

karma

User manual
KM-AA20 Series



CE UK
CA

A Better Wheelchair, A Better Fit

GENERAL WARNING

- DO maintain your chair well, in particular check the tyre pressure since this affects the efficiency of the brakes.
- DO make sure both brakes are applied before getting in or out of the chair.
- DO make sure both brakes are applied when the chair is not being pushed or used.
- DO take care when climbing kerb or turning on slopes.
- DO avoid steep or uneven surfaces that may cause the chair to tip over.
- DO avoid soft surfaces because the castors may become bogged down.
- DO travel smoothly in all conditions.
- DO look well ahead to anticipate hazards such as furniture, doors, potholes, slopes, kerbs, doorways etc.
- DO make sure that both feet are safely on the footrests and that clothing is safely tucked out of the way so that it cannot get caught in the wheels.
- DO take care when travelling up or down or across inclines.
- DO keep both hands on the push handles to control the chair, if you are the attendant.
- DO pay attention to keep the chair's balance.
- DO check the frame and components regularly and refer to this user guide during and after the warranty period.
- DO tie-up the upholstery or replace which with a new one when it becomes loose.
- DO equip with anti-tippers to avoid falling backwards.
- DO equip with a seat belt designed for disabled people.
- DO equip with "heel loops" for disabled people.
- DON'T overload the chair under any circumstances.
- DON'T hang anything heavy on the back of the chair that could cause the chair to become unstable, particularly when negotiating inclines.
- DON'T allow more than one user at a time.
- DON'T use with an unconscious patient.
- DON'T use other transport to pull the wheelchair.
- DON'T do "wheelies", since you may fall or tip over backwards and suffer a severe injury.
- DON'T go too fast or turn too quickly.
- DON'T travel across a slope greater than 7 degrees.
- DON'T stand on the footplates when getting in or out of the chair.
- DON'T go down steps forward.
- DO NOT attempt to lift the wheelchair by any removable (detachable) parts. Lifting by means of any removable (detachable) parts of the wheelchair may result in injury to the user and/or assistant or damage to the wheelchair.
- Do NOT use the wheelchair when the back is folded. This alters the centre of gravity and may cause the wheelchair to tip backwards. The back should only be folded for storage or transport of the wheelchair.
- DO NOT hang anything on the back joint that could cause the backrest folding suddenly and may cause injury.

YOU AND YOUR KARMA SERVICE PROVIDER

- No tools are required for assembly. Your wheelchair should be set up by your authorized Karma dealer. Your authorized Karma dealer is also your service provider. Unauthorized repairs, upgrades and add-ons will negate your warranty and may lead to injury. Any adjustments to the rear wheel position should be carried out by your authorized Karma service provider. Your Karma service provider has the necessary service/maintenance manual for your wheelchair.
- If you have any defective parts or lose any parts, please contact your dealer for repair and/or replacement. Please only use parts authorized by Karma. Use of parts that are not authorized by Karma will negate your warranty.
- Customers should order parts through their dealer as well as all repairs and scheduled maintenance.
- Customers should go to their dealership for all service needs to guarantee their warranty is not nullified. Always go to an authorized service provider. Unauthorized repairs will nullify your warranty. Procedures other than those described in this manual must be performed by a qualified technician. They also have the service manual with a complete list of maintenance required to keep your Karma wheelchair in good working order. Check the warranty section of this manual to find out what Karma guarantees and what maintenance and parts you will have to pay for.
- Karma does not have an official list of service providers at this time. Please contact your dealer for service. If you cannot contact your dealer, please contact another authorized Karma dealer for service. If this is not possible please contact us and we will arrange for a service repair. Please note that there will be a charge for collection and delivery of your wheelchair.

CE MARKING

This wheelchair complies with the requirements of the Medical Devices Directive 93/42/EEC.



CAUTION:

Before purchasing and using Karma wheelchairs, please consult qualified professionals so as to ensure that you choose suitable products and use them correctly as well. For safety reasons, if there is any risk due to the user's movement in the wheelchair or other environmental factors that might cause the wheelchair to tip or the person on the wheelchair to fall off (ex. Amputee...), Karma recommends that you install anti-tippers, safety belt, or other additional safety accessories.




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1. PREFACE

Please carefully read this owner's manual before using the wheelchair. Improper use of the wheelchair could result in harm or injury. Therefore, for safe and enjoyable use of the wheelchair, please read this owner's manual.

- This owner's manual includes operation instructions for the aspects of the wheelchair, unfolding/folding instructions and instructions on how to deal with possible accidents.
- This owner's manual is written for Karma wheelchair: KM-AA20 series.
- The symbols used in this manual are explained below. Pay special attention to the parts marked with these symbols.

	WARNING:	Improper use could lead to serious injury or death.
	CAUTION:	Improper use could lead to serious injury and/or damage to your wheelchair.
	SUGGESTION:	Follow these instructions to keep the wheelchair in good condition.

- This manual includes a repair and maintenance chart as well as details of your warranty.
- If someone else uses the wheelchair, make sure that you give them this owner's manual for his or her reference.
- As designs change, some illustrations and pictures in this manual may not correspond to the wheelchair that you purchased. We reserve the right to make design modifications without further notice. This manual will be updated regularly please refer to the Karma website for the latest version.

2. SAFETY

2.1 Doorways

The safest way to operate the chair is on level floors that are free of obstacles. Whenever possible use a ramp to enter or exit a facility. Keeping your hands on the push rims will allow you to maintain maximum balance. Do not try to force yourself over an obstruction by propulsion and never use the sides of a doorway to pull yourself through a passageway.

2.2 Leaning

Do not lean over the side of your wheelchair since such an action may cause you to lose balance and fall. (See Figure 2.2)

2.3 Navigating Inclines

- Never turn on a hill due to the danger of tipping.
- When pushing a wheelchair, go straight up a slope. If you need to go down, walk backwards until user is on level ground. (See Figures 2.3 and 2.4)
- Avoid stopping on an incline; it can potentially cause you to lose control of the chair.
- Do not use the parking brakes to slow down or stop the wheelchair; this could cause it to seize up or pull to one side, causing you to lose control of the wheelchair.
- Whenever possible, navigate inclines with an attendant.
- Operating limits: do not attempt to go up or down slopes greater than 5 degree without assistance.

2.4 Kerbs (Curbs)

- Whenever possible get help from an assistant/attendant (if you have assistance make sure that your chair is equipped with push handles).
- Avoid hard impacts when descending a kerb (curb). A hard impact could adversely affect the chair.
- Never try to scale or descend kerb that exceed a normal height (30-50mm).
- Always be careful when climbing kerb and never move up or down a curb in reverse without an assistant.

2.5 Stairs

- Always use two or more assistants. Tilt the wheelchair to its point of equilibrium. One assistant (at the back) holds the wheelchair up against the first step, gripping the handles firmly to lift. The second assistant, holding firmly a fixed part of the front frame, lifts the wheelchair above the stairs and holds it while the first attendant places one foot on the following step and repeat the operation (See Figure 2.1)
- Never go down steps forwards.
- Never use an escalator for transport, use an elevator.

2.6 Streets

- Always use extreme caution when crossing streets. Reflective tape on the chair and/or your clothing will make you more visible to drivers.
- Avoid potholes and rough terrain that might cause the castors to become stuck. (See Figure 2.5)

2.7 General

- Always make sure BOTH brakes are applied before getting in or out of the chair.
- Never stand on the footplates when getting in or out of the chair.
- Never carry more than one passenger. Karma wheelchairs are designed for one user.
- Please make sure your clothing does not get caught in the rear wheels.

2.8 Upholstery

- When cleaning the upholstery, use warm water and a mild soap.
- Upholstery cleaner/foam can also be used, but avoid other cleaning solvents.

2.9 Maximum User Weight Limit

The KM-AA20 series is suitable for users weighing not more than 100kg. Please note loads exceeding maximum capacity can damage your wheelchair and cause malfunctions creating a safety hazard. The warranty does not cover damage caused by improper operation of the wheelchair.

2.10 Avoid General Misuse:

- Please note any vehicle can cause injury if used incorrectly. This user guide contains a number of cautions. Please follow these guidelines to increase your safety. Please be aware that careless use endangers your own safety as well as that of others. ALWAYS follow the Highway Code when outdoors and the guidelines written in this manual. Your wheelchair will give years of safe use if used sensibly and carefully.
- Do not let children stand or play on the wheelchair. (See Figure 2.6)



Figure 2.1



Figure 2.2



Figure 2.3



Figure 2.4



Figure 2.5



Figure 2.6

2.12 Labelling

Please carefully read all the labelling on the wheelchair before using it. Please do not remove them and protect them for future reference.



1

karma		CE
KARMA MOBILITY, S.L.		
EC	REP	
C/ PERIODISTA FRANCISCO CARANTORRA DUBERT, 23 990 33209 GIJÓN - ASTURIAS (SPAIN)		
Tel: (+34) 984 390 907 E-mail: karma@karmamobility.es		
KARMA MEDICAL PRODUCTS CO., LTD.		
NO. 2363, SEC. 2, UNIVERSITY RD., MIN-HSIUNG SHIANG, CHIA-YI HSIEN, TAIWAN R.O.C.		
WARNING! USE ONLY ON STABLE SURFACES		
MAXIMUM USER WEIGHT 100kg(220lbs)		
		i

2



karma SERIAL NO. M12-1234

3

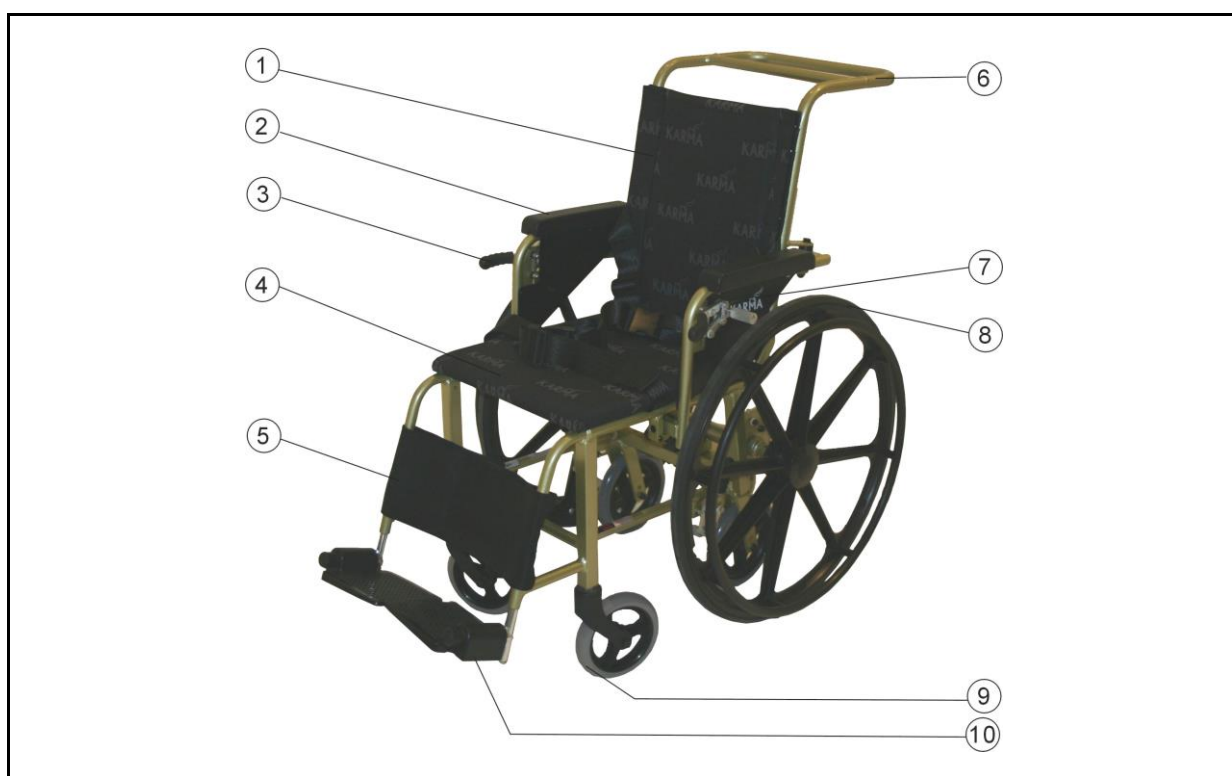
Model:	
Order No.:	
Delivery Date:	
Sewing No.: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	
Seat Width	Seat Depth
<input type="checkbox"/> 13	<input type="checkbox"/> 13
<input type="checkbox"/> 14	<input type="checkbox"/> 14
<input type="checkbox"/> 15	<input type="checkbox"/> 15
<input type="checkbox"/> 16	<input type="checkbox"/> 16
<input type="checkbox"/> 17 <input type="checkbox"/> 0	<input type="checkbox"/> 17 <input type="checkbox"/> 0
<input type="checkbox"/> 18 <input type="checkbox"/> 5	<input type="checkbox"/> 18 <input type="checkbox"/> 5
<input type="checkbox"/> 19	<input type="checkbox"/> 19
<input type="checkbox"/> 20	<input type="checkbox"/> 20
<input type="checkbox"/> 21	<input type="checkbox"/> 21
<input type="checkbox"/> 22	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____
karma	Unit: inch

3. INTENDED USE & PARTS

3.1 Intended Use

- The KM-AA20 series is a self-propelled or transit wheelchair. That is, it can either be propelled by an attendant (transit) or by the user (self-propelled).
- The KM-AA20 series is a specific use wheelchair at airport. The big rear wheels can be detached for entering cabin. The flip-back armrest is convenient for user to transfer.
- The KM-AA20 series is suitable for users up to 100kg in weight.
- The KM-AA20 series is an adjustable wheelchair. It is suitable for users who require side transfer. The detachable parts are easy to operate.
- It has solid tyres. It also has an extremely durable aluminium alloy frame with tough accessories and does not suffer in dramatic extremes of temperature (neither user nor attendant need touch metal parts in normal use).
- The casters have PU tyres for greater durability; pneumatic casters are available on request.

3.2 KM-AA20 Parts Description



1. Backrest Upholstery	6. Push Handle
2. Armrest	7. Side Panel
3. Brake	8. Rear Wheel
4. Seat Upholstery	9. Castor
5. Calf strap	10. Footplate

4. OPERATION

4.1 Preparing For Use

4.1.1 Safety Belt

Adjusting length of seat belt

- Identify the require length of the belt. (Figure 4.1)
- Push the two part of belt through buckle to make the belt longer or shorter. (Figure 4.2)
- Pull the two part of belt tight. (Figure 4.3)
- Push buckle up to the plastic clip so that the belt can not slip out of position. Please check that there is no gap between the clip and buckle. (Figure 4.4)



SUGGESTION:

We recommend that the belt is fitted quite tightly around the pelvis. Please tighten until you can just get your fingers between user and seat belt. Please check that the belt is fastened correctly as recommended. If this is not possible please consult your supplier.



Figure 4.1



Figure 4.2



Figure 4.3

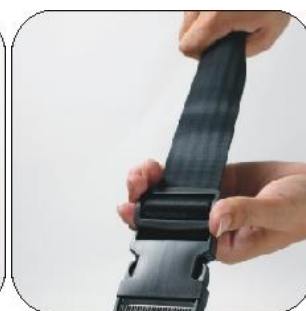


Figure 4.4

How to operate it:

- When you sit on the wheelchair, fasten the safety belt. (Figure 4.5, Figure 4.6)
- Adjust the belt and make it fit your body for comfort and security.
- When you don't use it, please fasten the belt to avoid the belt dropping into rear wheels during motion.

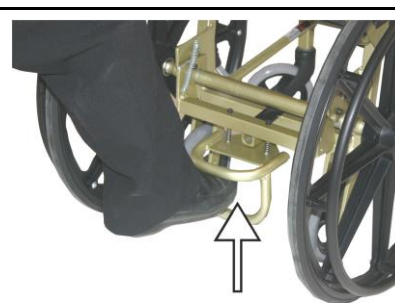


Figure 4.7

4.1.2 Rear Wheel

4.1.2.1 How to Detach Rear Wheel

- Pull up the release lever with foot, and the wheels remove to back. (Figure 4.7)

4.1.2.2 How to Attach Rear Wheel

- Align and put the rear wheel axle to rear wheel hold hook both side. (Figure 4.8,4.9)
- Push down the release lever with foot, and the rear wheels axle will engage to the rear wheel holder. (Figure 4.10)



Figure 4.8



Figure 4.9



Figure 4.10



CAUTION:

Except on the aisle in an airplane, please always use large rear wheels in all occasions.

4.1.3 Brake

- Brake of large rear wheels is pull-up to brake. (Figure 4.11)
- Brake of small rear wheel is push-down to brake. (Figure 4.12)

4.1.4 Armrest

4.1.4.1 How to Remove Armrest

- 1.Press the release lever and pull it to outward to remove the armrest to back. (Figure 4.13,4.14)

4.1.4.2 How to Attach Armrest

- Swing the armrest to inward to attach. (Figure 4.15)



Figure 4.11



Figure 4.12



Figure 4.13



Figure 4.14



Figure 4.15

4.1.5 Footplate

- 1. Footplate can swing up, which makes transferring easier. (Figure 4.16)
- 2. To adjust footplate height use the Karma tool provided to loosen the bolt at the end of the footrest arm. (Figure 4.17)
- 3. Adjust to required height and re-tighten. (Figure 4.18)



Figure 4.16



Figure 4.17



Figure 4.18



Figure 4.16



SUGGESTION:

- Make sure that the footplate height is adjusted properly according to the user's calf length to reduce pressure on the body.
- The footrest height must be more than 5cm. (Figure 4.19)

4.1.6 Transportation and Storage

Make sure the wheelchair is folded when stored.



SUGGESTION:

Please store the wheelchair in a location where it is out of direct sunlight, rain and dew. For more details, consult your Karma dealer.



WARNING:

Don't put anything on the wheelchair while it is in storage. Storing goods on a folded wheelchair will cause damage and is not covered under warranty. (See Right Figure)



4.2 Transferring In and Out

4.2.1 Transferring In

- Engage both hand brakes.
- Turn the footplates up and swing them to the side.
- Lower the user into the seat, allowing them to use the armrests for support.
- Turn the footplates back down, so that the user can place his feet on them. Ensure that the heels rest against the heel supports to prevent contact with the castors.
- Release both hand brakes.



CAUTION:

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

4.2.2 Transferring Out

- Make sure that the chair is near your final destination.
- Move the wheelchair backwards so that the castors are pointing forwards and are in line with the rear wheels. Ensure that, where possible, the rear of the chair is against a wall or, if not, it must be firmly held by an attendant.
- Engage both hand brakes.
- Turn the footplates up and swing them to the side.
- Slide forwards on the seat. Place one foot firmly on the ground with the knee at a right angle and the other foot slightly apart and further back.
- 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.
 - Some people have to side transfer.
- Flip back your armrest, and make sure that the chair is near your final destination.
- Prop up your body and move sideward slowly, using transfer board. Be careful to hit the brake or other components of wheelchair.



CAUTION:

- Never stand on the footplates when getting into (or out of) the chair. (See Figure 4.20)
- When getting in and out of the wheelchair please use the hand brakes. The hand brake is the lever at the side of the wheelchair.
- Please ensure that neither the tread on your tyres nor the brake block has become too worn. If pneumatic tires are fitted, please maintain at the recommended tyre pressure for the same reason.
- Please ensure that occupant's fingers do not get caught in the brake.

When transferring in and out of the chair, make sure that the brakes are applied to prevent the chair from sliding away. Also see that the footplates are flipped up for ease of entering or exiting. (See Figure 4.21)

4.3 General Use

4.3.1 Attendant Pushing and Self Propelling

- Ensure that the brakes are always locked when the chair is not being pushed. (See Figure 4.22)
- Always make sure that both feet are safely on the footplates and that clothing is safely tucked out of the way and cannot get caught in the wheels. (See Figure 4.23)
- Always use both hands on the push handles to control the chair. (See Figure 4.24)
- Always avoid steep or uneven surfaces because the chair may tip over. (See Figure 4.25)
- Always avoid soft surfaces because the casters castors may get bogged down. (See Figure 4.26)
- Always be careful not to go too fast or turn too quickly and try to achieve a smooth steady ride.
- Before crossing the road, please stop completely and look both ways.
- Cross tracks or ruts at right angles to avoid your castors getting stuck.
- Do not drive at full speed over the railroad tracks.
- Please keep your hands and arms inside the wheelchair when going through doorways.

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



WARNING:

Never lock the brakes too suddenly as this may tip the user out of the chair.



Figure 4.20



Figure 4.21



Figure 4.22



Figure 4.23



Figure 4.24



Figure 4.25




Figure 4.26



Figure 4.27

4.3.2 Tilting by the Attendant

- Make sure both the user's feet are on the footplates and will not slip off. Make sure the handgrips are secure and cannot slip off.
- Release both brakes.
- Grasp both push handles firmly.
- Put your stronger foot on the relevant tipping tube at the back of the chair.
- Tell the person in the chair that you are about to tilt the chair backwards.
- Pull back with both hands and push down and forwards with the foot. This will bring the chair onto the back wheels. (See Figure 4.27)

 **CAUTION:**

- When a chair is tilted to about 25 degrees it will balance on its rear wheels and be easy to hold. If it is tilted further back it will be difficult to hold and the person in the chair will feel unsafe.
- Lower with a straight back; keep your foot on the anti-tipper and lower the chair slowly forwards softly to the ground.

4.3.3 Tilting by the User

- Make sure your feet are on the footplates and will not slip off.
- Release both brakes.
- Grasp both push rims and give a firm, sudden forward push immediately before the obstacle, continue the momentum (be ready to keep pushing) until the obstacle is mounted.



CAUTION:

- This method should only be attempted by people experienced in wheelchair use. Strong arms are also necessary. It is always better to have the help of an attendant.
- Leaning backwards causes the castors to rise higher BUT it is much safer to lean forwards and stay balanced.

4.3.4 Going Down Kerbs (Curbs)

Please note: It is always better to avoid kerbs where possible by using ramped curbs kerbs or slopes and this operation is best attempted with the aid of an attendant.

4.3.4.1 Going Down Kerbs (Curbs) Forwards With an Attendant



CAUTION:

- This is the more difficult method and can jar the user but allows a better view of traffic.
- Be careful that the anti-tipper does not get caught on the kerb (curb) causing the user to fall.

NEVER ALLOW THE CHAIR TO TIP FORWARDS WHEN GOING DOWN A KERB (CURB).

- Position the chair so that the front castors are near the edge of the kerb (curb) and make sure that the road is clear.
- Move the chair slowly and carefully forwards while tilting it back slightly. Be ready to take the weight when the rear wheels cross the kerb (curb) edge. Ensure that both rear wheels touch the ground at the same time to avoid tipping the chair.
- Gently lower the front castors (casters). AVOID JARRING THE USER.

4.3.4.2 Going Down Curbs Backwards With an Attendant



CAUTION:

This is the easier and smoother method BUT it requires the attendant to step backwards into the road.

- Back the chair to the kerb edge and be careful that the back wheels are equally near the edge.
- Grasping the push handles, gently lower the rear wheels onto the road. Be prepared to control the weight as it descends and ensure that the back wheels touch ground at the same time.
- Tilt the chair back slightly and pull the tilted chair far enough into the road so that the castors and footrests can be lowered clear of the kerb (curb).

4.3.5 Going Up Kerbs (Curbs)

Please note: This operation is best attempted with the aid of an attendant and the best method is to go up kerbs forwards as this maintains the direction of travel and is physically less demanding for the attendant.

4.3.5.1 Going Up Kerbs (Curbs) Forwards With an Attendant

- As the footrests nearly touch the kerb (curb) tilt the chair. The chair should be tilted just high enough to allow the front casters to roll smoothly onto the pavement.
- Push the chair forward until the rear wheels are touching the curb. Then, continuing the movement, lift at the push handles while moving the chair forwards.

4.3.5.2 Going Up Kerbs Backwards With an Attendant

Please note: for safety's sake we do not recommend using this method.

4.3.6 Up and Down Steps/Stairs

Please note: avoid flights of steps particularly if no extra help is available. Use ramps or lifts wherever possible.

Two attendants are necessary, each capable of carrying at least half of the combined weight of the person and the wheelchair.

Each helper should bend at the knees and grip the main frame: with the front attendants hands just under the front of the seat, with the back attendants' hands holding the frame just under the push handles.



CAUTION:

Don't attempt to lift the wheelchair by any removable (detachable) parts. Lifting by means of any removable (detachable) parts of wheelchair may result in injury to the user and/or assistant or damage to the wheelchair.



CAUTION:

When transporting or lifting, never hold on to attachments or accessories (front/rear wheels, handrims, castors, footrests, armrests, anti-tippers etc.).

All lifting should be done with a straight back. Straight legs to lift the chair. Carefully carry it up or down steps; be aware of how you place your feet, do not cross them and trip yourself up.

5. INSPECTION AND MAINTENANCE

5.1 General Check

Check the following items before travelling. If you find anything abnormal, visit your Karma wheelchair dealer for further inspection before using it.

- Examine brakes, checking for wear, damage and misalignment. Replacing or adjusting the brakes should be carried out by your approved repairer.
- Check that the hand grips are not damaged and are securely bonded to the push handles.
- Check anti-tippers are not damaged and are securely attached.
- Check that the anti-tippers' wheels and frame are not damaged and are securely mounted.
- When the wheelchair used for a while, the user need to check the bolts and nuts are tight. Check all parts for damage or wear and have a qualified technician replace it if necessary. Check all parts for proper adjustment.
- Inspect brakes for proper operation.
- The wheels and tires tyres should be checked periodically for cracks and wear, and should be replaced by a qualified technician.
- A qualified technician can be found with an authorized distributor/dealer.



CAUTION:

Visit a Karma wheelchair dealer for inspection and maintenance if you find anything abnormal.

5.2 Regular Maintenance Record

To make sure your wheelchair is in good condition, visit your Karma wheelchair dealer regularly for maintenance (and keep records accordingly) every six months after purchasing.

A maintenance/service fee may apply.



SUGGESTION:

Even if you don't use the vehicle for a long time, the wheelchair should still be maintained annually.

Item	Weekly	Monthly
GENERAL		
● Wheelchair rolls straight (no excessive drag or pull to one side)		V
FRAME AND CROSS BARS		
● Inspect frame structure for small cracks/fissures		V
● Inspect for bent frame or cross bars		V
BRAKES		
● Do not interfere with tyres when rolling		V
● Pivot points free of wear and looseness		V
● Easy to engage	V	

● Prevent chair from moving when engaged	V	
SEAT & BACKREST		
● Inspect for rips or sagging	V	
● Inspect for loose or broken hardware, such as the frame and etc.		V
CASTORS (CASTERS)		
● Inspect the castors for smooth rotation		V
● Inspect the caster castor for wear in the bearings/mountings and for tire wear or damage		V
REAR WHEELS		
● Quick-release axles lock properly; lubricate if necessary	V	
● No excessive side movement or binding when lifted and spun		V
● Inspect for cracked, bent or broken spokes	V	
ARMRESTS		
● Inspect the detachable armrest button for effective locking		V
● Make sure the armrest detaches and flips back properly		V
FOOTRESTS		
● Inspect the footplate height adjustment screws are securely tightened		V
● Inspect the swing-away footrest release lever for effective locking		V
TYRES		
● Inspect for flat spots, cracks and wear	V	
● If pneumatic tyres, check for proper inflation	V	
● Check tyre tread depth is more than 1mm		V
● Check tire pressure; tyre pressures are located on the side of the tyre	V	



CAUTION:

Never disassemble or modify the wheelchair frame structure. Otherwise, injury or damage may occur. This will negate the warranty.

6. TROUBLESHOOTING

Trouble or Problems with Your Wheelchair

You can inspect the following before taking your wheelchair to a Karma wheelchair dealer.

Problem	Checking Points and Corrective Action
Chair Veers Right/Left	<ul style="list-style-type: none"> • Check tires tyres for correct and equal pressure • Check caster bracket angle • Check that rear wheels are equally spaced from the seat frame
2. Sluggish Turn or Performance	<ul style="list-style-type: none"> • Check tyres for correct and equal pressure • Check for loose nuts and bolts
3. Caster Flutter/Wobble	<ul style="list-style-type: none"> • Check tyres for correct and equal pressure • Check for loose nuts and bolts • Check caster bracket angle
4. Squeaks and Rattles	<ul style="list-style-type: none"> • Check for loose nuts and bolts
5. Looseness in Chair	<ul style="list-style-type: none"> • Check for loose nuts and bolts

If you cannot solve the problem by yourself, contact your Karma wheelchair dealer for help.

7. SPECIFICATIONS

Model	
Overall Length (mm)	990 with 24" wheel / 870 without 24" wheel
Overall Length (in)	(39 with 24" wheel / 34.3 without 24" wheel)
Overall Width (mm)	580 with 24" wheel / 540 without 24" wheel
Overall Width (in)	(22.8 with 24" wheel / 21.3 without 24" wheel)
Overall Height (mm)	905 with 24" wheel / 885 without 24" wheel
Overall Height (in)	(35.6 with 24" wheel / 34.8 without 24" wheel)
Total Weight (kg)	16.2 with 24" wheel / 11.5 without 24" wheel
Total Weight (lb)	(35.7 with 24" wheel / 25.4 without 24" wheel)
Seat Width	390 mm(15.4 in)
Seat Depth	420 mm(16.5 in)
Seat Height	485 mm(19.1 in)
Backrest Height	415 mm(16.3 in)
Armrest Height	190 mm(7.5 in)
Calf Length	NA
Overall Collapsed Length	990 mm(39 in)
Overall Collapsed Width	580 mm(22.8 in)
Overall Collapsed Height	905 mm(35.6 in)
Maximum User Weight	100 kg(220.5 lb)



Caution:

Please don't travel across a slope (in any direction) greater than 7 degrees.

8. CLEANING & RECYCLING

8.1 CLEANING

In order to lengthen the life of your wheelchair, it is suggested that you clean the wheelchair periodically (if not daily), especially after it is used in the rain or snow. We recommend that you don't use your wheelchair in the rain or snow. If you are travelling and get caught in the rain, we suggest you try to find shelter. If you can't find shelter, proceed to your destination.

Although your wheelchairs frame is aluminium, some parts such as screws nuts and spokes of wheels will rust if exposed to water. Please dry the wheelchair thoroughly if it is exposed to water. Please store in a dry place. Do not clean with an abrasive material.

8.1.1 Frame

Wipe with a damp cloth.

8.1.2 Upholstery

- When cleaning the upholstery, use warm water and a mild soap.
- Upholstery cleaner/foam can also be used, but avoid other cleaning solvents.

8.2 POST-CONSUMER RECYCLING

A post-consumer recycling plan should follow the Environmental Protection Administration's regulations. The items listed below are for reference only as local laws and regulations may vary.

Material	Part Name	Method
Aluminum-alloy	Frame	Recyclable
Plastic	Modular Components	Recyclable
Paper	Owner's Manual	Recyclable

- There are many organizations in many countries you can find on the Internet that will accept used goods for charity. Please search the information highway to help less fortunate individuals and protect our planet for future generations. If you do not have access to the world wide web please use your local phone directory, ask for operator assistance or go to your local government centre for more information. Earth Day is every day.
- Check with your local recycling centre on where and how to recycle your wheelchair as this information varies from region to region.

9. WARRANTY

9.1 Serial Number

To ensure after-sale service and warranty, please record and fill in the serial number which can be found on the frame.

Model	KM-AA20 series
Serial Number	

9.2 Warranty Policy

9.2.1 Contents and Duration of Warranty

- Repair will be provided free of charge if the problems are due to manufacturing or defective components within the warranty period (a repair of this kind will hereafter be called warranty repair).
- Warranty repairs can be performed by authorized Karma wheelchair dealers only.
- Karma is not responsible for the transportation costs for repair and replacement.
- Replaced parts will be the property of Karma.

9.2.2 Items Not Covered by Warranty

- Irregularities that do not affect function and safety of product.
- Damage resulting from normal wear and tear.
- Problems arising due to lack of basic maintenance and self-inspection.
- Damage resulting from use not following operation guidelines.
- Installation or use of parts not manufactured by Karma.
- Damage resulting from use in unsuitable environments, refer to the statements in this manual.
- Any addition, modification, or alteration not authorized by Karma.
- Damage resulting from external factors such as chemicals, oil, debris, etc.
- Natural disaster.

9.2.3 Karma is Not Responsible for The Following Costs

- Replacement or refill of consumable parts, oil, lubricant.
- Inspection, adjustment, cleaning, etc.
- Karma designated self-inspection costs.

9.2.4 Responsibilities

9.2.4.1 The Responsibilities of the User

- Fully adhere to operation guidelines set forth in this manual.
- Perform self-inspection and basic maintenance.
- Keep a record of self-inspections and basic maintenance.
- Not permit any alteration, addition, or modification or use of parts not manufactured by Karma.
- Thoroughly read and understand this manual.

9.2.4.2 The Responsibilities of the Dealer

- Follow this manual and educate user about product operation and basic maintenance.
- Verify whether or not conditions of warranty have been met.
- Provide relevant warranty information and recommendations for improvements.

9.2.5 Stipulations

Consumables such as tires, front casters, seat cushions, backrest cushions, etc. are not covered by the warranty.

9.2.6 Warranty Duration and Parts Covered by the Warranty

Please contact your local dealer.

9.2.7 Transfer of Warranty Rights

If you purchase a second-hand Karma wheelchair while it is still within the warranty period, bring this owner's manual and the wheelchair to the dealership where the wheelchair was purchased for registration.

Full name:	
Gender:	
Date of Birth:	
Address:	
Model:	
Serial Number:	
Date of Purchase:	

Dealer's Data

Name of store:	
Telephone and Address:	

If you have any suggestions on how to improve our products, please don't hesitate to contact your local dealer to let us know what you think of your wheelchair. Thank you and enjoy.

karma

A Better Wheelchair, A Better Fit



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