 59

7.6 Other accessories

Other accessories available for the JOKER PERFORMANCE :



Fig. 60

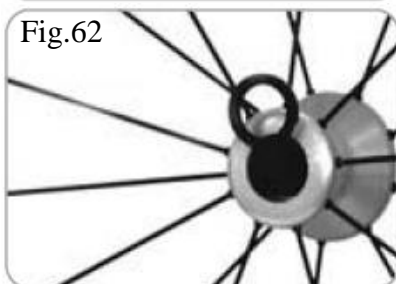
Spoke Guards

These have principally a cosmetic function but also prevent the user from accidentally inserting their fingers in the rear wheel spokes (figure 60).



Push handles for assistant

These can usually be mounted onto a “sport” model backrest that does not have push handles as standard. They are useful in situations where an assistant is required. They are removable and height adjustable to offer good grip and posture for the assistant (figure 61).



Tetraclip

This is a special quick release axle with a ring lever that simplifies the wheel removal operation for users who have particular problems with their hands and fingers (figure 62)



Folding push handles

When folded, they reduce the encumbrance of the wheelchair (figure 63).



Pelvic belt / harness

Two accessories which serve to ensure increased stability when the user is seated (fig. 70) (see chapter 5.7 “Safety belts and harness”).

Fig. 65



Special hand rims

These are available for all PROGEO wheelchair models, “Special hand rims” with special features which ensure improved grip, and therefore a more energy efficient pushing motion, especially for users with limited strength or mobility of the hands and fingers.

Hereafter there is a list of the range of hand rims available, excluding detailed explanation of the features of each type. More detailed information is available from RehaTEAM s.r.l. on request.

- 1) Hand rim *Dual grepp*
- 2) Hand rim *Ultra grepp*
- 3) Hand rim *Max grepp*
- 4) Hand rim *Ergo-para*
- 5) Hand rim *Quad*
- 6) *Silicon* hand rim cover

Fig. 66



One arm drive

This accessory (figure 66) allows the user to drive the wheelchair pushing it on one wheel only, in fact, this wheel is equipped with two hand rims that control the two wheels independently.



Handy bike adaptor kit

This accessory (figure 67) allow the rear wheels to be set both in the normal use position and in a more rearward position when a handy bike is fixed to the wheelchair.

8.0 Maintenance

Periodic inspection of the wheelchair is vital to guarantee maximum performance and a long life. A careful check, repeated at regular intervals, along with an appropriate use of the wheelchair (see chapters 2.0 “*Safety*” and 5.0 “*Using the wheelchair*”) will ensure that your wheelchair will last for many years.

To clean the aluminium parts (frame, hand rims, brakes etc.), the backrest and the seat, we recommend using only a **soft, damp cloth.**



Within 6 months from purchase, we recommend to go to an authorized PROGEO dealer for a complete check up of your wheelchair. The manufacturer will accept no responsibility in case of non compliance with the instructions or recommendations as set out in this manual and any such activity will result in the immediate cancellation of the manufacturer's warranty.



We recommend paying particular attention to the cleaning of the handrims of the rear wheels, which become dirty very easily because of their constant use and nearness to the ground. Careful cleaning the handrims will ensure optimum grip and therefore safer operation.



When cleaning the wheelchair, do not use abrasive cleaning agents or degreasing substances which could cause damage.



Sand and sea water may damage the wheel bearings. Check the bearings carefully if contact is suspected. Lubricate with a non-resin based light bicycle oil.



Tighten firmly all screws and replace lock nuts that are used frequently. In fact, with frequent loosening and tightening they tend to lose their effectiveness.



Have a complete check of the wheelchair carried out (at least every three months) by qualified personnel authorized for maintenance on PROGEO® products.

For any questions relating to the adjustment and maintenance of your PROGEO wheelchair, the experienced technical staff at RehaTEAM are at the complete disposal of all our clients. You can contact us directly at the address below:

RehaTEAM® s.r.l

vicolo Negrelli, 4 - 31040 Castagnole di Paese (TV) Italy

Tel. +39.0422.484657 - Fax +39.0422.484661

<http://www.rehateamprogeo.com>

email: info@rehateamprogeo.com

8.1 Replacements of worn parts

With its use, any wheelchair will require, in addition to the routine maintenance as indicated in chapter 8.0 “*Maintenance*”, further “unscheduled” intervention due to the normal wear and tear of components. This maintenance is closely linked to amount and type of use the wheelchair is subjected (e.g. use over rough terrain, in coastal areas with more airborne salt etc..)

Repairing a puncture

Remove the wheel (front or rear) and fully deflate by pressing the valve (this procedure is not required for solid tyre).

JOKER PERFORMANCE 40

Remove the tyre using bicycle tyre levers.

Remove the inner tube and repair it using a standard puncture repair kit and the same procedure used for repairing a normal bicycle inner tube.

If repair is not possible then the inner tube will need to be replaced



The rear wheel tyres should be replaced whenever excessive or irregular wear is noticed since this results in reducing the performance of the wheelchair.

When worn out or damaged, the solid front tyres has to be replaced with a new one.

To re-fit an inner tube and tyre onto the wheel rim it is necessary to partially inflate the inner tube.

Next, insert the valve into the hole on the rim and, using both hands and bicycle tyre levers, insert the inner tube into the tyre and work the edge of the tyre over the wheel rim.

Do this all the way round the wheel, checking carefully that the inner tube does not get pinched between the rim and the tyre.

Inflate the tyre to the correct pressure (see chapter 2.6 “Tyre pressure”).

Spare parts

For the replacement of parts due to wear and tear or breakage (or simply for the purchase of accessories) all the necessary spare parts to keep your wheelchair in perfect working order will remain readily available.

All spare parts can be ordered through our authorized dealers.

8.2 Inspection of components

As a daily check, we recommend the following operations:

1. Check the tyre pressure (chapter 2.6)
2. Check the quick release axles (chapter 2.7)

3. Check the backrest locking system (chapter 2.8)

4. Check the footplate (chapter 2.9)

5. Check the parking brakes (chapter 6.8)

6. General check of all screws (chapter 2.12)

8.3 Troubleshooting guide

With constant and prolonged use of the wheelchair, or after the adjustment of any part, a number of “defects” which can be eliminated easily might be encountered (see table opposite).

We recommend that you always have your wheelchair adjusted by qualified personnel.

Problem	Cause of the problem	Solution
The wheelchair does not go straight.	The front fork are not perpendicular to the ground.	Check front wheel angle (see chapter 6.5)
	The front wheels have not the same height.	Check front wheels height (see chapter 6.5)
	The tyres pressure is not correct	Check tyres pressure (see chapter 2.6)
	The spokes are broken or loosen.	Change the damaged spokes or tighten the loosened one.
	The front wheels bearings are dirty or damaged.	Clean the bearings or change them
The wheelchair tips up easily.	The wheelchair has an active setting.	Move the rear wheels structure backwards (see chapter 6.4)
	The wheelchair is too inclined	Increase the rear height or decrease the front height (see chapters 6.4, and 6.5)
The brakes do not work properly.	The tyre pressure is not correct	Check tyres pressure (see chapter 2.6)
	Bad adjustment of brake position	Check brakes adjustment (see chapter 6.8)
The wheelchair results difficult to propel.	The tyre pressure is not correct	Check tyres pressure (see chapter 2.6)
	Tyres are worn out	Change the tyres (chapter 8.1)

9.0 Technical data



Seat width

33-36-39
42-45 -48cm



Backrest height
from 24,5 to 47cm
adjustable



Backrest angle

from 74° to 94° to the seat
adjustable



Wheelchair weight

8,5 kg approx. (lightest conf.)
9,7kg approx. (std conf.)



Seat depth

35-37,5-40-42,5
45-47,5-50cm



Front frame angle
aluminium 85° 90° 100°
carbon 85° 90° 95°



Camber

0° 2° 4°



Weight without rear wheels

5,9 kg approx. (lightest conf.)
6,7kg approx. (std conf.)



Seat height

front 49cm (std)
rear 43cm (std)
adjustable



Total length

88cm approx.
(std conf.)



Maximum load

140 kg



Footplate distance

adjustable



Total width

Seat width + 17cm
(with 0° camber)

Typology: ultra light wheelchair with rigid frame for indoor and outdoor use.

10.0 Warranty

The warranty agreement exists only between RehaTEAM s.r.l. and its authorised dealers. For this reason the client may not make warranty claims directly to RehaTEAM. The following conditions of warranty are therefore reproduced solely for information purposes.

General conditions of the warranty

RehaTEAM s.r.l. provides assistance on its products on the condition that they have been used correctly and that adequate maintenance has been carried out on all parts of the wheelchair (see instruction manual).

The warranty covers all defects in material and production provided that such defects can be shown to have been caused prior to distribution of the product to the authorised dealer.

How to validate your rights under the warranty

In order to validate all rights covered under the warranty (on all our products) the authorised dealer must carry out an inspection, within 7 days of the date of delivery, on all products received, in order to identify eventual production defects, and secondly, that if any such production defects are noticed, that they confirm the same to RehaTEAM s.r.l. in writing immediately.

RehaTEAM s.r.l. should also be notified in writing of any defect which, despite careful inspection, is identified only after the expiry of the abovementioned period.

Warranty period

On all its wheelchairs RehaTEAM s.r.l. provides a guarantee of 5 years on the frame, and 2 years on all other components and accessories, starting from the date of delivery, excluding those components that are subject to normal wear and tear during everyday use.

Repair of defects and replacement

The guarantee on defects on contact parts is at the complete

discretion of RehaTEAM s.r.l., either for the repair of the defect or for the replacement of the part itself.

The authorised distributor in cases of simple repairs may take action independently to eliminate the defect or bring the defect to the attention of RehaTEAM s.r.l. in specific cases.

Limits of the warranty

The RehaTEAM s.r.l. warranty does not cover additional costs (e.g. repair, packing, labour costs, incidental costs etc..) The following are not covered by the warranty:

- damage caused during transportation, not communicated to the transport company at the moment of delivery.
- repairs carried out by unauthorised dealers or personnel.
- parts subject to wear and tear.
- damage to property or injury to persons caused during use of our products.
- damage caused maliciously or where the buyer is at fault, or resulting from incorrect or improper use of the product..

Excluded from the warranty is any pretext for indemnity except those expressly mentioned in the preceding paragraphs (see chapter 10.0 "*Warranty*").

RehaTEAM s.r.l. does not accept any responsibility for failure to respect or carry out the conditions agreed in individual contracts, if the following circumstances have impeded and/or have made it impossible to respect the terms of the contract itself: embargos, import and export bans imposed on contract products, legal rulings, strikes, lack of raw materials, accidents, major force or other forces beyond our control.

RehaTEAM s.r.l. reserves the right to carry out technical modifications to its products which it deems necessary without prior notification.

11.0 Certification



Declaration of conformity CE

The manufacturer **REHATEAM s.r.l.**
premises in **Vicolo Negrelli, 4 – 31040 Castagnole di Paese (TV) Italia**
declares that the product defined as
WHEELCHAIR FOR DISABLED PERSONS , PROGEO series, model:

JOKER PERFORMANCE

which this declaration refers to,
is in conformity with the guidelines as laid down by **European Union
Directive 2007/47/CE**
applied in Italy as **D.L.gs 37/2010.**

the manufacturer has classified the above mentioned product as
CLASS I Medical Device
based on provisions as set out in the addendum IX of EU Directive 93/42
made in compliance with rule UNI EN 12183-2009

- **UNI CEI EN ISO 14971:2008**
- **UNI EN 980:2002**
- **UNI EN 1041 :2001**

Castagnole di Paese TV
05/12/2008

Direttore Responsabile Rehateam s.r.l.
Sig. Luciano Nosella



CERTIFICATE

The Certification Body TÜV Rheinland Italia S.r.l.

certifies, in accordance with the TÜV Rheinland Group procedures, that the Company

REHATEAM S.r.l.

Vicolo Negrelli, 4
I - 31040 Castagnole di Paese (TV)

has established and applies a quality management system
for the following scope:

**Design, production and sales of rehabilitation
and personal mobility devices. EA 17, 29a**

Through an Audit, Report No. 1120912, proof has been furnished that the
quality management system fulfils the requirements of the standard

UNI EN ISO 9001:2008

Please refer to the Quality Manual for the details about
the exclusions with respect to the requirements of the standard.

Certificate Registration No. **39 00 1120912.**

This Certificate is valid from 2010-03-12 to 2013-03-11.

The reference date for all the next audits is (day-month): 13-02.

Milan, 2010-03-12. First Certification: 2004-01-22

The certification responsible
TÜV Rheinland Italia S.r.l., Via E. Mattei, 10 - I - 20010 Pogliano Milanese (MI) *



SGQ N° 883A
Membro degli Accordi di Mutuo Riconoscimento EA ed IAF
Signatory of EA and IAF Mutual Recognition Agreements

¹ Member of



www.tuv.com



JOKER PERFORMANCE 44

Information form	
Send this form to: RehaTEAM® s.r.l. vicolo Negrelli, 4 31040 Castagnole di Paese (TV) Italy	
Surname	
First name	
Date of birth	
Place of birth	
Address	
Town	
Province	
Post code	
Nationality	
Phone	
Fax	
e-mail	
Wheelchair model	
Serial number	
Purchased from	
Date of purchase	
Signature	
<small>In compliance with Italian law 675/96 on the data protection act, we inform you that your personal details will be collected and used by us with the exclusive aim of sending out advertising and news on products offered by our company. Such information will be held on an electronic archive and every effort will be made to ensure security and privacy. In compliance with article 13 of Italian law 675/96, at any moment you have the right to access, modify, delete or simply oppose the use of such information held by sending an email to the following address: progeo@rehateamprogeo.com</small>	

[illegible]

Notice (read carefully before use)

This Medical Device is CE certified in compliance with the guidelines as laid down by European Union Directive same directive.

Medical device Class 1 for Medical Devices and it is classified as MEDICAL DEVICE CLASS I, according to annex IX of the

MATERIALS AND MANUFACTURING

All materials, being them of natural or artificial derivation, and manufacturing technics have been chosen to meet the requirements expressed on the above mentioned community directive in term of security, ergonomic, comfort and harmlessness.

PROTECTIVE EQUIPEMENT

As medical devise, this product offers the highest security level against physical risks, in particular, the materials used are certified for resistance, stability and permeability. In the case of unease or cutis redness, it is suggested to suspend the use and consult the medic or therapist

INTENDED USE

The intended use of the device consists in supporting the user for deambulation.

This product is suitable for supporting and transporting people no longer able to use their lower limbs. The device is provided assembled and adjusted according to the technical order form. The product can be used both indoor and outdoor, as reported on the User's manual; sandy grounds, rough grounds, grounds inclined more than the admitted inclination and acid environments are not advised. The autonomous use of this device is suggested only to "active" users. The wheelchair, with relation to its dimension and structural characteristics, is suitable to both teenagers and adults. The device only purpose is that specified on the User's Manual. Before undertake any activity not specified in this Notice or in the User's Manual, absolutely consult the manufacturer. The medical device can not and must not be used together with any other accessory or device that is not designed and manufactured for an use combined to it.

IDENTIFICATION AND CHOICE OF SUITABLE MODEL

The choice of the proper model of the wheelchair must have effective bases to the specific demands of the user. The end user has the complete responsibility of the identification and the choice of the wheelchair. **Before use** make sure that the wheelchair characteristics fit your need.

CHECK AND USE : INSTRUCTIONS

Before using the product, make a visual control to verify the state of integrity. It has to be in perfect conditions, clean and intact. The packaging has to be intact, too. Verify therefore, with a practical test, its perfect condition. If the product is not intact (visible damages like break-ups, structural gangs, etc) the manufacturer has to replace it.

Attention: the wheelchair is safe only if in perfect state. The producer declines any responsibility for any damage or harm due to improper use.

USE AND MAINTENANCE

Once consulted your physician or therapist, we recommend for a correct use of the product:

- choose the correct model following the needs of the end user;
- choose the correct measures, preferably with a practical trial;
- check the integrity of the wheelchair;
- clean regularly the wheelchair, using a brush, a damp sponge or a soft damp cloth. The frequency depends on the condition of use;
- do not use abrasive cleaning agents or degreasing substances (benzin, acids, etc.) which could compromise the quality, security and life of the Medical Device;
- don't dry the product in proximity or to direct contact with heat sources (heaters, heaters, fireplaces, solar direct light, etc);
- lubricate periodically the parts indicated in the User's Manual.

The wheelchair Rehateam srl delivers is tested and configured at best. **It is prohibited to make modification** different from the original. All possible adjustments the user can perform are reported on charter "Adjustments" of the User's Manual, **but they must be performed only for "maintenance", thus to re-establish the original characteristics** (those the wheelchair was provided with).

WASHING INSTRUCTIONS

Do not use aggressive or abrasive products, use only a small amount of mild detergent, preferably highly biodegradable. Use cool water (max 40° C).

RehaTEAM S.r.l. is not responsible for possible damage on the metal parts caused by abrasive products, or on the textile caused by aggressive products.

DEVICE LIFE

PROGEO wheelchairs life depends on time and intensity of their use. With a regular maintenance, a wheelchair that is daily used, has an estimated average life of 5 years. Duration can be by far longer when the wheelchair is use indoor and sporadically. Generally it is suggested to drive the wheelchair gently, without sudden acceleration and/or changes of direction. PROGEO wheelchairs are not biodegradable and at their life end they must not be dispersed in the environment but disposed of as normal urban solid waste, according to the local regulation.

MONITORING THE MEDICAL DEVICE

A periodic check of the wheelchair is vital in order to always guarantee its maximum efficiency and life. Before use, read carefully the User's Manual provided with the wheelchair. For a general check consult the authorised dealer within 6 months from purchase and then (at least once every 3 months) a complete check performed by qualified and authorised personnel for PROGEO products maintenance. In case of any malfunction or problem the check has to be done immediately.

WARRANTY

From the date of delivery of the product, the warranty covers all the defects due to workmanship, material defects or errors caused by the manufacturer.

The life time warranty is :

- FIVE YEARS in the frame structure;
- TWO YEAR in all the other components of the wheelchair.

The warranty does not include:

- damage due to the transport not statements directly to the forwarder during the delivery;
- reparations carried out by unauthorized dealers or personnel;
- parts subject to wear and tear;
- damage voluntarily caused by people or things;
- damage caused for malice or guilt of the buyer or from an incorrect and improper use of the wheelchair;
- damage to third parts

IMPORTANT

With the purpose to acquire experience in the use of the Medical Device, the end user is invited, or who for it, to inform RehaTEAM S.r.l. if the product presents any malfunction or deterioration of the characteristic and/or performances, as well as a lack of the label or the instructions for the use that has caused accidents or damages to the end user.

REHATEAM S.r.l., Vicolo Negrelli, 4 - 31040 Castagnole di Paese (TV)

Tel. +39.0422.484657 - Fax +39.0422.484661

e-mail: progeo@rehateamprogeo.com

RETURN POLICY

All returns require pre-authorization from RehaTEAM s.r.l. and are subject to shipping and handling costs.



Medical device **Class 1** directive 93/42/CEE s.m.i.
Certified product **GM TÜV Rheinland**



By **RehaTEAM® Srl**
Vicolo Negrelli, 4 – 31040 Castagnole di Paese (TV) Italy
Tel. +39 0422 484657 ra Fax +39 0422 484661
<http://www.rehateamprogeo.com>
progeo@rehateamprogeo.com

Certified company TÜV Rheinland directive UNI/EN/ISO/9001

Rehateam® s.r.l. reserves the right to carry out modification and/or improvements to its products without prior notice.

Total or partial reproduction of this manual is forbidden without written authorization from Rehateam® s.r.l..

ULTRA LIGHT WHEELCHAIR

JOKER PERFORMANCE

Place of production Castagnole di Paese (TV) Italy

Date of production / /

Date of delivery / /

Serial number **J P**

DISTRIBUTOR

MANUFACTURER



Rehateam S.r.l.
Vicolo Negrelli, 4
31040 Castagnole di Paese (TV) Italy
Tel. +39 0422 484657 ra Fax +39 0422 484661
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