

karma

USER MANUAL

KARMA MODEL KM8020 II SELF PROPELLING
WHEELCHAIR

KARMA MODEL KM8520 II TRANIST WHEELCHAIR



ALLIED
MEDICAL
LIMITED



1.1 General

Only maintenance and service as described in this manual should be carried out. Use only genuine replacement parts.

1.2 Using the KM8020 series

- ✓ Always make sure BOTH brakes are applied before getting into or out of the wheelchair.
- ✓ Always take care when climbing kerbs or turning on slopes.
- ✗ Never stand on the footplates when getting in or out of the wheelchair.
- ✗ Never go down steps forward.
- ✗ Never carry more than one passenger.

1.3 Notes for attendants and users

- ✓ Do ensure that the brakes are always on when the wheelchair is not being pushed.
- ✓ Always make sure that both of the user's feet are safely on the footplates and that their clothing is safely tucked out of the way and cannot catch in the wheel.
- ✓ Always keep both hands on the push handles to control the wheelchair.
- ✓ Always look well ahead to anticipate hazards such as furniture, doors or potholes.
- ✓ Always avoid soft surfaces because the wheelchair may get bogged down.
- ✓ Always be careful not to go too fast or turn quickly and try to achieve a smooth steady ride.

PLEASE keep in contact with the person in the wheelchair. If you stop to look in shop windows or talk to people remember to turn the chair so that the person in the wheelchair does not have to turn.

NEVER put on the brakes too suddenly or too firmly as this may tip the user out of the wheelchair.

1.4 General Misuse

Please note that our USER GUIDE contains a number of cautions. Any vehicle can cause injury if misused. Use your wheelchair with reasonable care and within these guidelines and your safety will be ensured.

If used sensibly and carefully, your wheelchair will give you years of safe use. Be aware that careless use endangers your own safety as well as that of others. ALWAYS follow the road code when outdoors and also the guidelines written in this manual.

the user can place their feet upon them.

Step 5: Release the brakes.

CAUTION: Never stand on the footplates when getting into or out of the wheelchair.

Always ensure that the front castors are in line with the rear wheels and pointing forwards and that the back of the wheelchair is secure against either a wall or firmly held by an attendant.

2.2.2 Getting out

Step 1: Make sure that the wheelchair is as close as possible to the transfer point.

Step 2: Back the wheelchair sufficiently to ensure that the castors are pointing forward i.e. in line with the rear wheels and usually with the castor forks pointing forward. Ensure that where possible the rear of the wheelchair is against the wall or, if not, it must be firmly held by an attendant.

Step 3: Engage both the brakes.

Step 4: Lift up the footplates and swing the footrests to the side.

Step 5: Slide forwards on the seat.

Step 6: Place one foot firmly on the ground with the knee at right angle and the other foot slightly apart and further back.

Step 7: Place your hands on the front of the armrests and moving your weight forward, bring your head and shoulders up over your knees as you push yourself up.

CAUTION: Never stand on the footplate when getting out of or into the wheelchair.

2.3 TRANSFERS

The following instructions apply to users with sufficient mobility to get in and out of the wheelchair without assistance. However the instructions are still valid where assistance is required and will help where other aids such as transfer boards or hoists are used. Before transferring to or from the wheelchair, make sure you are as near as possible to your point of transfer and that the brakes are applied.

2.3.1 Forward Transfer - Getting into the wheelchair

Remove or swing the legrests to the side.

Lower yourself into the wheelchair using the armrests for support or with the help of a caregiver.

Refit or swing the legrests back into place, taking care not to catch yourself, and place your feet on the legrests.

2.3.2 Forward Transfer - Getting out of the wheelchair

Remove or swing the legrests to one side.

Move forward in the seat until your feet can reach the floor or you are balanced on the edge of the seat.

Place your hands on the front of the armrests and move forwards lifting yourself up and out of the wheelchair.

2.3.3 Side Transfer - Getting into the wheelchair

Lift back armrest to clear the seat.

Ensure brake is on.

Remove or swing the legrests to one side.

Place one hand on the wheelchair seat and ease yourself onto the seat.

2.3.4 Side Transfer - Getting out of the wheelchair

Ensure brake is on.

Remove or swing the footrests to one side.

Remove armrest to clear the seat.

Place one hand on the point of transfer and ease yourself out of the wheelchair.

2.4 OTHER IMPORTANT THINGS YOU SHOULD KNOW

Flammability Do not expose the wheelchair to heat sources e.g. heaters and fires. Direct exposure of the wheelchair to a flammable source must be avoided.

Resting Note that the upholstery has been designed for comfort in general use. Users that are susceptible to pressure sores should also use a pressure relief cushion.

Step 3: To adjust the angle of legrest, pull on the lever located underneath the seat whilst pulling legrest upwards or pushing down. Release lever once desired angle has been achieved to lock legrest securely into place.

To adjust the height of the legrest undo bolt located above footplate, pull or push the bar until desired length is achieved, line two holes up and replace bolt and tighten.

3.5 ADJUSTING THE BACK HEIGHT

Where to adjust the backcane height

When looking at the rear of the wheelchair, where the round backcane tubes meet and enter the square tubes of the frame, three bolts are visible. By removing these bolts it is possible to adjust the height of the back.



Figure 3.5

Adjusting the back height

Step 1: Remove the two top bolts on each side of the backcanes (see arrow A in fig 3.5 above) - 4 bolts in total

One pair of identical 5mm allen key head bolts are positioned closely together and towards the top of the square frame tubing. These run through both the frame and the backcanes. They are attached with a nut and spaced with small washers.

Step 2: Remove the lower bolt on each cane if necessary (see arrow B in see fig. 3.5 above) - 2 bolts in total

A third bolt is attached through the rear of the swingaway armrests and the square frame tube.

This bolt is located directly below the bolts described in Step 1. It is above and unrelated to the axle block and bolts that attach the wheel to the frame.

***Only when the backcanes are already set relatively low will this bolt also have to be removed to adjust the backcane height.**

- Step 3: Slide the backcanes up or down to the desired height. As the backcanes are shifted, the back upholstery will move accordingly. There are a number of holes running vertically through the lower portion of the backcane. These determine how much the back height can be raised or lowered.
- CAUTION:** For safety reasons, in the highest position the top two bolts must still pass through the square tubing of the frame and the holes running through the round tubing of the backcane.
- Step 4: Replace the top two bolts on both backcanes. Replace all washers. Tighten each bolt and nut to a point where firm but not crushing the frame.
- Step 5: Replace the third lower bolt on both backcanes if they have been removed.

3.6 REMOVING THE SEAT OR BACK UPHOLSTERY

3.6.1 To remove the back upholstery



- Step 1: Remove the rubber grip handles. By slightly heating them with a hairdryer and twisting them whilst pulling them off, will make removing of these easier.
- Step 2: Undo the two screws that are located underneath the rubber grip handles at the rear of each back cane (see fig. 3.6.1).

Figure 3.6.1

- Step 3: Slightly fold the wheelchair by putting fingers under the middle of the seat at both front and rear, grasp and give a sharp pull upwards until the wheelchair is nearly closed.
- Step 4: Slide the back upholstery off the backcanes.
- Step 5: A tension adjustable or custom back can now be fitted.
- Step 6: Once the new back has been fitted slide rubber grip handles back onto back canes with a twist and push movement, ensuring they're placed back in their original position.

4. MAINTENANCE

4.1 CLEANING AND TYRE CARE

- 4.1.1 Cleaning
Clean the upholstery with a biological cleaning agent such as is recommended for cleaning kitchen work surfaces. Do not use any propriety cleaning fluids as these may damage the upholstery. Clean chrome and painted surfaces with a wax polish spray or simply wipe over with a clean soft duster.
- 4.1.2 Tyres
The KM8000 manual wheelchair is fitted with a maintenance free castor and 12 1/2" x 2 1/4" pneumatic rear tyre (transit wheelchair) or a 24" x 2 1/4" pneumatic rear tyre (self-propelling wheelchair). It is advisable to check the air pressure of these components every two weeks. This can be done either at a service station or with a standard bicycle pump.

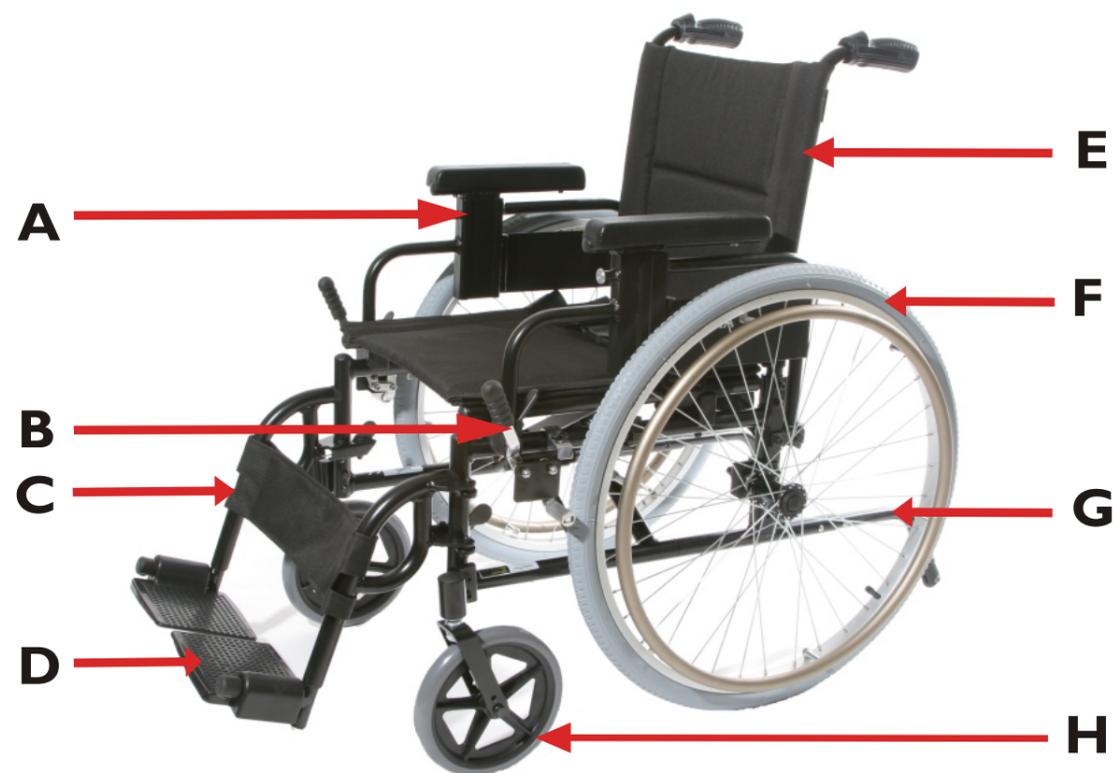
4.2 MAINTENANCE CHECKS

Every week check the following items for damage or excessive wear:
Upholstery and occupant restraints where fitted.

Every month examine the following items for effective operation e.g. damage and general wear and tear:

- Seat and backrest cushions
- Armrest latch lever and clamp handle
- Armrest pads
- Brakes
- Antitippers
- Castors for free rotation of castor wheel and castor unit
- Tyre tread depth

For repairs, please contact your service contractor.



- A** Flip-back, height-adjustable armrest with desk-length arm pad
- B** Push-to-lock brakes
- C** 70-degree legrests with calf strap
- D** Plastic footplate
- E** Height-adjustable backrest
- F** Quick release, removable rear wheels
- G** Anti-tippers
- H** 8" x 1" solid castor
- I** Transit rear wheel
- J** Rubber grip handles

SPECIFICATIONS

 <p>Seat width 14", 16", 17" 18", 20", 22"</p>	 <p>Seat depth 16", 18" Options: 1" and 2" (+/-) customisation for 14"-20" width frames</p>	 <p>Rear wheel Transit 12.5" Self Propel 24" Options: 22" x 20"</p>	 <p>Front castor 8" x 1" solid Options: 8" x 2" pneumatic 6" x 1" solid or pneumatic</p>
 <p>Seat to floor height 19" Options: Customised configurations 16" - 21"</p>	 <p>Back height 15.5" Options: 18.5" with upholstery extension 22" with extended back canes</p>	 <p>Armrest height 8.5" min 11.5" max</p>	 <p>Overall width (when open) Self Propel: Seat width + 9" Transit: Seat width + 6"</p>
 <p>Overall length 32" (42" with 70-deg hangers)</p>	 <p>Overall height 35" Options: 38" with 22" back canes</p>	 <p>User weight limit 14"-18" width frames 130 kg 20"-22" width frames 160 kg</p>	 <p>Wheelchair weight Transit 13.5 kg Self Propel 15.5 kg (With all standard features)</p>

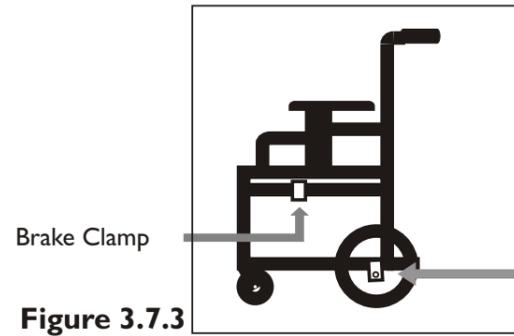


Figure 3.7.3

Step 3: Use the larger bottom hole on the block (see fig 3.3.3) to mount the transit wheel. The block should be pointing towards the ground with the flat side of the block facing outwards away from the frame.

3.8 CHANGING FROM STANDARD CONFIGURATION TO AMPUTEE SETTING

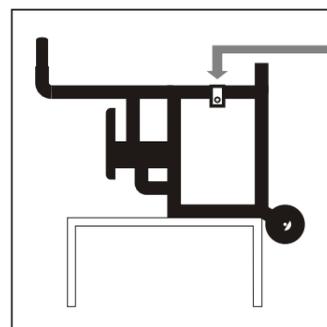


Figure 3.8.1

Step 1: Remove hangers, quick-release wheels and axles. Place wheelchair on bench/table or floor as shown in figure 3.8.1.

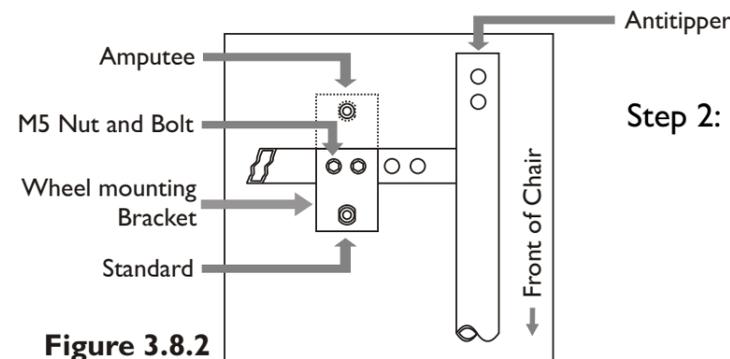


Figure 3.8.2

Step 2: Remove the two M6 nuts and bolts with a 5mm allen key and 10mm spanner (as supplied in Karma tool kit).

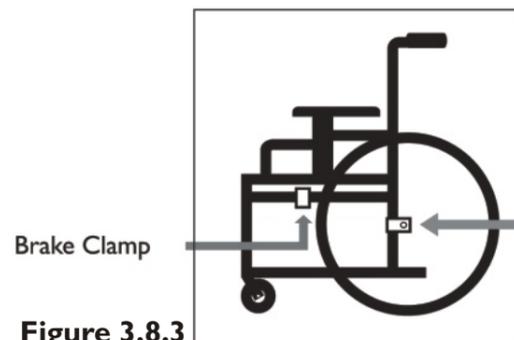


Figure 3.8.3

Step 3: Reposition wheel mounting bracket as required. Replace bolts, washers and nuts and tighten. Replace quick-release wheels, loosen brake clamps with a 5mm allen key and slide along frame to suit new wheel position.

HANDY HINT: Work on one side at a time so the other side can be used as reference for correct brake positioning.

NOTE: If changing from amputee setting back to standard configuration move the brake before replacing the quick-release wheels.

3.6.2 To remove the seat upholstery

Located on each side of the seat is a row of screws that securely hold the seat upholstery in place. This is covered with an extended section of the upholstery and fastened with Velcro over the screws to protect the user from damaging their skin.



Figure 3.6.2

Step 1: To remove the seat upholstery, undo the Velcro on the extended upholstery on each side and undo each screw.

Step 2: The seat upholstery can now be removed and custom seating can be fitted.

Step 3: To replace the seat upholstery, line up the hole in the seat upholstery with the holes in the cross bar and replace each screw and washer and tighten.

3.7 CONVERT WHEELCHAIR FROM SELF PROPEL TO TRANSIT

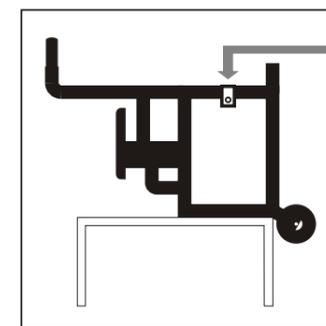


Figure 3.7.1

Step 1: Remove the hangers, quick-release wheels and axles. Place wheelchair on bench/table or floor as shown in fig 3.7.1.

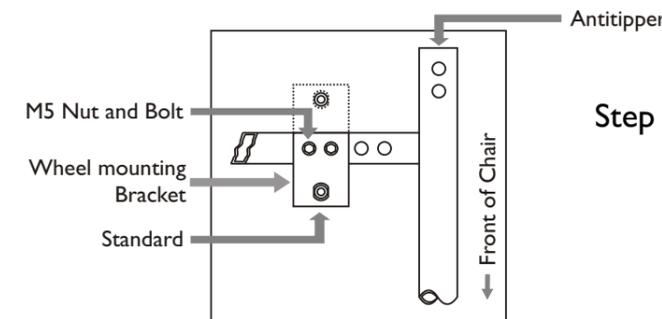


Figure 3.7.2

Step 2: Remove the two M6 nuts and bolts located on the axle block with a 5mm allen key and 10mm spanner (as supplied in Karma tool kit). Remove the existing axle blocks. Mount the new transit block in front of the antitipper and replace the two nuts and bolts into the smaller holes.

Step 2(cont): down the quick-release mechanism (see fig 3.2).

Step 3: Pull the wheel off.

3.2.2 To attach the rear wheel

Step 1: Ensure that the brake is in the OFF position.

Step 2: Take up the assembled wheel and axle and press the button in the centre of the axle. This retract the ball bearings that will allow you to push the axle into the wheel bracket that is located on the lower rear frame of the wheelchair.

Step 3: Remove your thumb from the button on the axle, the ball bearings should now be visible protruding from the axle at the back of the wheel bracket. The wheel should now be secured safely in the frame.

3.3 FITTING AND ADJUSTING A STUMP SUPPORT



Figure 3.3

Step 1: Remove the standard footrest by pulling the release lever and rotate the footrest until it faces outwards. Lift and remove.

Step 2: Locate the stump support onto the frame lugs (at about 90 degrees to the side of the frame) and rotate it inwards until the support locks into place.

Step 3: To adjust the height, undo the bolt located on the bar underneath the stump support, lift the support until the desired height is achieved, replace the bolt and tighten.

3.4 FITTING AND ADJUSTING AN ELEVATING LEGREST



Figure 3.4

Step 1: Remove the standard footrest by pulling the release lever and rotate the footrest until it faces outwards. Lift and remove.

Step 2: Locate the elevating legrest onto the frame lugs (at about 90 degrees to the side of the frame) and rotate it inwards until the legrest locks into place.

3. MINOR WHEELCHAIR ADJUSTMENTS

3.1 ADJUSTING ARMREST HEIGHT

Standard flip-back armrest:

The armrest flips back by pressing the release lever located at the front base of the armrest. After you press the release lever (fig 3.1.1), you can lift the armrest backwards.



Figure 3.1.1



Figure 3.1.2

To adjust the height of the armrest, simply pull out the silver bolt located underneath the armrest pad (see fig 3.1.3) and hold onto it whilst adjusting the height of the armrest. Release silver bolt once desired height is achieved to securely lock armrest back in place (see fig 3.1.4).



Figure 3.1.3



Figure 3.1.4

3.2 QUICK RELEASE REAL WHEELS

3.2.1 To remove rear wheel ensure the brake is off.

Step 1: Support the weight of the wheelchair with one hand by holding the push handle.

Step 2: Push the hub cover and hold



Figure 3.2

2.1.3 Footrest Adjustments

Footrest Removal and Refitting

To remove the footrest push/pull the release lever and rotate the footrest until it faces outwards. To lift off, pull upwards.

To refit, locate the footrest unit onto the frame lugs (at about 90 degrees to the side of the frame) and rotate it inwards until the unit locks into place (you will hear a click).

CAUTION: The occupant's leg must be supported or resting safely, while executing the above adjustments.

To adjust footplate height



Step 1: To adjust footplate height, use tool provided to loosen the bolt at the bottom of the footrest stem.

Step 2: Adjust to the required height and retighten.

2.1.4 Antitip bars for wheelchair

NOTE: For the users safety, these must be fitted.



To fit: Depress rear location button on the antitip bar and slide into rear of frame tube. The front button **MUST** engage through the hole in the frame. Check antitip is secure by attempting to push backward and forward. Follow these instructions to fit the antitip bar on the other side of the wheelchair.

2.2 GETTING IN AND OUT

2.2.1 Getting in

Step 1: Engage both brakes.

Step 2: Lift up the footplates and swing footrest to the side.

Step 3: The user should now lower themselves into the seat using the armrests as supports (if possible).

Step 4: Push the footplates back down and re-locate the footrests so that

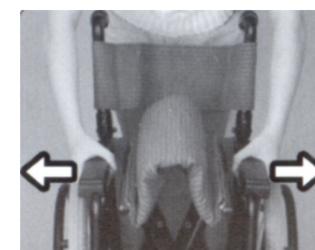
2. WHEELCHAIR OPERATION

2.1 PREPARING FOR USE

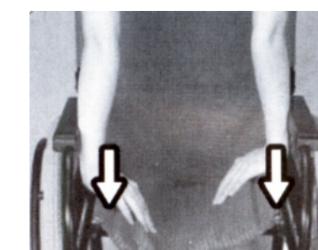
2.1.1 Unfolding the wheelchair

Step 1: With the wheelchair in front of you, take hold of both the armrests and pull them apart until the backrest is almost completely open.

Step 2: Place hands on the top of the seat support rails with your fingers pointing inwards and push down until the seat is completely open and the seat rails are fully located in the retaining cups.



Step 1



Step 2

CAUTION: When completing step 2, never put your fingers around the sides or under the chair as they can become trapped between the seat rail and the frame.

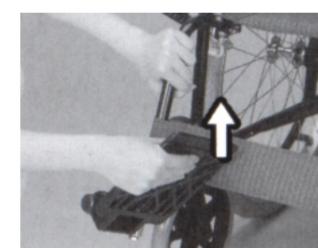
2.1.2 Folding the wheelchair

Step 1: Flip up the footplates.

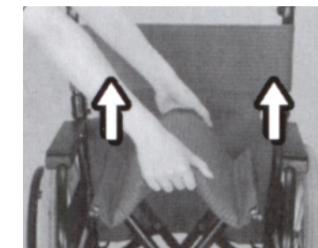
Step 2: Un-velcro the backrest from the seat.

Step 3: Put fingers under the middle of the seat at both front and rear, grasp and give a sharp pull upwards until the wheelchair is nearly closed. Never grasp from the sides.

Step 4: Push the armrests together.



Step 1



Step 3



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October 2022. This information is correct at the time of printing.
From time to time, product specifications are changed by manufacturers without prior notice.