

Manual Wheelchair Maintenance Manual

KM-8022/KM-8522 series







Introduction

This manual contains basic detail information about the Removal / Replacement for **Karma KM-8022/KM-8522** series to enable Karma's authorized dealers to provide better after service. It is not intended to be a comprehensive maintenance guide or provide detail assembly/disassembly of the products. The parts and names may be different from countries to countries due to the area difference and customers' spec selection. The step, therefore, may be not the same. If you need to inquire more detail information, please contact Karma. Karma reserves the rights to modify the contents without prior notification.

1. This wheelchair is designed and manufactured by:

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- 2. For after service, including repairs, service and spare parts demand, please contact the dealer shop where you purchased the products.
- 3. Please quote the following information at all times:
 - Part section and Part Number
 - Part Name/Description
 - Quantity required
- Warranty Policy- Do use the parts Karma provides to meet the requirement of product quality and warranty policy. For more detail, please refer to user manual / distribution contract
- 5. Technical Data
 - 5.1 Seat Width/ Depth Options: Refer to user manual.
 - **5.2 Wheels Options (Caster X Rear Wheels):** Refer to section 3.1 and 3.2.

5.3 Limited Loading Weight: 130KG

6. Accessories

- Footrest: Amputee support / 90 degree footrest/ Footrest extension kit
- Footplate: Angle adjustable footplate / Aluminum footplate
- Others: Multi-function safety / Backrest bag / Lateral backrest support bar / Tension adjustable backrest upholstery / Tension adjustable seat upholstery / Net sack /1",2" Seat depth extension tube" (should adapt Footrest extension kit) / IV Pole/ Oxygen tank holder/

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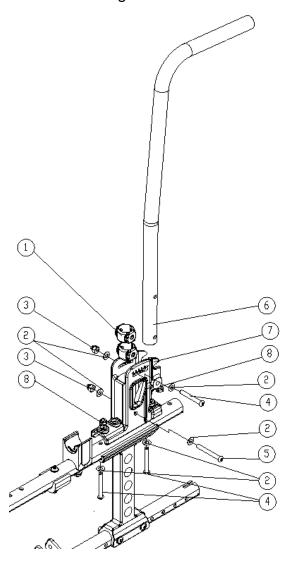
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1. Instructions of Replacement

1.1 Backrest

1.1.1 Backrest Frame

Figure 1.1.1



- 1. Backrest Tube Sleeve
- 2. M6 Flat Washer
- 3. Hex Nylon Dome Nut
- 4. Button Head Cap Screw M6*45L
- 5. Button Head Cap Screw M6*50L
- 6. Backrest Push Handle Tube-Lengthened
- 7. Backrest Tube Base KM-8022
- 8. Hex Nylon Nut

Tools:

- -4 mm L-shape Allen Key
- 10 mm open end wrench

Removal and Replacement:

- 1.1.1.1Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 4 and 5.
- 1.1.1.2 Remove part 6.
- 1.1.1.3Re-assembly is done in reverse order.

Key Inspection:

- Make sure all screws are properly tightened.
- 1.1.2 Backrest Upholstery

Figure 1.1.2

1 2 3

2 3

3 3

- 1. Backrest Upholstery
- 2. Backrest Upholstery Two Holed Arc Washer
- 3. Button Head Phillips Tap Screw

Tools:

- Philips screwdriver

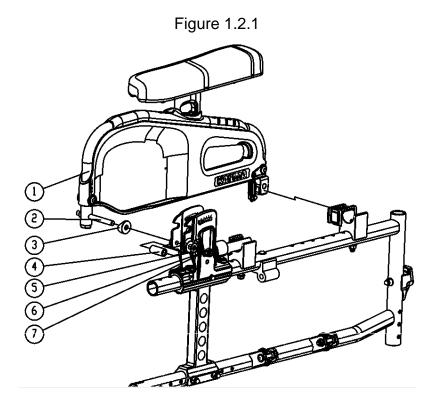
Removal and Replacement:

- 1.1.2.1 Use a Philips screwdriver to loosen part 3.
- 1.1.2.2 Remove part 2 and part 1.
- 1.1.2.3 Re-assembly is done in reverse order.

Key Inspection:

1.2 Armrest

1.2.1 Flip-Back Armrest



- 1. Flip-back Elevating Armrest Assembly
- 2. M8 Socket Head Cap Screw
- 3. 7/8" Plastic Arc Washer
- 4. Armrest Clamp Bushing
- 5. M8 Flat Washer
- 6. M8 Spring Washer
- 7. M8 Hex Nylon Dome Nut

Tools:

- 13 mm open end wrench X 2

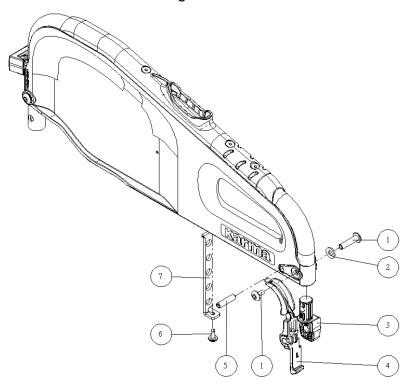
Removal and Replacement:

- 1.2.1.1 Use two 13 mm open end wrenches to loosen part 2 and part 7.
- 1.2.1.2 Replace part 1.
- 1.2.1.3 Re-assembly is done in reverse order.

Key Inspection:

1.2.2 Side Panel Assembly

Figure 1.2.2



- 1. Screw Binding Post Set
- 2. M6 Plastic Washer
- 3. Side Panel Positioning Part
- 4. Side Panel Lock
- 5. Spring Pin
- 6. Truss Phillips Tapping Screw
- 7. Armrest Elevating Bracket

Tools:

- 4 mm L-shape Allen Key x2
- Philips Screwdriver
- -Ф6 Rod
- Hammer

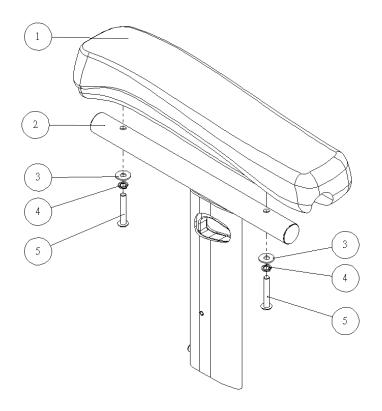
Removal and Replacement:

- 1.2.1.1 Use Philips screwdriver to loosen part 6 and remove part 7.
- 1.2.1.2 Use 4 mm L-shape Allen Key to loosen part 1 and remove part 3.
- 1.2.1.3 Use rod and hammer to remove part 5 and replace part 4.
- 1.2.1.4 Re-assembly is done in reverse order.

Key Inspection:

1.2.3 Height Adjustable Armrest Assembly

Figure 1.2.3



- 1. Ergo Armrest
- 2. Gold Trigger Elevating Armrest
- 3. M5 Flat Washer
- 4. M5 Spring Washer
- 5. M5 Button Head Cap Screw

Tools:

- 3 mm L-shape Allen Key

Removal and Replacement:

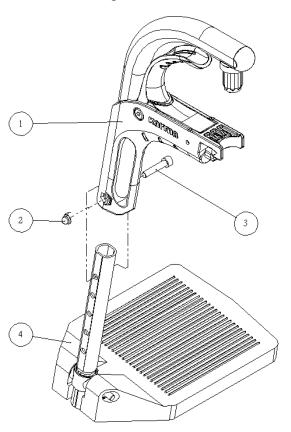
- 1.2.3.1 Use 3 mm L-shape Allen Key to loosen part 5. Remove part 1 and part 2.
- 1.2.3.2 Re-assembly is done in reverse order.

Key Inspection:

1.3 Footrest

1.3.1 Footplate

Figure 1.3.1



- 1. Grip Footrest
- 2. M6 Hex Nylon Dome Nut
- 3. M6 Hex Socket Head Cap Screw
- 4. Footplate

Tools:

- -4 mm L-shape Allen Key
- 10 mm open end wrench

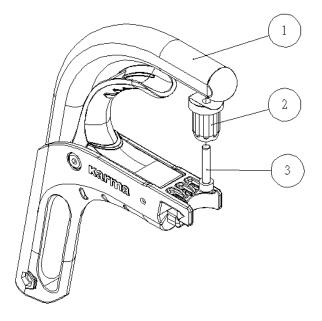
Removal and Replacement:

- 1.3.1.1 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 2 and part 3.
- 1.3.1.2 Remove part 4.
- 1.3.1.3 Re-assembly is done in reverse order.

Key Inspection:

1.3.2 Grip Footrest

Figure 1.3.2



- 1. Grip Footrest
- 2. Y-shaped Tube Plug
- 3. M6 Hex Socket Head Cap Screw

Tools:

-4 mm L-shape Allen Key

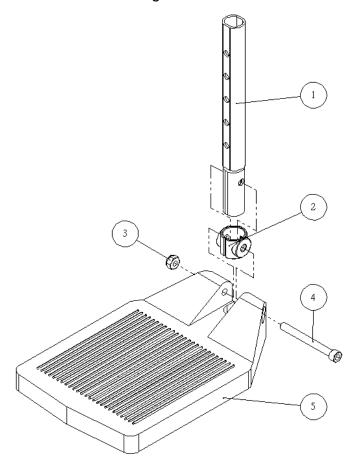
Removal and Replacement:

- 1.3.2.1 Use 4 mm L-shape Allen Key to loosen part 2.
- 1.3.2.2 Remove part 3.
- 1.3.3.3 Re-assembly is done in reverse order.

Key Inspection:

1.3.3 Footplate

Figure 1.3.3



- 1. Footplate Tube
- 2. Sleeve
- 3. 1/4" Nylon Lock
- 4. 1/4" Hex Socket Head Cap Screw
- 5. Footplate

Tools:

-5 mm L-shape Allen Key

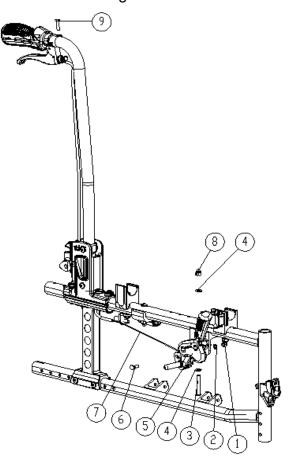
Removal and Replacement:

- 1.3.2.1 Use 5 mm L-shape Allen Key to loosen part 3 and part 4.
- 1.3.2.2 Remove part 5.
- 1.3.3.3 Re-assembly is done in reverse order.

Key Inspection:

1.4 Brake

Figure 1.4



- 1. M6 Hex Nylon Dome Nut
- 2. M6 Spring Washer
- 3. M5 Button Head Cap Screw
- 4. M5 Flat Washer
- 5. Brake
- 6. Brake Cable Bolt
- 7. Brake Cable
- 8. M6 Hex Nylon Dome Nut
- 9. M5 Button Head Cap Screw

Tools:

- -4 mm L-shape Allen Key
- 8 mm open end wrench
- 10 mm open end wrench

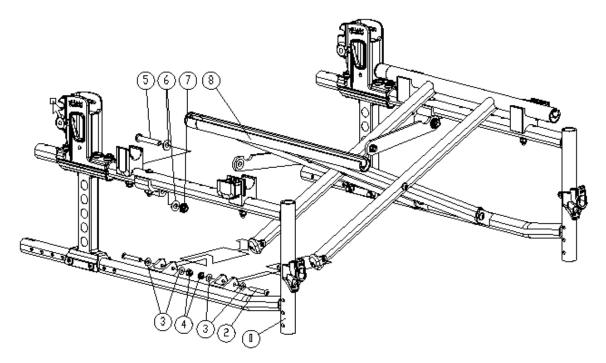
Removal and Replacement:

- 1.4.1 Use 8 mm open end wrench to loosen part 1.
- 1.4.2 Remove part 7.
- 1.4.3 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 3 and part 8.
- 1.3.4 Remove part 5.
- 1.3.5 Re-assembly is done in reverse order.

Key Inspection:

1.5 Frame

Figure 1.5



- 1. Side Frame
- 2. M6 Button Head Cap Screw
- 3. M6 Flat Washer
- 4. M6 Nylon Lock
- 5. M8 Button Head Cap Screw
- 6. M8 Plastic Washer
- 7. M8 Nylon Lock
- 8. Cross Bar-Slide Groove Type

Tools:

- -4 mm L-shape Allen Key
- -5 mm L-shape Allen Key
- -10 mm open end wrench
- -13 mm open end wrench

Removal and Replacement:

- 1.5.1 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 2 and part 4.
- 1.5.2 Use 5 mm L-shape Allen Key and 13 mm open end wrench to loosen part 5 and part 7.
- 1.5.3 Remove part 1 away from part 8.
- 1.5.4 Repeat steps from 1.5.1 to 1.53 for replacement of the other side.
- 1.5.5 Re-assembly is done in reverse order.

Key Inspection:

1.6 Wheels

Figure 1.6

- 1. Rear Wheel Assembly
- 2. Quick release axle
- 3. Caster Bracket Dust Cover
- 4. Nylon Lock Nut
- 5. 1/2" Flat Washer
- 6. Caster

Tools:

- 19 mm socket wrench

Removal and Replacement:

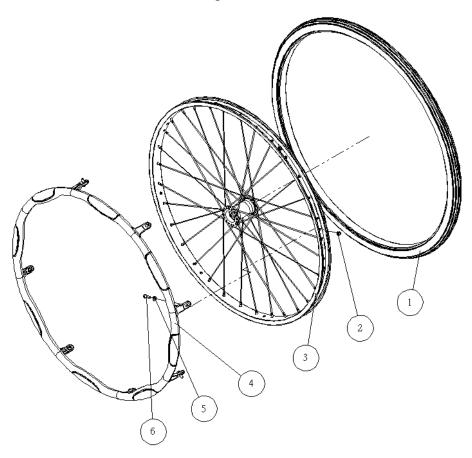
- 1.6.1 Press part 2 and pull out part 1 from the side frame.
- 1.6.2 Remove part 3.
- 1.6.3 Use 19mm socket wrench to remove part 4.
- 1.6.4 Remove part 6.
- 1.6.5 Re-assembly is done in reverse order.

Key Inspection:

After the replacement of wheels, do propel the wheelchair to assure it works smoothly without abnormal movement.

1.7 Rear Wheel Assembly

Figure 1.7



- 1. Tire
- 2. Nylon Lock
- 3. Rear Wheel Rim
- 4. Ergo Rear Wheel
- 5. M5 Flat Washer
- 6. Phillips Round Head Screw

Tools:

- -8 mm open end wrench
- -Tire spoon *2
- Philips screwdriver

Removal and Replacement:

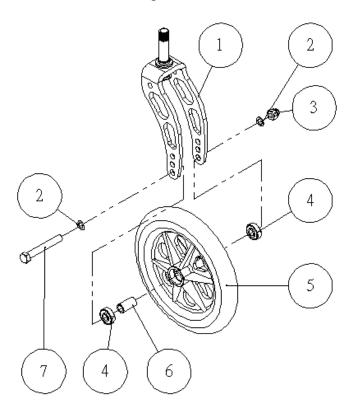
- 1.7.1 Use two tire spoons, one for either side of part 1, to remove part 1.
- 1.7.2 Use 8 mm open end wrench and Philips screwdriver to loosen part 2 and part 6.
- 1.7.3 Remove part 4.
- 1.7.4 Re-assembly is done in reverse order.

Key Inspection:

 After the replacement of tires or hand rims, do propel the wheelchair to assure it works smoothly without abnormal movement.

1.8 Casters

Figure 1.8



- 1. Long Vigor Fork
- 2. M8 Flat Washer
- 3. M8 Hex Nylon Dome Nut
- 4. Bearing
- 5. Caster
- 6. Caster Sleeve

Tools:

- 13 mm open end wrench *2

Removal and Replacement:

- 1.8.1 Use two 13mm open end wrench to loosen part 3 and part 7.
- 1.8.2 Remove part 5.
- 1.8.3 Re-assembly is done in reverse order.

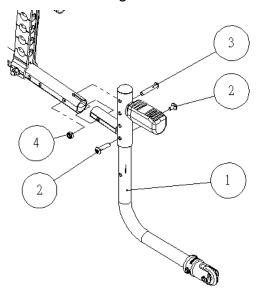
Key Inspection:

 After replacing casters, do propel the wheelchair to assure it works smoothly without abnormal movement.

2. Instructions of Replacement for Optional Devices

2.1 Anti-Tipper

Figure 2.1



- 1. Anti-tipper Assembly
- 2. Screw Binding Post Set
- 3. M6 Button Head Cap Screw
- 4. M6 Nylon Lock

Tools:

- 10 mm open end wrench
- 4 mm L-shape Allen Key *2

Removal and Replacement:

- 2.1.1 Use 4 mm L-shape Allen Key and 10mm open end wrench to loosen part 3 and part 4.
- 2.1.2 Replace part 1 by pulling out.
- 2.1.3 Use two 4 mm L-shape Allen Keys to loosen part 2.
- 2.1.4 Adjust part 1 by selecting an appropriate hole to install part 2..
- 2.1.5 Re-assembly is done in reverse order.

Key Inspection:

- Make sure all screws are properly tightened.
- Make sure the anti-tipper is 3-5cm high above the ground.

2.2 Tie Down Hook

Figure 2.2

10

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8

- 1. M8 Nylon Lock
- 2. M8 Flat Washer
- 3. Sleeve
- 4. M8 Button Head Cap Screw
- 5. Hook
- 6. M6 Flat Washer
- 7. M6 Button Head Cap Screw
- 8. Hook
- 9. Washer
- 10. M6 Nylon Lock

Tools:

- 10 mm open end wrench
- 13 mm open end wrench
- 4 mm L-shape Allen Key
- 5 mm L-shape Allen Key

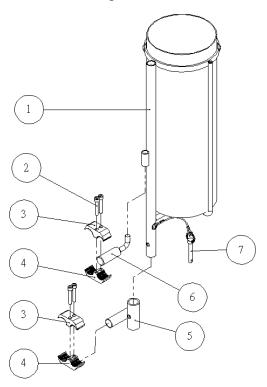
Removal and Replacement:

- 2.2.1 Use 4 mm L-shape Allen Key and 10mm open end wrench to loosen part 7 and part 10.
- 2.2.2 Remove part 8.
- 2.2.3 Use 5 mm L-shape Allen Key and 13mm open end wrench to loosen part 1 and part 4.
- 2.2.4 Remove part 5.
- 2.1.5 Re-assembly is done in reverse order.

Key Inspection:

2.3 Oxygen Tank Holder

Figure 2.3



- 1. Oxygen Tank Holder
- 2. M6 Hex Socket Head Cap Screw
- 3. Brake Clamp- Untapped
- 4. Brake Clamp-Tapped
- 5. Oxygen holder bracket
- 6. Hook for Oxygen Cylinder
- 7. Pin ⊕8 w/ Pull Ring

Tools:

- 5 mm L-shape Allen Key

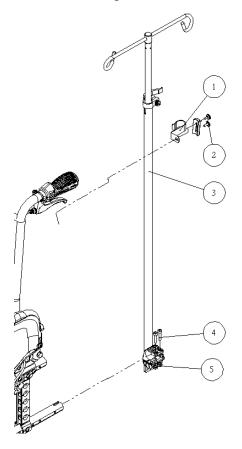
Removal and Replacement:

- 2.3.1 Pull part 7 out.
- 2.3.2 Replace part 1 by pulling out.
- 2.3.3 Use 5 mm L-shape Allen Key to loosen part 2.
- 2.3.4 Remove part 3 and part 4.
- 2.3.5 Re-assembly is done in reverse order.

Key Inspection:

2.4 IV Pole Assembly

Figure 2.4



- 1. Hook
- 2. Phillips Button Tapping Screw
- 3. IV Pole Assembly
- 4. M6 Hex Socket Head Cap Screw
- 5. M6 Nylon Lock

Tools:

- 5 mm L-shape Allen Key
- -Philips Screwdriver

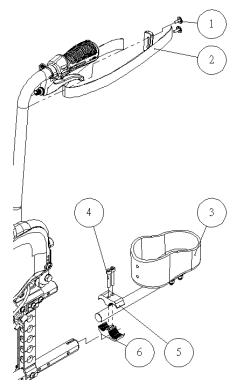
Removal and Replacement:

- 2.4.1 Use Philips screwdriver to loosen part 2.
- 2.4.2 Use 5 mm L-shape Allen Key to loosen part 4.
- 2.4.3 Remove part 3.
- 2.4.4 Re-assembly is done in reverse order.

Key Inspection:

2.5 Walking Stick Box Assembly

Figure 2.5



- 1. Phillips Button Tapping Screw
- 2. Walking Stick Velcro Fix Strap
- 3. Walking Stick Box Assembly
- 4. M6 Hex Socket Head Cap Screw
- 5. Brake Clamp-Untapped
- 6. Brake Clamp-Tapped

Tools:

- 5 mm L-shape Allen Key
- Philips screwdriver

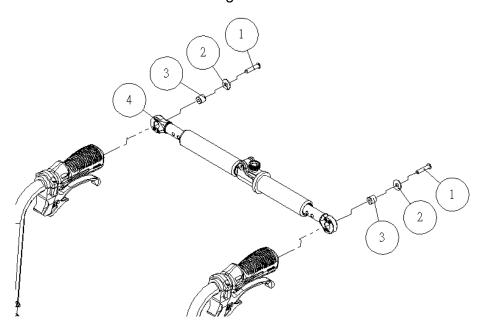
Removal and Replacement:

- 2.5.1 Use Philips screwdriver to loosen part 1.
- 2.5.2 Remove part 2.
- 2.5.3 Use 5 mm L-shape Allen Key to loosen part 4.
- 2.5.4 Remove part 3.
- 2.5.5 Re-assembly is done in reverse order.

Key Inspection:

2.6 Lateral Support Assembly

Figure 2.6



- 1. M6 Hex Socket Head Cap Screw
- 2. M6 Flat Washer
- 3. Nut
- 4. Lateral Support Assembly

Tools:

- 4 mm L-shape Allen Key

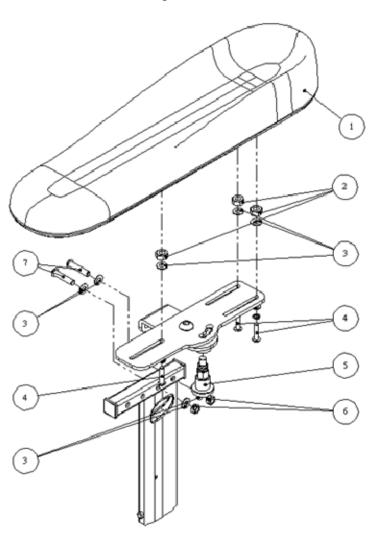
Removal and Replacement:

- 2.6.1 Use 4 mm L-shape Allen Key to loosen part 1.
- 2.6.2 Remove part 4.
- 2.6.3 Re-assembly is done in reverse order.

Key Inspection:

2.7 Hemi Armrest Assembly

Figure 2.7



- 1. Hemi Armrest
- 2. M8 Hex Nut
- 3. M6 Flat Washer
- 4. M5 Hex Socket Head Cap Screw
- 5. Pin
- 6. M6 Hex Nylon Dome Nut
- 7. M6 Hex Socket Head Cap Screw

Tools:

- 3 mm L-shape Allen Key
- 6 mm L-shape Allen Key
- 10 mm open end wrench
- 12 mm open end wrench

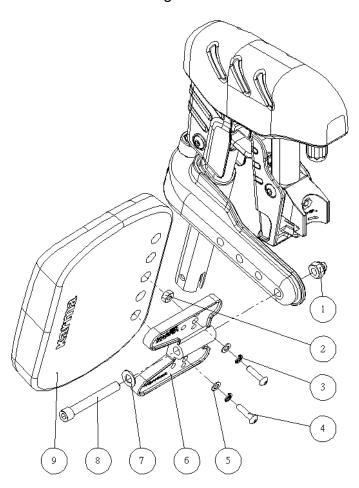
Removal and Replacement:

- 2.7.1 Use 3 mm L-shape Allen Key to loosen part 4.
- 2.7.2 Part 1 can be removed or adjusted.
- 2.7.3 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 7 and part 6.
- 2.7.4 The location of part 1 can be adjusted.
- 2.7.5 Use 12 mm open end wrench to loosen part 5.
- 2.7.6 Re-assembly is done in reverse order.

Key Inspection:

2.8 Elevating & Swing Away Footrest

Figure 2.8



- 1. M8 Hex Nylon Dome Nut
- 2. M6 Hex Nut
- 3. M5 Spring Washer
- 4. M5 Hex Socket Head Cap Screw
- 5. M5 Flat Washer
- 6. Mounting Plate
- 7. M8 Flat Washer
- 8. M8 Hex Socket Head Cap Screw
- 9. Calf Pad

Tools:

- 3 mm L-shape Allen Key
- 6 mm L-shape Allen Key

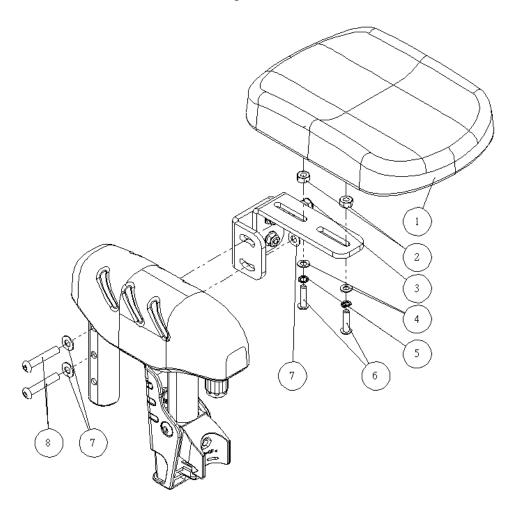
Removal and Replacement:

- 2.8.1 Use 3 mm L-shape Allen Key to loosen part 4.
- 2.8.2 Remove or adjust part 9.
- 2.8.3 Use 6 mm L-shape Allen Key to loosen part 8.
- 2.8.4 The location of part 6 can be adjusted.
- 2.8.5 Re-assembly is done in reverse order.

Key Inspection:

2.9 Stump Footrest

Figure 2.9



- 1. Calf Pad
- 2. M6 Hex Nut
- 3. M6 Hex Nylon Dome Nut
- 4. M5 Flat Washer
- 5. M5 Spring Washer
- 6. M5 Hex Socket Head Cap Screw
- 7. M6 Flat Washer
- 8. M6 Hex Socket Head Cap Screw

Tools:

- 3 mm L-shape Allen Key
- 4 mm L-shape Allen Key
- 10 mm open end wrench

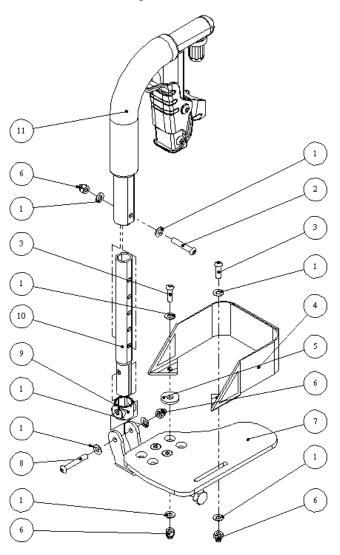
Removal and Replacement:

- 2.9.1 Use 3 mm L-shape Allen Key to loosen part 6.
- 2.9.2 Part 1 can be removed or adjusted.
- 2.9.3 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 8 and part 3.
- 2.9.4 The location of part 1 can be adjusted.
- 2.9.5 Re-assembly is done in reverse order.

Key Inspection:

2.10 Vertical Swing-Away Footrest

Figure 2.10



- 1. M6 Flat Washer
- 2. M6 Hex Socket Head Cap Screw
- 3. M6 Hex Socket Head Cap Screw
- 4. Heel Loop
- 5. M8 Flat Washer
- 6. M6 Hex Nylon Dome Nut
- 7. Angle and Depth Adjustable Footrest
- 8. M6 Hex Socket Head Cap Screw
- 9. Sleeve
- 10. Support Tube of Footplate
- 11. Vertical Swing-Away Footrest

Tools:

- 4 mm L-shape Allen Key
- 10 mm open end wrench

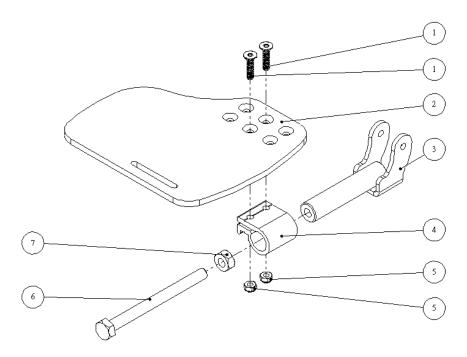
Removal and Replacement:

- 2.10.1 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 2 and part 6.
- 2.10.2 Part 11 can be removed or adjusted.
- 2.10.3 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 3 and part 6.
- 2.10.4 Remove part 4.
- 2.10.5 Use 4 mm L-shape Allen Key and 10 mm open end wrench to loosen part 8 and part 6.
- 2.10.6 Remove part 7.
- 2.10.7 Re-assembly is done in reverse order.

Key Inspection:

2.11 Angle and Depth Adjustable Footrest

Figure 2.11



- 1. M6 Flat Head Socket Cap Screw
- 2. Footplate
- 3. Angle and Depth Adjustable Footrest
- 4. Adjustable Footplate Base
- 5. M6 Hex Nylon Dome Nut
- 6. M10 Hex Socket Head Cap Screw
- 7. M10 Hex Nut

Tools:

- 4 mm L-shape Allen Key

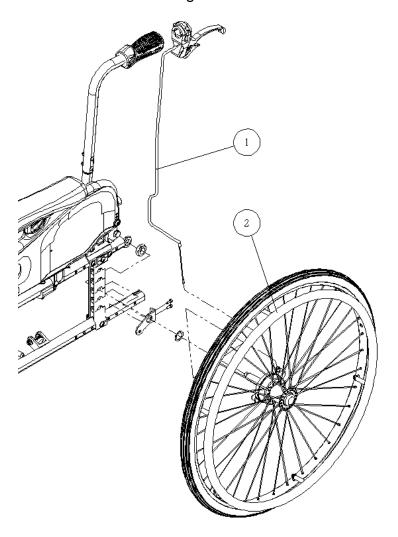
Removal and Replacement:

- 2.11.1 Use 4 mm L-shape Allen Key to loosen part 1.
- 2.11.2 Replace or adjust part 2.
- 2.11.3 Re-assembly is done in reverse order.

Key Inspection:

2.12 Drum Brake

Figure 2.12



- 1. Brake Cable
- 2. Rear Wheel

Tools:

- 10 mm open end wrench

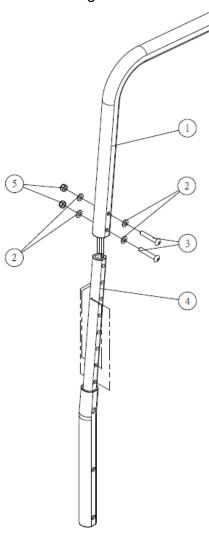
Removal and Replacement:

- 2.12.1 Use 10 mm open end wrench to loosen the nut below part 2
- 2.12.2 Remove part 1.
- 2.12.3 Re-assembly is done in reverse order.

Key Inspection:

2.13 Adjustable Backrest Tube

Figure 2.13



- 1. Adjustable Backrest Push Handle Tube
- 2. M5 Flat Washer
- 3. M5 Button Head Cap Screw
- 4. Adjustable Backrest Lower Tube
- 5. M5 Nylon Lock

Tools:

- 4 mm L-shape Allen Key
- 8 mm open end wrench

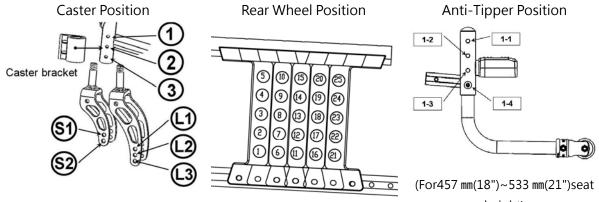
Removal and Replacement:

- 2.11.1 Use 4 mm L-shape Allen Key and 8 mm open end wrench to loosen part 3 and part 5.
- 2.11.2 Replace or adjust part 6.
- 2.11.3 Re-assembly is done in reverse order.

Key Inspection:

3. Instructions of Adjustment

3.1 Adjusting Seat Height for Wheelchair Equipped with 20, 22 or 24 Inch Rear Wheels



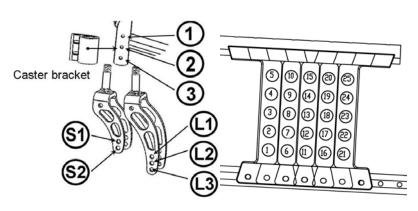
h	$\sim 10^{\circ}$	ght)
111	zιc	41 I L J

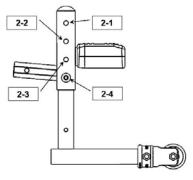
Seat	Caster Size F Caster Position		Rear Wheel	Caster	Rear Wheel	Seat	Anti-Tipper						
Height	Caster I	Position	Size	Bracket	Position	Angle	Position						
533 mm	8) II)			6	6.6°	ļ						
(21")		3	24"	23	11	6.1°	1-4						
(21)	V	9			16	5.7°							
	0"				7	6.3°							
	8" L3		24"	23	12	6°							
					17	5.8°]						
508 mm	0"				6	5.5°							
(20")	8" L3		22"	22" 23	11	5.3°	1-3						
(20)				16	5.1°								
	8" L 3				6	7.8°							
			20"	23	11	7.2°							
				16	6.9°								
	711	C"			8	5.5°							
	7" L2	6" (3)	24"	23	13	5.3°							
		3			18	5.1°							
402 mm	7"	C.II			7	5.8°							
483 mm	7" L2	6" (3)	22"	22"	22"	22"	22"	22"	22"	23	12	5.6°	1-2
(19")		3			17	5.3°							
	7" 6"			6	5.2°								
		_	20"	23	11	5.0°							
	(2	L 3			16	4.6°							

Caster Position

Rear Wheel Position (

Anti-Tipper Position





(For 304 mm(15.5") \sim 457 mm (18")seat height)

4.7°

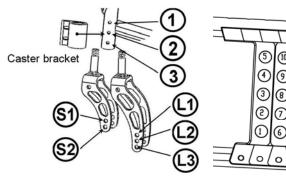
19

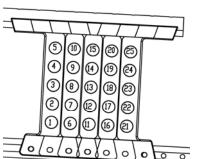
Seat Height		r Size Position	Rear Wheel Size	Caster Bracket	Rear Wheel Position	Seat Angle		Гipper ition		
	6" 5"		<u> </u>				8	5.5°		
	6" (1)	5"	<u>(2</u>		22"	23	13	5.3°		
457 mm					18	5.1°	1-1	2-4		
(18")	C"	F.11			7	5.1°	1-1	2-4		
	6" (1)	5" (2)	20"	23	12	5.0°				
					17	4.8°				
	5" ©2				9	5.4°				
			22"	23	14	5.0°				
432 mm					19	4.5°	2	-3		
(17")	5" §2		23	8	5.1°	۷.	-3			
		20"		13	4.7°					
	y	9			18	4.5°				
	_	111			10	4.8°				
		." ②	22"	12	15	4.6°				
406 mm	y	9			20	4.3°	2	-2		
(16")		5" 20" ① ②			9	5.1°	۷.			
				12	14	4.9°				
	(52)									

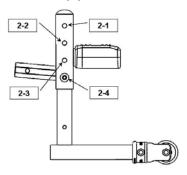
Caster Position

Rear Wheel Position

Anti-Tipper Position







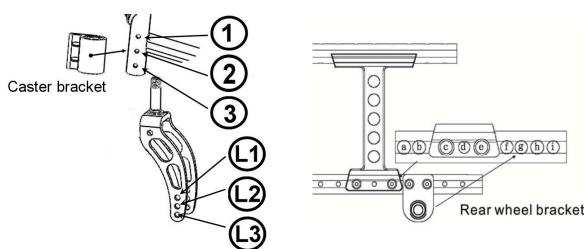
(For 394 mm(15.5")~457 mm(18")

seat height)

						<i>5</i>
Seat	Caster Size	Rear Wheel	Caster	Rear Wheel	Seat Angle	Anti-Tipper
Height	Caster Position	Size	Bracket	Position		Position
394 mm (15.5")	FII			10	4.0°	
	5"	22"	12	15	3.8°	
				20	3.7°	2-1
		5" 20"		9	4.0°	2-1
			12	14	3.7°	
	5)			19	3.4°	

3.2 Seat Height Adjustment for Wheelchair Equipped with 14 inch Rear Wheels

Caster Position Rear Wheel Position

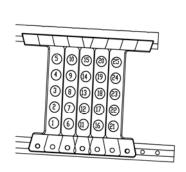


Seat		er Size	Rear Wheel	Caster	Rear Wheel	Seat
Height	Caster I	Position	Size	Bracket	Posotion	Angle
508 mm		7"	14"	23	fg	8.5°
(20")	(L2)	<u>(L3)</u>	14	20	T) ®	0.5
483 mm		6"	14"	23	fg	6.0°
(19")	(L2)	<u>(13)</u>	1-7	20	•	0.0
457 mm	6"	5"	14"	99		3.5°
(18")	<u>L1</u>	<u>L2</u>	14	23	(f)(g)	ა.ა

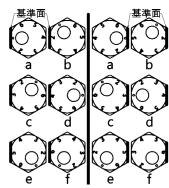
3.3 Caster Adjustment for wheelchair Equipped with 20, 22 or 24 Inch Rear Wheels

Rear Wheel Position

Eccentric Hex Spacer Direction of Eccentric Hex Spacer





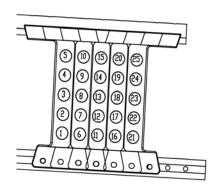


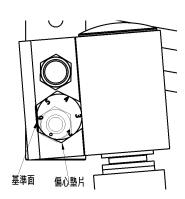
					E		 ı
Seat Height	Caster Size		Rear Wheel Size	Rear Wheel Bracket	Directi Eccentr Space	ic Hex cer	
					Right	Left	
522 mm				6	b	b	
533 mm (21")	8	"	24"	11	b	b	
(_ · /				16	b	b	
508 mm (20")				7	b	b	
	8	11	24"	12	b	b	
			17	b	b		
	8"	22"	6	b	b		
			11	b	b		
(20)			16	b	b		
	8"		20"	6	b	b	
				11	b	b	
				16	b	b	
				8	b	b	
	7"	6"	24"	13	b	b	
				18	b	b	
1.5.5				7	b	b	
483 mm	7"	6"	22"	12	b	b	
(19")			_	17	b	b	
				6	b	b	
	7"	6"	20"	11	b	b	
			_	16	b	b	

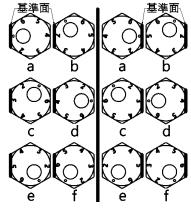
Rear Wheel Position

Eccentric Hex Spacer

Direction of Eccentric Hex Spacer





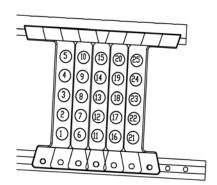


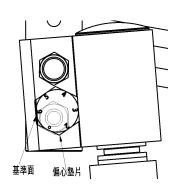
Seat Height	Caster Size		Rear Wheel Size	Rear Wheel Bracket	Eccent	ion of ric Hex acer	
				8	b	b	
	6"	5"	22"	13	b	b	
457 mm				18	b	b	
(18")				7	b	b	
	6"	5"	20"	12	b	b	
				17	b	b	
	5"		22"	9	b	b	
				14	b	b	
432 mm				19	b	b	
(17")		5"		8	b	b	
	5			13	b	b	
				18	b	b	
				10	b	b	
	5)"	22"	15	b	b	
406 mm				20	b	b	
(16")				9	b	b	
	5	3"	20"	14	b	b	
				19	b	b	

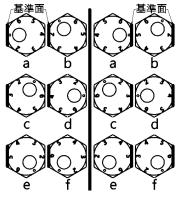
Rear Wheel Position

Eccentric Hex Spacer

Direction of Eccentric Hex Spacer







座高	Caster Size	Rear Wheel Size	Rear Wheel Bracket	Eccent	Direction of Eccentric Hex Spacer		
			10	b	b		
	5"	22"	15	b	b		
394 mm			20	b	b		
(15.5")	5"	20"	9	b	р		
			14	b	b		
			19	b	b		

3.4 Caster Adjustment for Wheelchair Equipped with 14 inch Rear Wheels

					e		
Seat			Rear Wheel	Rear Wheel	Direct	ion of	
	Caste	r Size			Eccent	ric Hex	
Height			Size	Size Bracket		icer	
508 mm (20")	8"		14"	fg	а	а	
483 mm (19")	7"	6"	14"	fg	b	b	
457 mm (18")	6"	5"	14"	fg	b	b	

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