

## *Invacare Celt Plus Chair*

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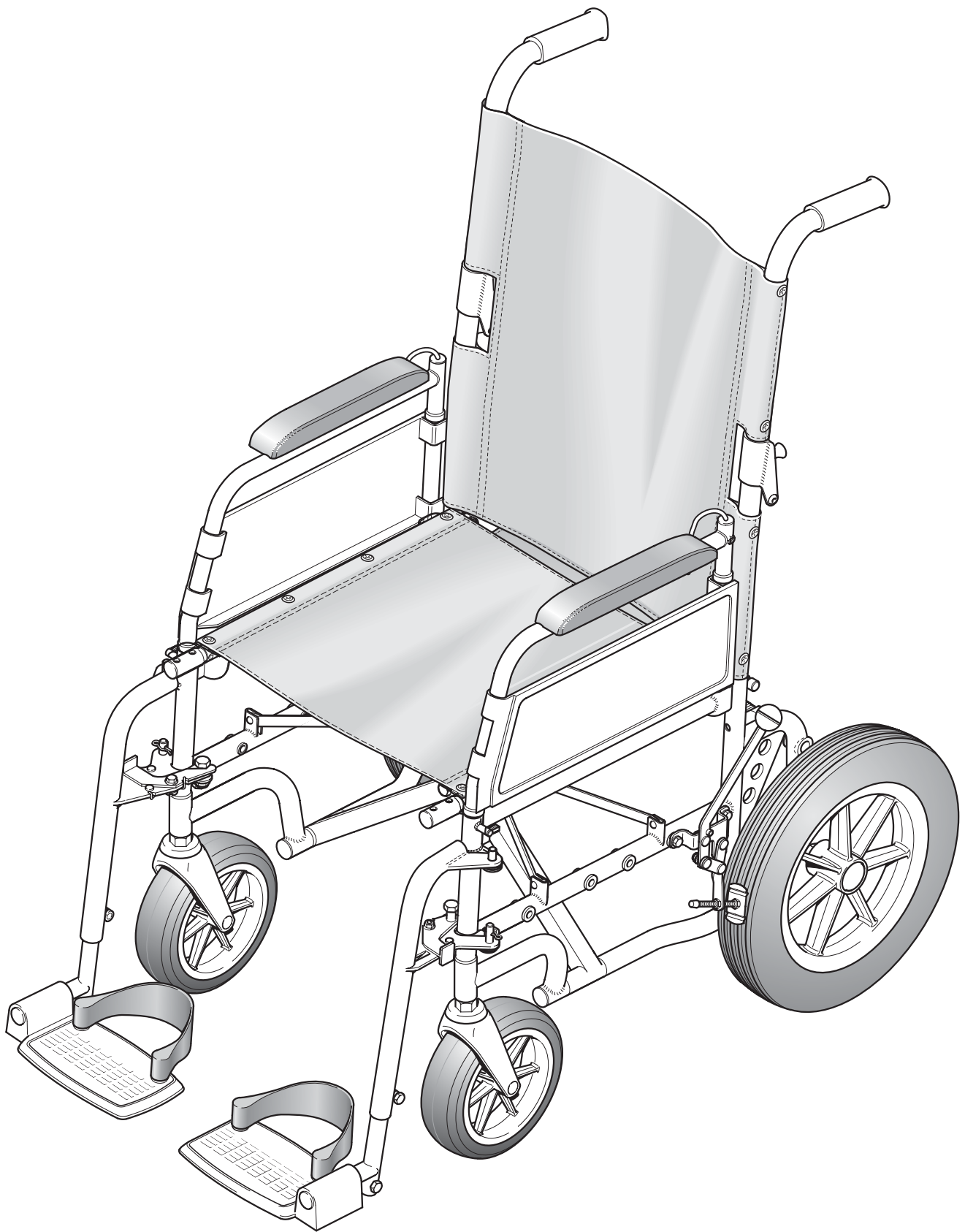
### *Maintenance and Spares Parts Manual*



<b>Contents</b>	<b>Page</b>
<b>Chapter 1 Introduction</b>	
Introduction .....	1.3
Policy .....	1.5
Technical Details .....	1.5
Types .....	1.5
<b>Chapter 2 Maintenance</b>	
Scope .....	2.3
Inspection .....	2.5
Tools .....	2.5
Removing/Replacing Backrest Canvas .....	2.7
Removing/Replacing An Armrest Assembly .....	2.11
Removing/Replacing Main Wheel Assemblies .....	2.15
Removing/Replacing A Brake Assembly .....	2.21
Removing/Replacing A Castor Wheel Assembly .....	2.23
Removing/Replacing A Swing/Detachable Footrest Assembly .....	2.25
Removing/Replacing Seat Canvas .....	2.27
<b>Chapter 3 Illustrated Parts Catalogue</b>	
General .....	3.3
Ordering Information .....	3.3
CELT Wheelchair Assembly .....	3.5
Fixed and Folding Backrest Assemblies .....	3.7
Reclining Backrest Assembly .....	3.11
Full Armrest Assemblies with Standard and Contoured Armpad .....	3.15
Adjustable Armrest and Sports Armrest Assemblies .....	3.17
Main Wheel Assemblies .....	3.19
Brake Assembly .....	3.23
Castor Wheel Assemblies .....	3.25
Swing/Detachable Footrest Assemblies .....	3.27
Seat Assembly .....	3.33
Optional Extras - Set Back Adaptor .....	3.37
Optional Extras - Seat to Ground Seat Canvas .....	3.39
Optional Extras - Headrest .....	3.41

## **Chapter 1**

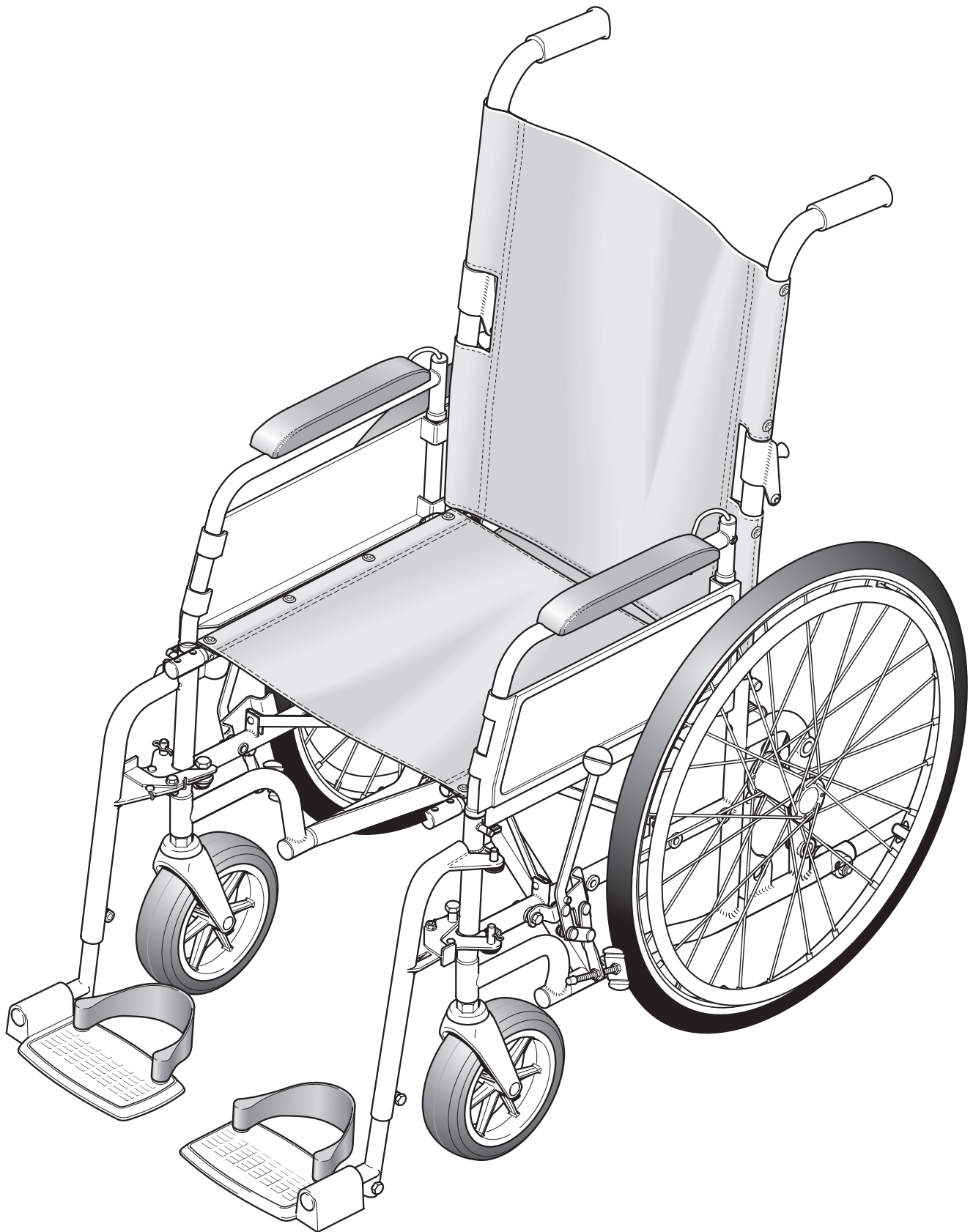
### **Introduction**



**Figure 1.0 CELT Wheelchair with Transit Wheels**

## **Introduction**

- 1** This manual provides basic details to enable the CELT Wheelchair to be maintained. It is not intended to be a comprehensive maintenance guide/policy, but is intended for use by competent personnel to enable the chair to be adequately maintained.
- 2** The manual is split into the following chapters:  
  
Chapter 2 Detailing assemblies that are maintainable and the relevant procedures.  
  
Chapter 3 Detailing parts that are available to enable the maintenance in Chapter 2 to be complied with.
- 3** For Customer Service enquires, repairs, servicing and spares, contact INVACARE Ltd. at the address below and quote all the details as indicated in paragraphs 6 and 7.
- 4**  
INVACARE Ltd.  
  
South Road  
  
Bridgend Industrial Estate  
  
Bridgend  
  
Mid-Glamorgan  
  
CF31 3PY  
  
Tel No: 01656 647327  
  
Fax No: 01656 649016
- 5** Quote the following details at all times:
  - 5.1** Part Number
  - 5.2** Description
  - 5.3** Quantity required
- 6** For certain orders the following should also be quoted:
  - 6.1** Serial or batch number
  - 6.2** End user




**Figure 1.0 CELT Wheelchair with Self Propelling Wheels**

## Policy

- 7 INVACARE Ltd. repair policy is as follows:

*Repairs to ANY component other than those detailed in Chapter 2 are not covered. Repairs to ANY metal work is not generally permitted without express permission of INVACARE Ltd. ALL fasteners i.e. bolts, Nyloc nuts, and any fastener showing damage MUST be renewed.*

Failure to comply with the above absolves INVACARE Ltd. of liability.

 **Note:** Certain components will require removal to carry out maintenance. With the exception of fasteners, these components should be refitted.

## Technical Details

- 9 The following data applies to the CELT.

- 9.1 Available seat widths:

13" to 19" increments.

- 9.2 Chair depth available (adjusted using a spigot tube):

15", 16" and 17" (other sizes on application).

- 9.3 Seat to ground height:

19" (standard), 17" and 21".

- 9.4 Wheel types available:

315mm diameter (Transit) and 20", 22" and 24" Self Propelling (Standard and QR).

- 9.5 Maximum user weight:

20 stone (127 kg), transit and pneumatic self propelling wheel.  
18 stone (114.5 kg), solid self propelling wheel.

- 9.6 Backrest type:

Fixed 3°, 10°, 15° and 20°. Other options are folding and reclining.

- 9.7 Chair finish:

Polyester powdered coat (Black).

- 9.8 Transit weight of chair:

Approximately 17kgs (dependant on configuration and seat size).

## Types

### Options

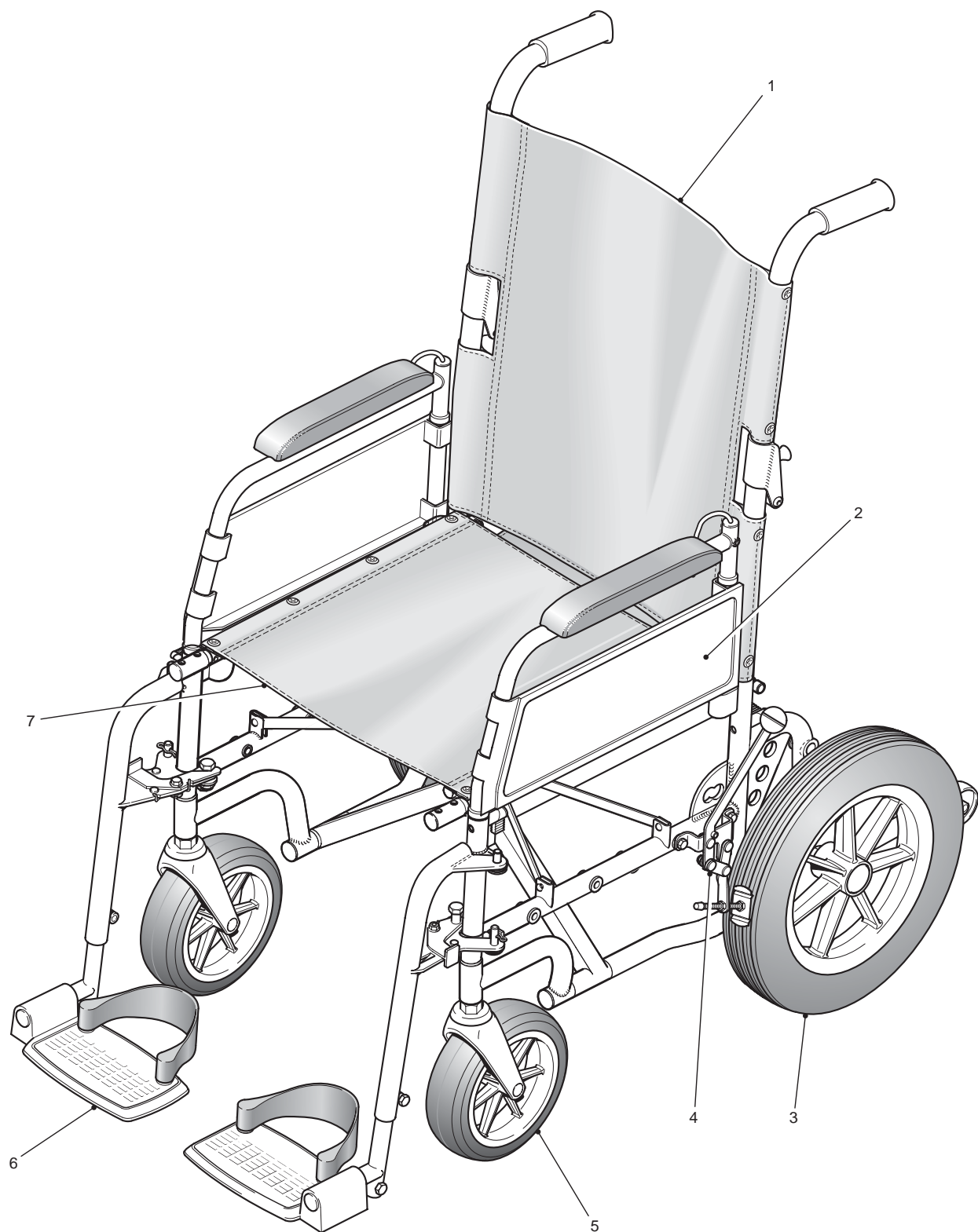
- 10 The chair is available in various user defined optional types. For further details refer to INVACARE Ltd. for details and acceptable combinations.

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**Chapter 2**

**Maintenance**



- 1 Backrest
- 2 Armrest assembly
- 3 Rear wheels
- 4 Brake assembly

- 5 Castor wheel assembly
- 6 Swing/detachable footrest
- 7 Seat

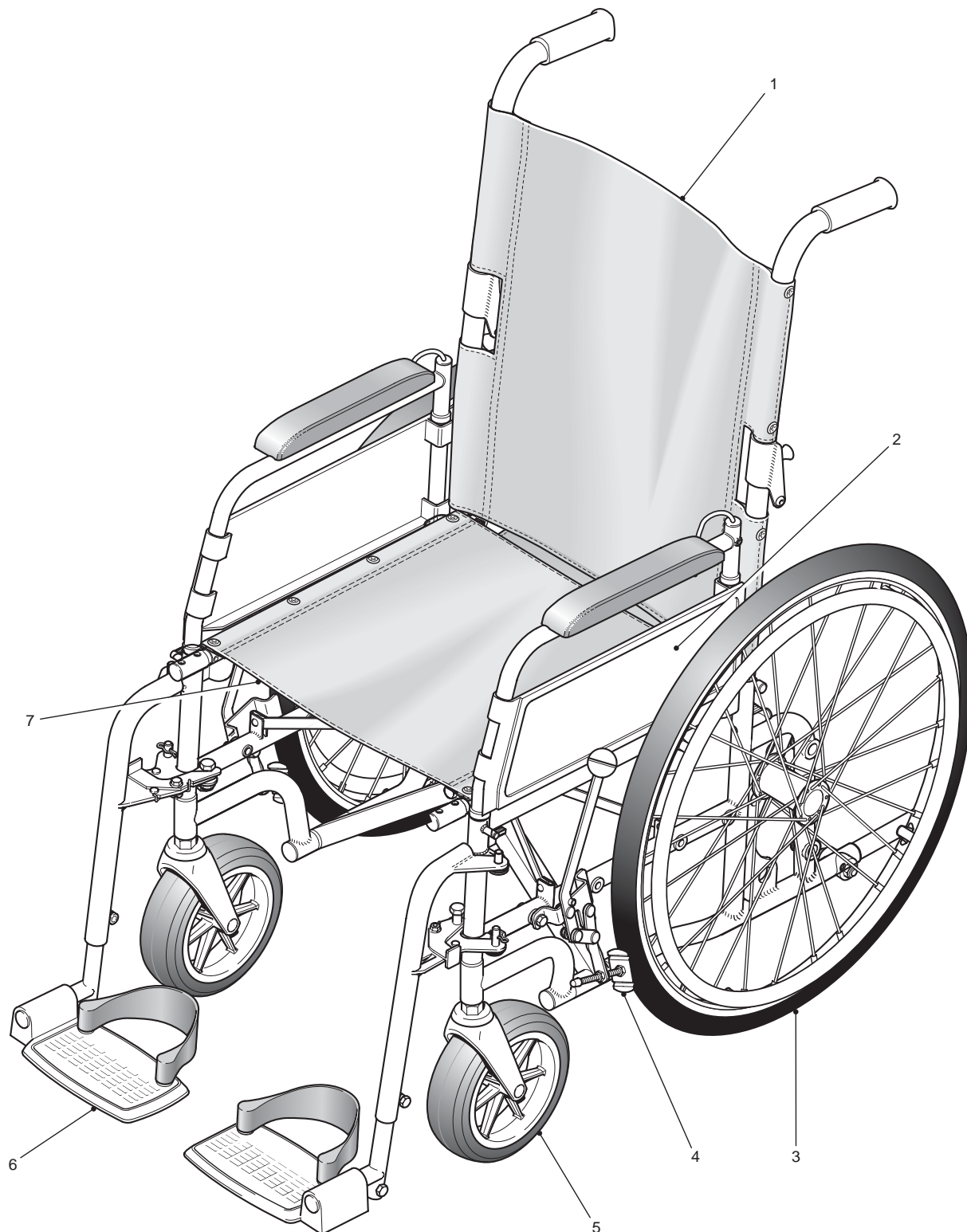
**Figure 2.0.1 General Arrangement of Chair**

## Scope

- 1 This chapter details the removal and/or replacement procedures required for the following assemblies and/or items. It is not intended to be a strict policy of maintenance but should be used as a guide only.
- 2 The assemblies covered (refer to Fig 2.0) are as follows:

Section	Assembly	Page
2.1	Backrest Canvas/Pushhandles	2.7
2.2	Armrest Assemblies	2.11
2.3	Rear Wheel Assemblies	2.15
2.4	Brake Assembly	2.21
2.5	Castor Wheel Assemblies	2.23
2.6	Swing/Detachable Footrest Assemblies	2.25
2.7	Seat Canvas and Chassis	2.27

- 3 For the tools required refer to the list of tools detailed in paragraph 12. Any special tooling and/or torque requirements will be referred to within the relevant text.
- 4 General engineering practices and safe working practices must be adhered to at all times.
- 5 For further information on the assemblies contained within this chapter, contact Customer Services, INVACARE Ltd., (refer to address in chapter 1) quoting the following details:
  - 5.1 Part Number
  - 5.2 Description
  - 5.3 Quantity required
- 6 For certain orders the following should also be quoted:
  - 6.1 Serial or batch number
  - 6.2 End user
- 7 For any ordering or spares procurement, contact INVACARE Ltd., (refer to address in Chapter1) quoting the details in paragraphs 5 and 6.




- 1 Backrest
- 2 Armrest assembly
- 3 Rear wheels
- 4 Brake assembly


- 5 Castor wheel assembly
- 6 Swing/detachable footrest
- 7 Seat

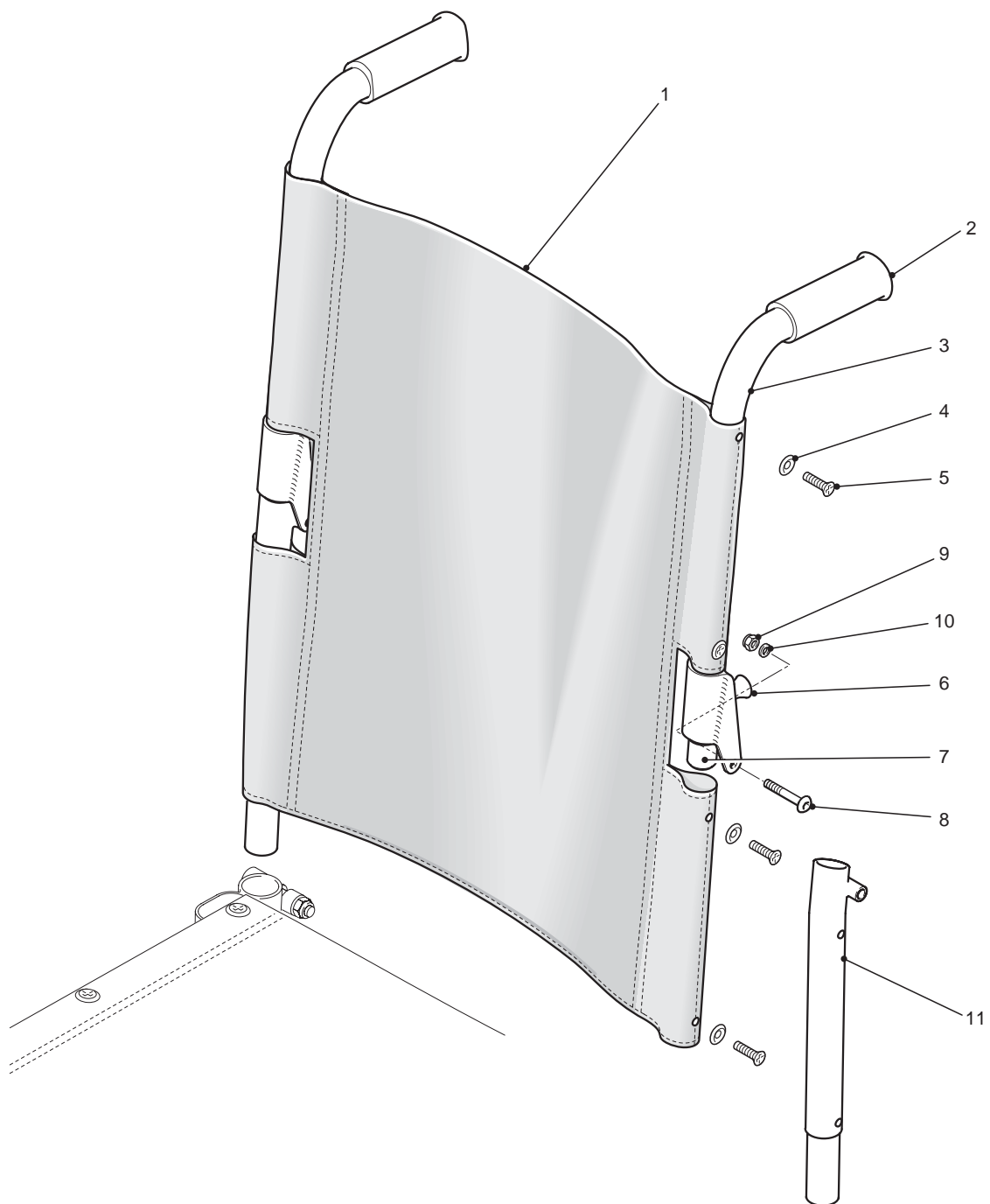
**Figure 2.0.2 General Arrangement of Chair**

## Inspection

- 8**     **In general**, a weekly visual check will meet all the inspection requirements.
- 9**     Ensure that the following are checked:
  - 9.1**     Fabric is undamaged and has no signs of sagging.
  - 9.2**     The footrest is correctly fitted and latched.
  - 9.3**     Both armrests are securely fitted in place.
  - 9.4**     Brake mechanism operates freely and, when locked, the chair does not move.
  - 9.5**     Footplates and heel slings are undamaged and are correctly fitted.
  - 9.6**     Tyres are in good order and the wheels are not damaged.
  - 9.7**     If stabilisers are fitted, they are firmly locked in place.
  - 9.8**     Check that quick release spindle releases and locks correctly.
- 10**    Check the finish of the chair for any damage.
  -  **Note:**     Some finishes are unique to the chair. Check with INVACARE Ltd. for details.
- 11**    Check that all bungs/plugs and handgrips are fitted and undamaged.

## Tools

- 12**    The following list details the basic tools required to carry out the maintenance procedures detailed in the following sub-chapters.
  - 12.1**    Pliers
  - 12.2**    Drills (Metric and Imperial)
  - 12.3**    Spanners (Metric and Imperial)
  - 12.4**    Pozidriv screwdriver
  - 12.5**    Thin flat bladed screwdriver
  - 12.6**    Adjustable spanner
  - 12.7**    Torque wrench (20 to 40 lbf.ft rating)
  - 12.8**    Set of Allen keys (Metric and Imperial)
  - 12.9**    Protected jaw grips
  - 12.10**   Nylon mallet
  - 12.11**   Pop rivet gun
-  **Note:**     The above list is not exhaustive.



- |   |                 |    |                            |
|---|-----------------|----|----------------------------|
| 1 | Backrest canvas | 6  | Plunger knob               |
| 2 | Handgrips       | 7  | Plunger                    |
| 3 | Push handle L/H | 8  | Hex head bolt              |
| 4 | Cup washer      | 9  | Nyloc nut                  |
| 5 | Pozi head screw | 10 | Washer                     |
|   |                 | 11 | Lower half back frame tube |

**Figure 2.1.1 Folding Backrest Assembly**

## 2.1 Removing/Replacing Backrest Canvas/Pushhandles

### General

- 1 Check the (Fig 2.1.1) Backrest Canvas (1) and Push Handle (3) for any defects, (refer to paragraphs 4 and 5). If any defects are observed then refer to paragraphs 6 to 10 for maintenance.
- 2 Ensure that the push handle locks securely and that the locking mechanism functions correctly.

### Tools

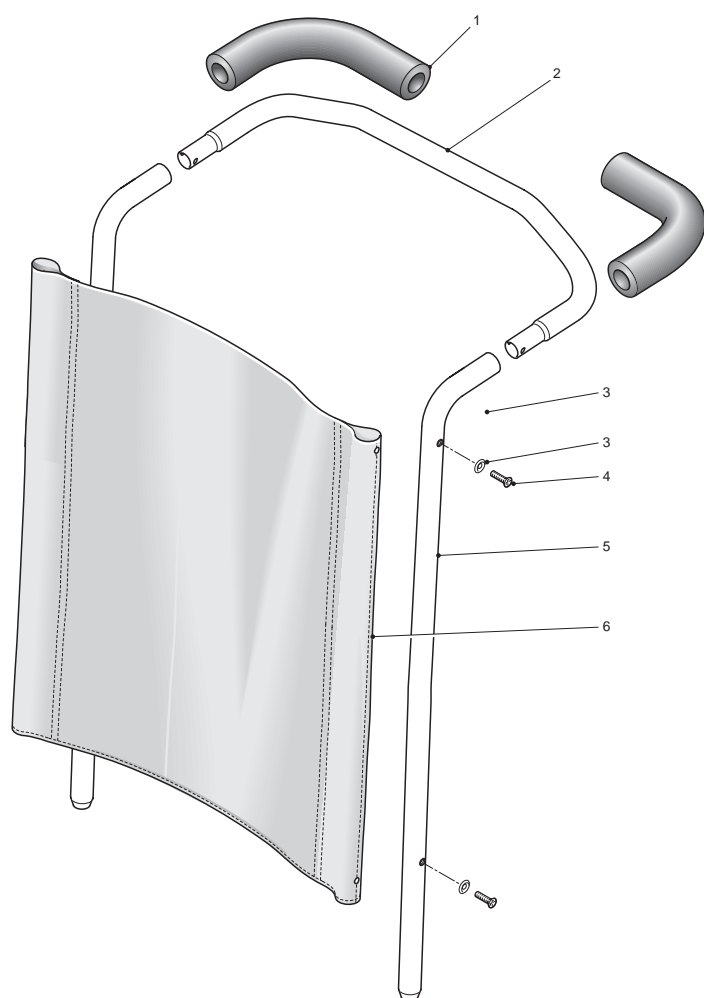
- 3 Refer to the tool list at the beginning of this Chapter.

### Inspection

- 4 Inspect on a weekly basis for the following:
  - 4.1 No signs of sagging, stretching or excessive wear in the Canvas (1).
  - 4.2 No evidence of fraying, especially around the fastener points.
  - 4.3 Pozidriv Head Screws (5) not missing and are tight.
  - 4.4 Cup Washers (4) not missing and are tight.
- 5 Inspect the locking mechanism for the following:
  - 5.1 Levers are not deformed or damaged.
  - 5.2 Locks safely when the Push Handle (3) is in the upright position.
  - 5.3 Not excessively stiff to operate (action should be smooth and positive).

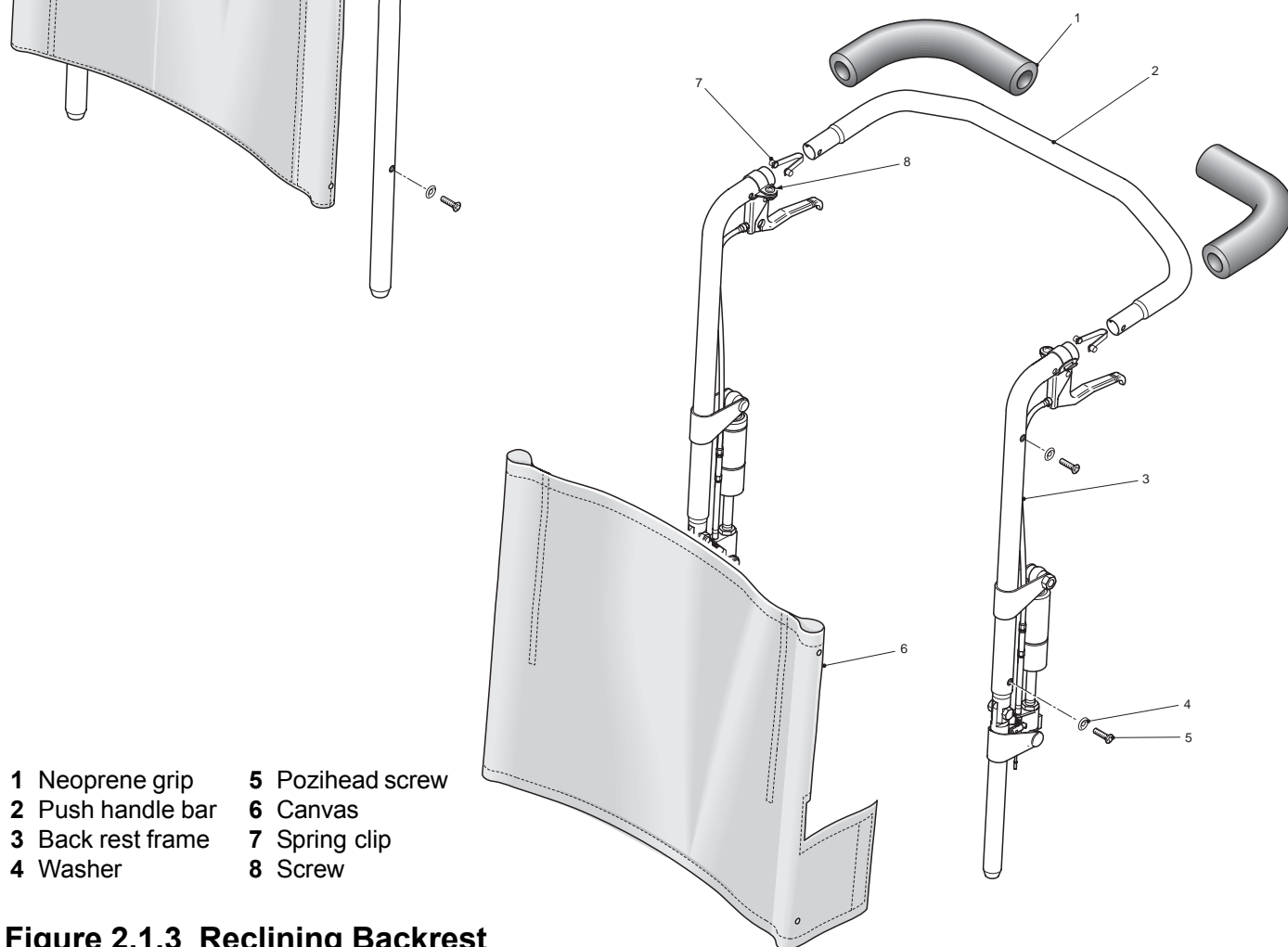
### Removal of the backrest canvas/pushhandles

- 6 To remove the Foldable Backrest (Fig 2.1.1) Canvas (1) proceed as follows:
  - 6.1 Release the Plunger Knob (6) and fold the Push Handle (3) down.
  - 6.2 Unscrew and remove the four Pozidriv Head Screws (5) and Cup Washers (4).
  - 6.3 Unscrew and remove the two Bolts (8), Nyloc Nuts (9) and Plain Washers (10).
  - 6.4 Unscrew and remove the two Plunger Knobs (6).
  - 6.5 Slide the Backrest Canvas (1) off the Push Handle (3).
  - 6.6 Slide the Backrest Canvas (1) off the lower half of the Back Frame (11).
- 7 To remove the canvas from the fixed backrest (Fig 2.1.2) proceed as follows:
  - 7.1 Release the plunger operated lock in both rear vertical frame tubes and pull the complete backrest out of the chassis.
  - 7.2 Remove the pozihead screws (4) and washers (3) from both sides of the Backrest Tube (5) and slide the canvas (6) off the backrest frame.



- |   |                 |   |                     |
|---|-----------------|---|---------------------|
| 1 | Neoprene grip   | 4 | Pozihead screw      |
| 2 | Push handle bar | 5 | Fixed backrest tube |
| 3 | Washer          | 6 | Canvas              |


**Figure 2.1.2 Fixed Backrest**



- |   |                 |   |                |
|---|-----------------|---|----------------|
| 1 | Neoprene grip   | 5 | Pozihead screw |
| 2 | Push handle bar | 6 | Canvas         |
| 3 | Back rest frame | 7 | Spring clip    |
| 4 | Washer          | 8 | Screw          |

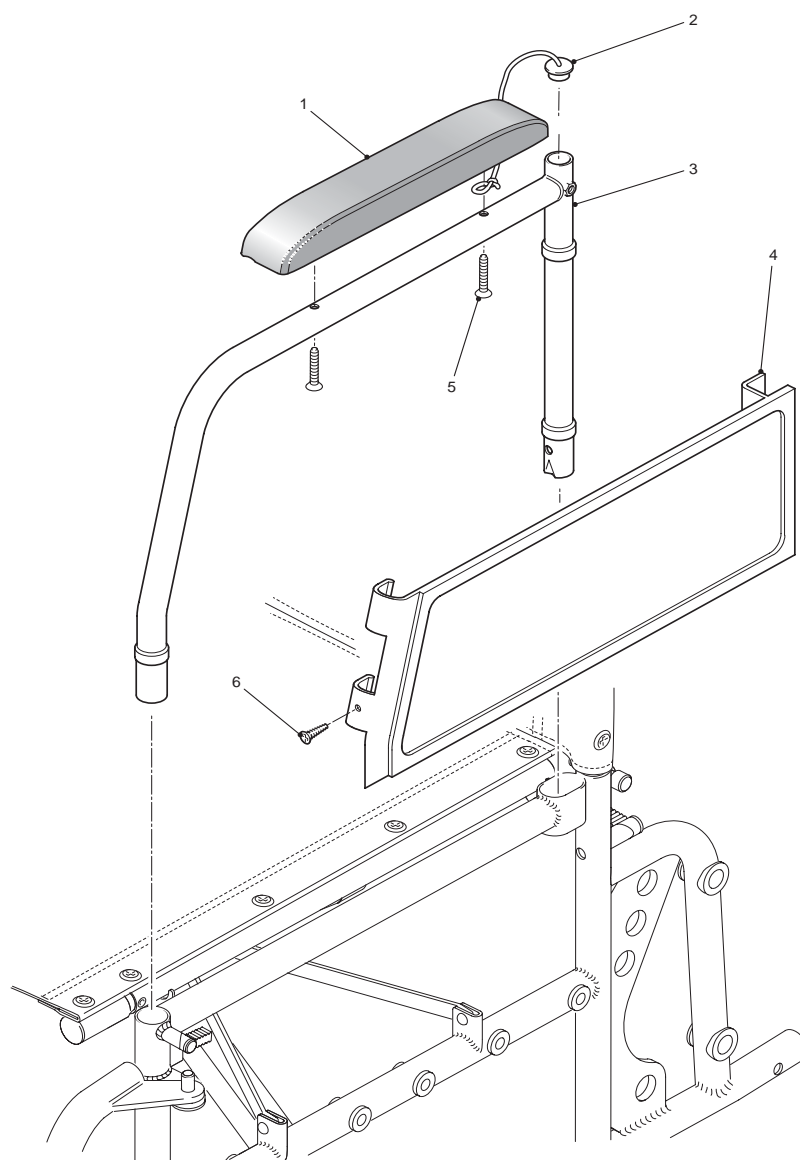
**Figure 2.1.3 Reclining Backrest**



- 8 To remove the canvas from the reclining backrest (Fig 2.1.3) proceed as follows:
- 8.1 Remove the Push Handle Bar (2) from the Backrest Frame (3) by depressing the Spring Clips (7).
-  **Note:** It may be necessary to use pliers or a similar tool to extract the Spring Clips.
- 8.2 Remove the Pozi head screws (5) and washers (4) from the Backrest Frame tube (3).
  - 8.3 Release the Canvas (6) by pulling apart the Velcro seal from the canvas.
  - 8.4 Remove the canvas by sliding it off the Backrest Frame.

#### **Replacing the backrest canvas**

- 9 To replace the backrest canvas is the reverse of the removal, however ensure the following:
- 9.1 New Nyloc nuts are fitted.
  - 9.2 The securing points are undamaged.
  - 9.3 New cup washers are fitted as required.
  - 9.4 That the backrest canvas is stretched evenly and is taut.
  - 9.5 New Spring Clips are fitted in the Push Handle bar as required.



- 1 Armpad
- 2 Sealing plug
- 3 Armrest frame
- 4 Armrest panel
- 5 Countersunk screw
- 6 Self tapping screw

**Figure 2.2.1 Armrest Assembly**

## 2.2 Removing/Replacing An Armrest Assembly

### General

 **Note:** The armrest assembly consists of a Armpad (1), Armrest Panel (4) and an Armrest Frame (3).

- 1 Check the armrest assembly for any defects (refer to paragraph 4). If any defects are observed then refer to paragraphs 5 to 10 for maintenance details and to Chapter 3 for parts information.
- 2 The armrest can be renewed as either:
  - 2.1 A complete assembly or
  - 2.2 Armrest Panel and Armpad can be renewed as separate items.


### Tools

- 3 Refer to the tool list at the beginning of this Chapter.

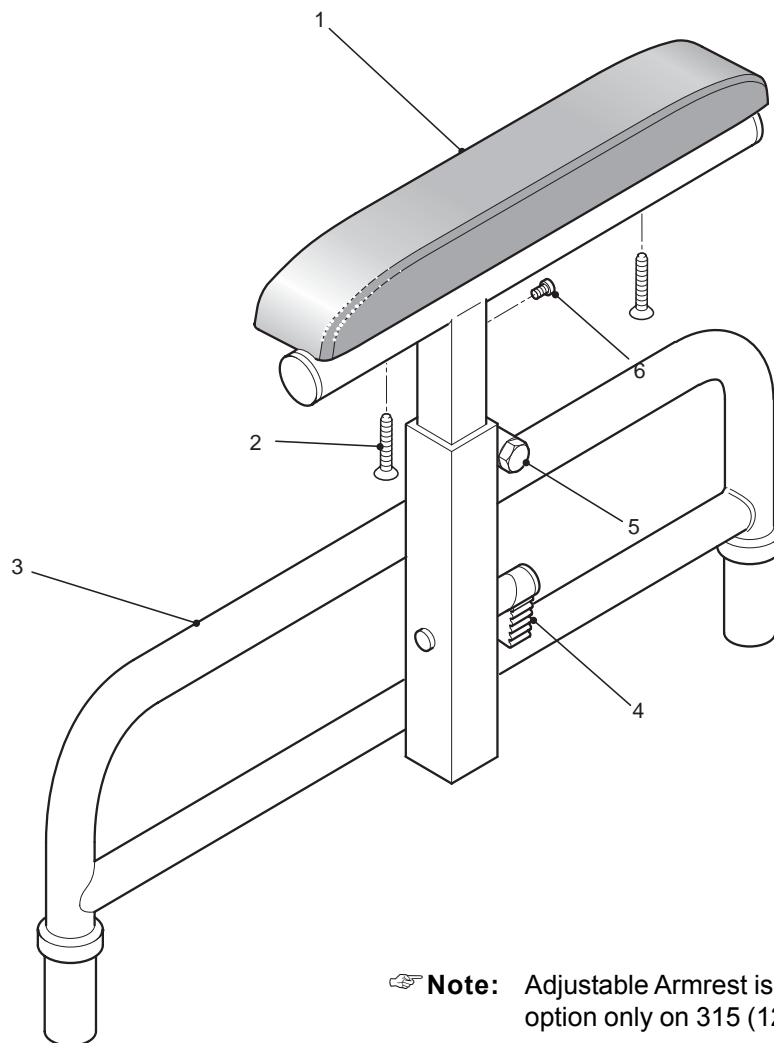
### Inspection


- 4 Inspect on a weekly basis for the following:
  - 4.1 Armrest Frame, Armrest Panel and finish are undamaged.
  - 4.2 Armrest Pad is secure, not excessively worn and free of damage. Replace if necessary.
  - 4.3 Replace missing fixing screws and tighten as required.
  - 4.4 Armrest lock in side frame front tube engages and releases effectively.
  - 4.5 **Standard Armrest** (Fig 2.2.1) - Check that the armrest panel is firmly in place and not bent or damaged.
  - 4.6 **Adjustable Armrest** (Fig 2.2.2) - Check smooth operation of height adjustment including Armrest Cam lock.

### Removing An Armrest Assembly

 **Note:** For ease of maintenance the armrest assembly can be replaced as a complete assembly.

- 5 To remove the Armrest assembly proceed as follows:
  - 5.1 Release the armrest plunger lock in the side frame front tube and pull the armrest assembly out of the chassis.
  - 5.2 **Adjustable Armrest** (Fig 2.2.2) - Slacken the Clamp Bolt (5) and nut on the centre guide tube, release the Armrest Cam lock (4) and pull the armrest out of the Armrest Frame.
- 6 To remove individual components of the armrest assembly proceed as follows:
  - 6.1 Support the Armrest Frame (3) using a soft jawed vice and carry out the following procedures:
- 7 Removing the Armrest Pad (Fig 2.2.1) (1).
  - 7.1 Unscrew and remove the two Screws (5). (Item 2 on adjustable armrest).
  - 7.2 Remove the Armpad from the Armrest Frame.
- 8 Removing an Armrest Panel.



 **Note:** Adjustable Armrest is available as an option only on 315 (12 1/2") wheels.

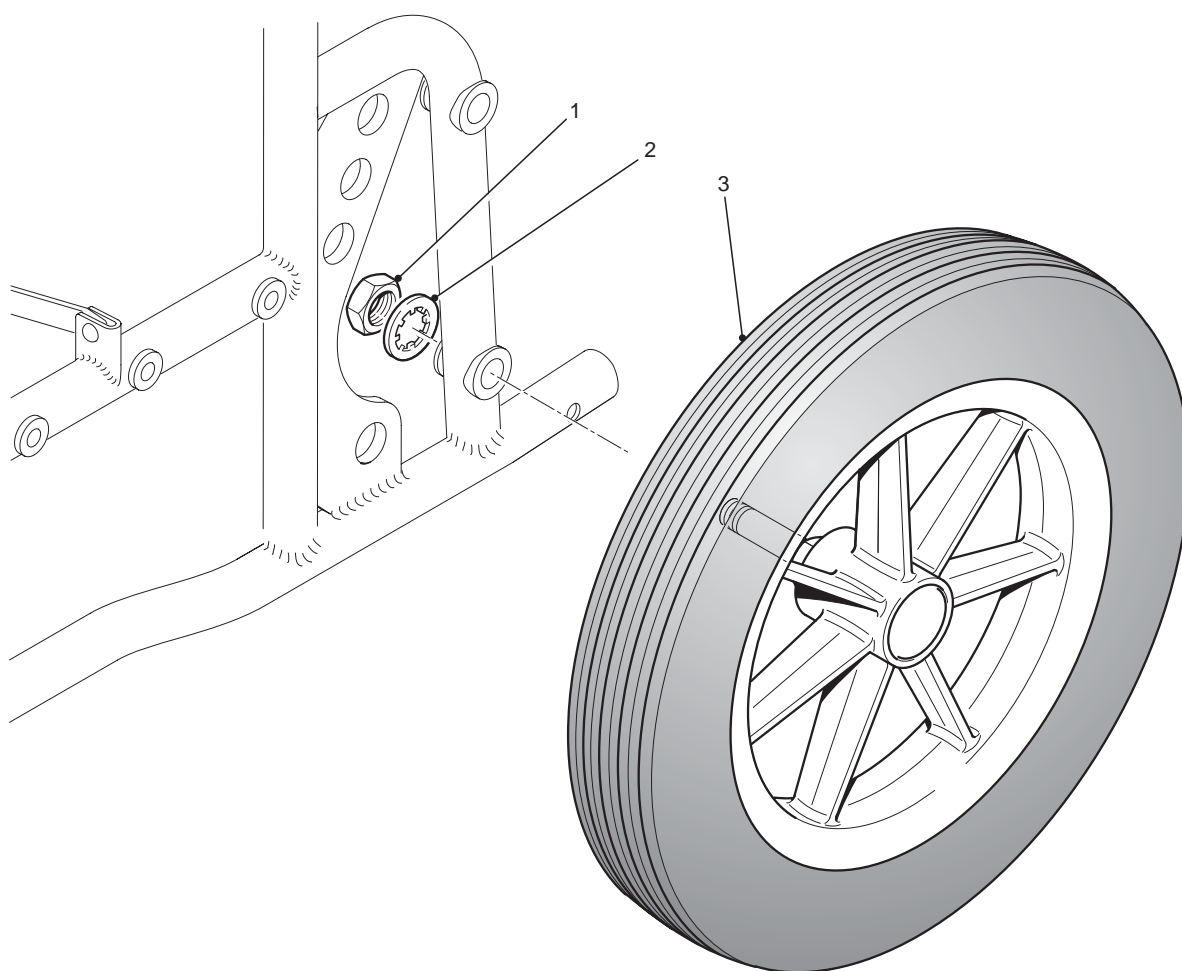
- 1 Armpad
- 2 Countersunk screws
- 3 Armrest frame
- 4 Armrest cam lock
- 5 Bolt
- 6 Self tapping screw

**Figure 2.2.2 Adjustable Armrest Assembly**

- 8.1     Unscrew self tapping screw (6) from front of armrest.
- 8.2     Unclip the Armrest Panel (5) from the Armrest Frame (3) by pushing it horizontally in the direction of the front of the chair and remove it.

### **Replacing Armrest Components**

- 9        To replace the Armrest assembly or any of the components of the Armrest assembly is the reverse of the removal; however ensure the following:
  - 9.1       The Armrest Panel is flush fitting to the Frame.
  - 9.2       Sealing Plugs are undamaged when replaced.




- 1 Wheel locknut
- 2 Washer

- 3 Rear wheel

**Figure 2.3.1 Rear Wheel Assembly**

## 2.3.1 Removing/Replacing Rear Transit Wheel Assemblies

### General

 **Note:** This chair can be fitted with the following wheel types:

- (a) Transit style, 315 mm solid or pneumatic.
- (b) A 20 in, 22 in or 24 in diameter wheel with hand rim and Quick Release (Q.R.) hub, solid or pneumatic tyres.

- 1 Check the wheel assembly for any defects (refer to paragraph 5). If any defects are observed then refer to paragraphs 6 to 11 for maintenance details and to Chapter 3 for parts.
- 2 The main wheel assembly can be renewed as a complete assembly.

### Tools

- 3 Refer to the tool list at the beginning of this Chapter.
  - 3.1 A torque wrench of 25 lbf.ft rating is required.

### Inspection

- 4 Inspect on a weekly basis for the following:
  - 4.1 Damage to either wheel or tyre.
  - 4.2 When the wheel assembly is allowed to free wheel that no binding, grating noise or unconcentric rotation are present.
  - 4.3 Wheel rim and spokes are undamaged.
  - 4.4 If fitted, the hand rim is undamaged.
  - 4.5 Excessive bearing rock.

### Removing A Transit Wheel Assembly

- 5 To remove a transit wheel (3) (refer to Fig 2.3.1) proceed as follows:
  - 5.1 Raise and support the chair so the damaged wheel is free of the ground.
  - 5.2 Using a suitable size spanner grip the nut located behind the wheel hub.
  - 5.3 Using the torque wrench, unscrew and remove the wheel locknut (1) and washer (2).
  - 5.4 Slide the wheel (3) free from its location on the frame.

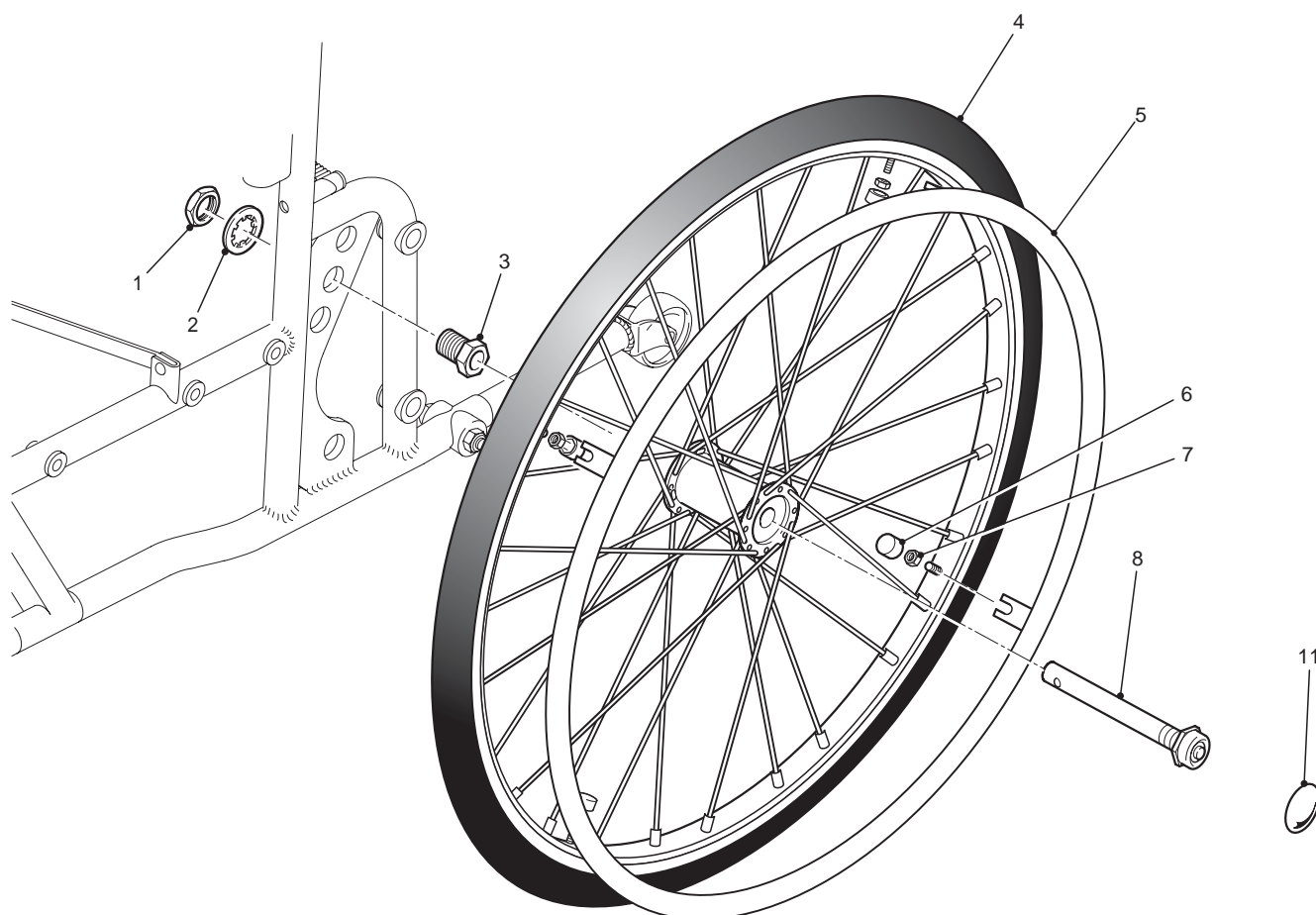
### Replacing A Main Wheel Assembly



**CAUTION:** Apply Loctite 242 to the thread of the wheel shaft and ensure that the transit wheel locknut is tightened to a torque of 25 lbf.ft.

 **Note:** Refer to section 2.3.1 for further information on configuration details.

- 6 Replacing the main wheel assemblies is the reverse of the removal.




- 1 Locking nut
- 2 Washer
- 3 Mounting bush
- 4 Tyre
- 5 Hand rim
- 6 Black nut cover
- 7 Nut
- 8 QR spindle
- 9 N/A
- 10 N/A
- 11 Plastic hub cap

**Figure 2.3.2 Self-Propelling Wheel Assemblies**



## 2.3.2 Removing/Replacing Rear Wheel Quick Release Assemblies

### General

 **Note:** This chair can be fitted with the following wheel types:

- (a) Transit style, 315 mm solid or pneumatic.
- (b) A 20 in, 22 in or 24 in diameter wheel with hand rim and Quick Release (Q.R.) hub, solid or pneumatic tyres.

- 1 Refer to section 2.3.3 for details on how to configure the chair when fitting larger 22 in or 24 in diameter wheels.
- 2 Check the wheel assembly for any defects (refer to paragraph 5). If any defects are observed then refer to paragraphs 6 to 11 for maintenance details and to Chapter 3 for parts.
- 3 The main wheel assembly can be renewed as either:
  - 3.1 A complete assembly.
  - 3.2 Replacement for the hand rim (20 in, 22 in or 24 in diameter wheel only).
  - 3.3 Pneumatic or solid tyre.

### Tools

- 4 Refer to the tool list at the beginning of this Chapter.
  - 4.1 A torque wrench of 25 lbf.ft rating is required.

### Inspection

- 5 Inspect on a weekly basis for the following:
  - 5.1 Damage to either wheel or tyre.
  - 5.2 When the wheel assembly is allowed to free wheel that no binding, grating noise, excessive bearing rock or unconcentric rotation are present.
  - 5.3 Wheel rim and spokes are undamaged.
  - 5.4 If fitted, the hand rim is undamaged.
  - 5.5 Quick release hub is fully located in place and the wheel is totally secure.

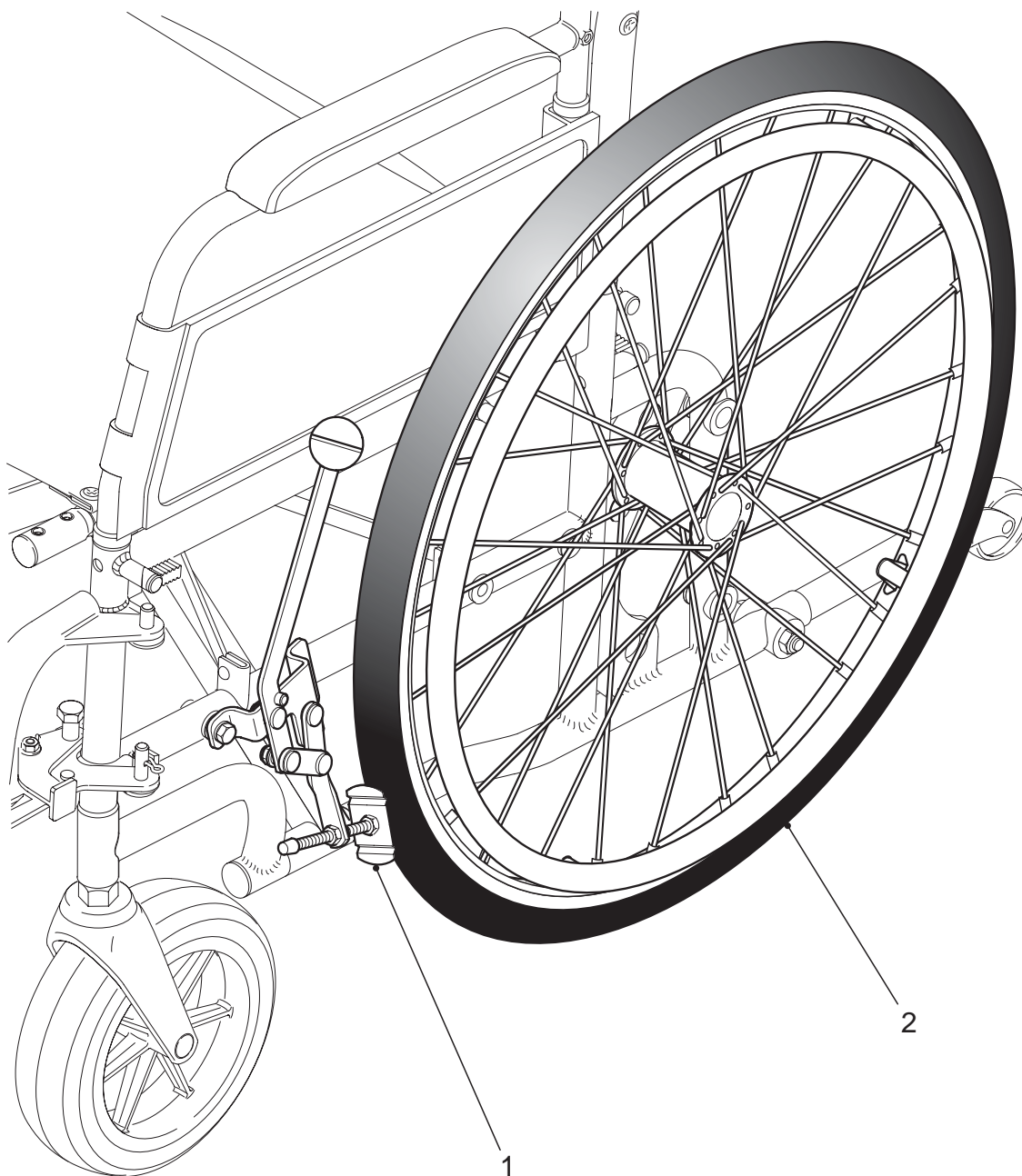
### Removing a 20", 22" or 24" Diameter Rear Wheel Assembly

- 8 To remove a QR hub fitted wheel, proceed as follows:
  - 81 Remove the hub cap (11).
  - 8.1 Push the inner button and slide the wheel assembly out of the locating block.
- 9 Prior to fitting the wheel assemblies, ensure that the location is undamaged.

### Replacing A Quick Release Wheel Assembly

 **Note:** Refer to section 2.3.1 for further information on configuration details.

- 10 Replacing the main wheel assemblies is the reverse of the removal.



1 Brake Assembly


2 Self Propelling Wheel Assembly

**Figure 2.3.3 Brake Configuration Arrangement**

## 2.3.3 Configuring The Chair For 20 in, 22 in or 24 in Wheel And Brake Assembly


### General


- 1 The CELT can be configured to accept the following set-up:
  - 1.1 20 in, 22 in or 24 in Quick Release wheel configured for self-propelling.

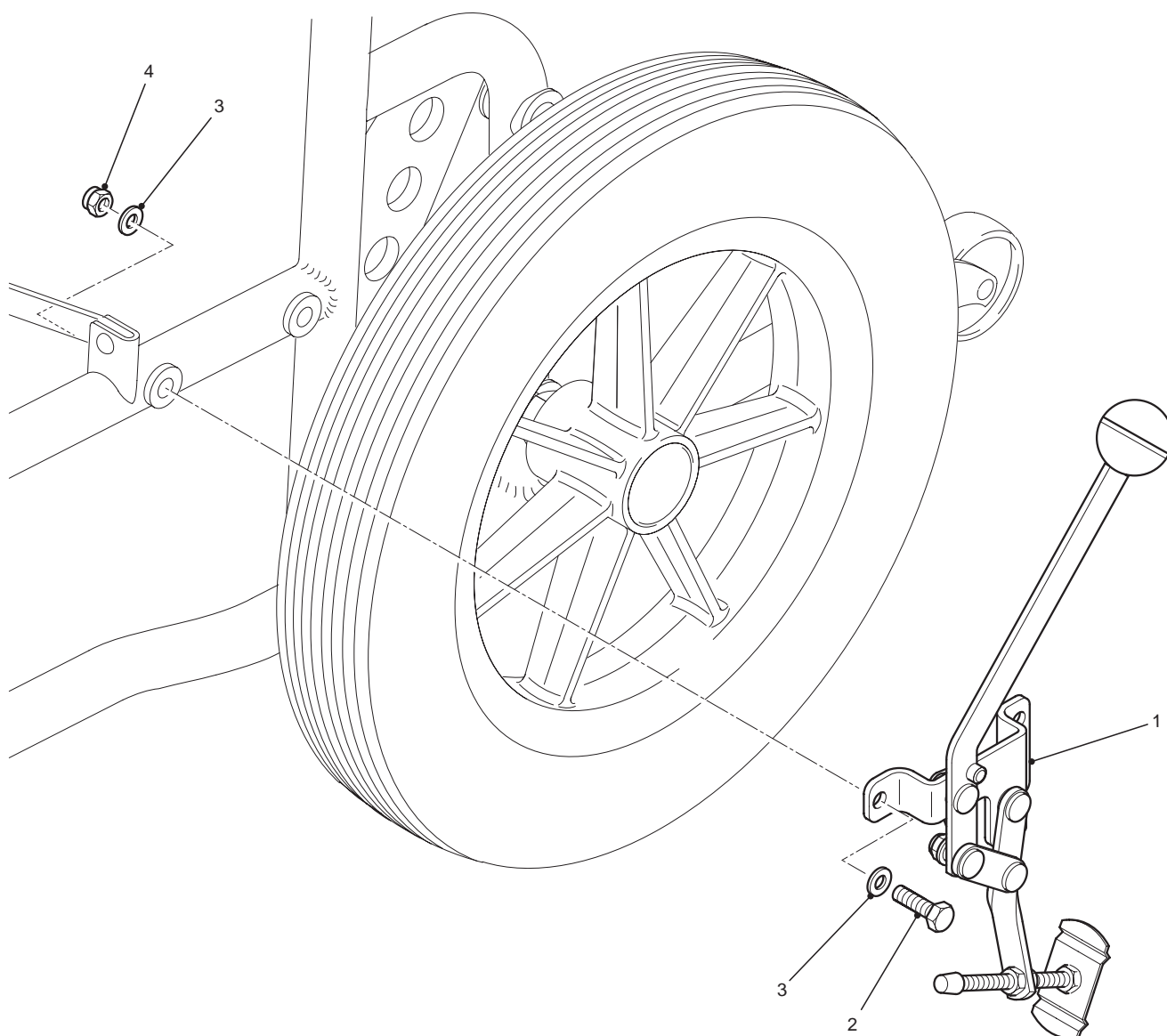
 **Note:** For parts identification refer to Chapter 3.

### Configuring

- 2 To configure the chair, the above information is required (check the order).
- 3 The following procedure is for guidance only:
  - 3.1 Select the relevant sized wheel.
  - 3.2 Fit the wheel into the correct locking hole on the chassis frame.

 **Note:** All locations are given when looking from the swing/detachable footrest assembly end.
- 4 Fit the brake assembly (1) into place on the chassis frame under the seat canvas.
- 5 Using the adjusting bar correctly position the stop bar on the brake to a suitable position so that when the brake is operated the wheel locks.
- 6 Repeat paragraphs (3 to 5) for the other side

 **Note:** 22 in wheel in R.W.S.B. position is bolt on not quick release.




- 1 Brake assembly
- 2 Hexagon bolt

- 3 Washer
- 4 Nut

**Figure 2.4 Brake Assembly**

## 2.4 Removing/Replacing A Brake Assembly

### General

 **Note:** The brake assembly is handed, ensure that if both assemblies are removed, the correct assembly is fitted to the correct side.


- 1 Check the brake assembly for any defects (refer to paragraph 4). If any defects are observed then refer to paragraphs 5 to 6 for maintenance details and to Chapter 3 for parts information.
- 2 It is not intended that any other part is maintainable.

### Tools

- 3 Refer to the tool list at the beginning of this Chapter.

### Inspection


- 4 Check the following daily:
  - 4.1 Brake assembly fully locks and the chair is unable to move either on level ground or on a slope.
  - 4.2 Brake action is positive and is not stiff or sluggish.

 **Note:** It may be possible to rectify excessive sluggishness in the mechanism by tightening the Toggle Joint nuts.

### Removing A Brake Assembly

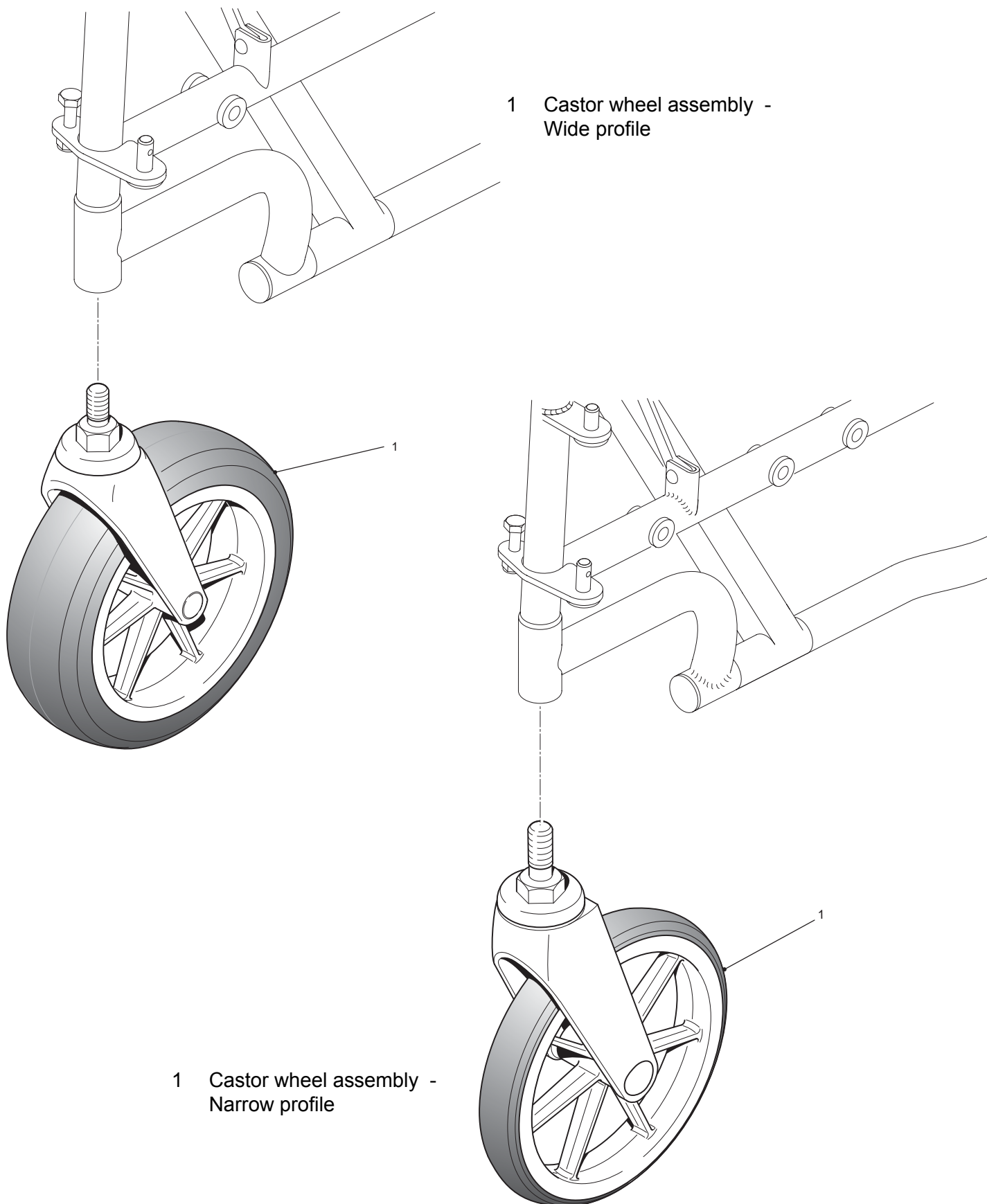
 **Note:** For ease of maintenance the Brake assembly can be removed as a complete assembly.

- 5 To remove the Brake assembly proceed as follows:
  - 5.1 Note down the position of the Brake assembly on the chassis. This will be required in order to replace the Brake assembly in exactly the same position.
  - 5.2 Ensure that Brake assembly is in the unlocked position.
  - 5.3 Support the Brake assembly (1) and using spanners of suitable size unscrew the Hex Head bolts (2) securing the Brake assembly to the chassis side frame.
  - 5.4 Remove the Brake assembly from its location.

 **Note:** In the event of faults or damage to any part of the Brake assembly, the complete assembly should be removed and replaced.

### Replacing A Brake Assembly

- 6 To replace a brake assembly is the reverse of the removal.



**Figure 2.5 Castor Wheel Assembly (Wide and Narrow Profile)**

## 2.5 Removing/Replacing A Castor Wheel Assembly

### General


- 1 Check the castor wheel assembly for any defects (refer to paragraph 4). If any defects are observed then refer to paragraphs 5 to 7 for maintenance details and to Chapter 3 for parts information.
- 2 It is not intended that any other part is maintainable.

### Tools

- 3 Refer to the tool list at the beginning of this Chapter.

### Inspection

- 4 Check the following:
  - 4.1 Castor Fork is not distorted and is undamaged.
  - 4.2 Tyre is not cracked or excessively worn.
  - 4.3 Castor Wheel rotates freely when lifted clear of the ground and spun.
  - 4.4 Alternatively, Pivot the castor Fork through a 90 degree arc, so that it is in a horizontal position. Allow the Fork and Wheel to drop. The assembly should swing 2 to 3 times and come to rest in a straight downward position.
  - 4.5 The tyre is firmly fitted and concentric within the rim.

 **Note:** In the event of failure in any of the above, the assembly must be removed and replaced.

- 4.6 Castor assembly is firmly located and secure.

### Removing A Castor Wheel Assembly

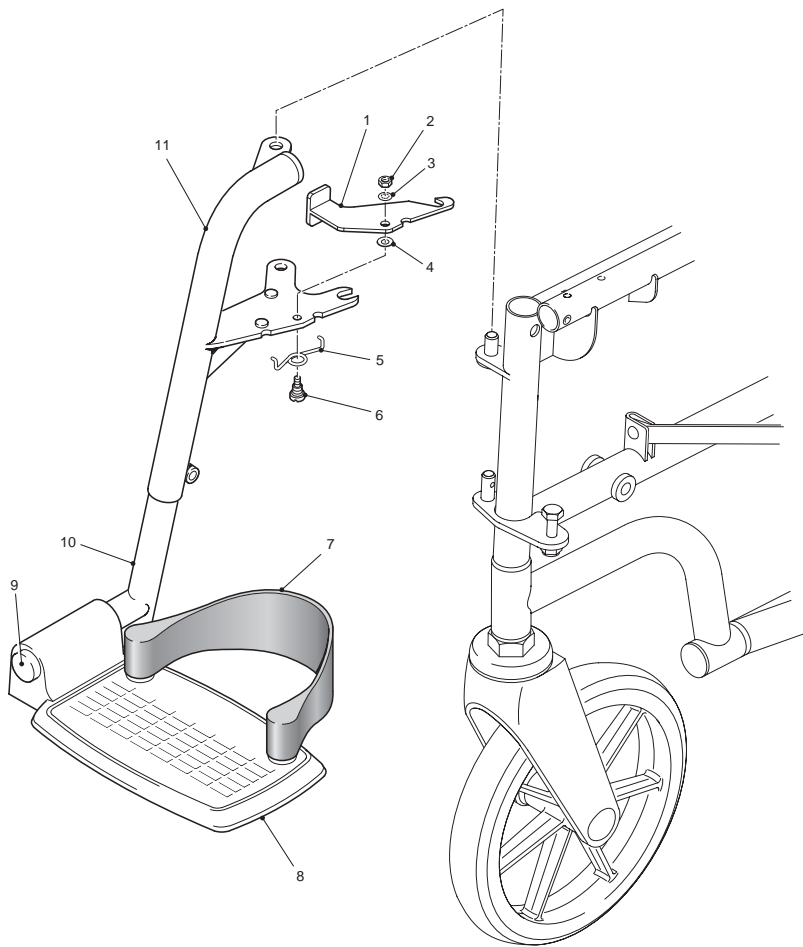
- 5 To remove the castor wheel assembly proceed as follows:
  - 5.1 Raise and support the front end of the chair. This can be achieved by tipping the chair back.
  - 5.2 Using an adjustable spanner unscrew the Fork nut until the castor assembly releases from its location.
  - 5.3 Remove the castor wheel assembly.
  - 5.4 Check that the castor wheel location is undamaged and clean.

### Replacing A Castor Wheel Assembly



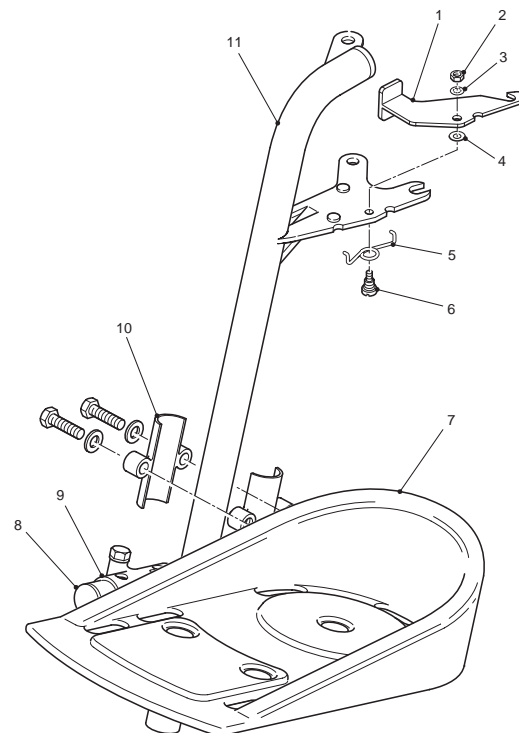
**Caution:** Apply Loctite 242 or equivalent to the thread of the castor wheel shaft and ensure that the castor wheel is tightened using the Fork nut to a torque of 30 lbf.ft.

- 6 Replacing the castor wheel assembly is the reverse of the removal; ensure the following:
  - 6.1 It is firmly located, secure and undamaged.
  - 6.2 Freely rotates through 360 degrees. Refer to paragraph 4.3.
- 7 Once correctly fitted, remove the support (if used) and allow the chair to sit on all four wheels. Check that it functions correctly.



- 1 Latching plate
- 2 Nut
- 3 Washer
- 4 Shim
- 5 Spring
- 6 Shouldered bolt
- 7 Heel sling assembly
- 8 Foot plate
- 9 Plastic cap
- 10 Stem tube assembly
- 11 Swinger tube

**(a) Standard Footrest**



- 1 Latching plate
- 2 Nut
- 3 Washer
- 4 Shim
- 5 Spring
- 6 Shouldered bolt
- 7 Foot plate
- 8 Foot plate stem tube
- 9 Foot plate front/rear tube
- 10 Clamp tube sub-assembly
- 11 Swinger tube

**(b) Optional Footrest**

**Figure 2.6 Swing/Detachable Footrest Assembly**



## 2.6 Removing/Replacing A Swing/Detachable Footrest Assembly

### General

- 1 Check the swing/detachable footrest assembly (Fig 2.6) for any defects (refer to paragraph 3). If any defects are observed then refer to paragraphs 5 to 9 for maintenance details and to Chapter 3 for parts information.

### Tools


- 2 Refer to the tool list at the beginning of this Chapter.

### Inspection

- 3 Check the following:
  - 3.1 Footplate (Fig 2.6 (a)) (8) is undamaged, fitted securely to the Stem Tube assembly (10), swivels up and down smoothly and is effectively supported in horizontal.
  - 3.2 Heel Sling assembly (7) is undamaged and securely fastened to the Footplate (8).
  - 3.3 Latching mechanism (1) functions correctly and the footrest assembly locks securely in place.
  - 3.4 Stem Tube assembly (10) is undamaged.
  - 3.5 Locating holes and Lugs are free from damage.
- 4 Any of the above defects or other damage will require the assembly to be repaired or replaced.

### Removing A Swing/Detachable Footrest Assembly


- 5 To remove the swing/detachable footrest assembly proceed as follows:
  - 5.1 Operate the latching mechanism and allow the footrest assembly to rotate away from the frame.
  - 5.2 Lift the swing/detachable footrest assembly free of the locating lugs.
- 6 To remove a footplate (8), proceed as follows:
  - 6.1 Remove the Plastic Cap (9), prise it loose with a screwdriver if necessary.
  - 6.2 Slide the Footplate (8) free of the Stem Tube assembly (10).
- 7 To remove a Heel Sling assembly (7), proceed as follows:

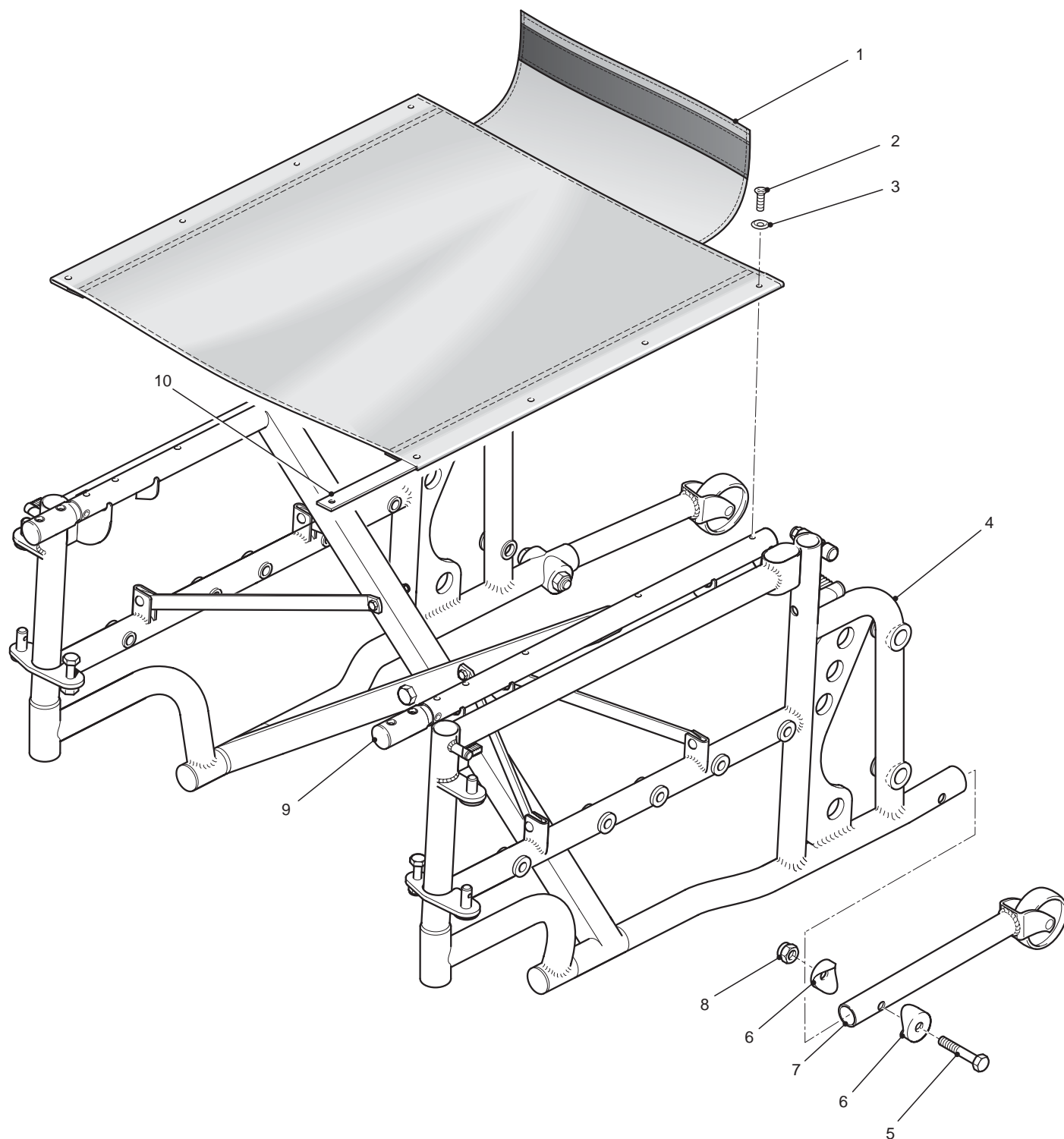
 **Note:** The heel sling assembly has flats on the two supports which can be used to enable the heel sling assembly to be removed.

- 7.1 Support the adjustable Stem Tube (10) in a soft jawed vice with the Footplate (8) upside down.
- 7.2 Support the Heel Sling assembly (7)
- 7.3 Unscrew and remove the two Nyloc nuts and washers located under the footplate.
- 7.4 Remove the Heel Sling assembly (7).

### Replacing A Swing/Detachable Footrest Assembly

- 8 Replacing any component previously mentioned is the reverse of the removal, refer to paragraphs (5) to (7),

 **Note:** Use new bolts and nuts, plastic cap, etc., if the removed fasteners show sign of excessive wear or damage to threads.



- 1 Seat canvas
- 2 Screw
- 3 Washer
- 4 Side frame
- 5 Hexagonal head bolt

- 6 Dished washer
- 7 Stabiliser
- 8 Nyloc nut
- 9 Plastic cap
- 10 Reinforcing bar

**Figure 2.7 Seat Canvas Assembly**

## 2.7 Removing/Replacing A Seat Canvas

### General

- 1 Check the Seat Canvas (1) for any defects (refer to paragraph 3). If any defects are observed then refer to paragraphs 5 to 6 for maintenance details and to Chapter 3 for parts information.

### Tools

- 2 Refer to the tool list at the beginning of this Chapter.


### Inspection

- 3 Check for the following:
  - 3.1 Damage to Seat Canvas (1).
  - 3.2 Sagging.
  - 3.3 Reinforcing Bar (10) missing and/or damaged.
- 4 Generally replace and/or tighten any Screws or Cup Washers that are missing/damaged or are loose.

### Removing The Seat Canvas

- 5 To remove the Seat Canvas (1) proceed as follows:
  - 5.1 Unscrew and remove the eight countersunk screws (2) and Cup Washers (3).
  - 5.2 Remove the two Reinforcing Bars (10) located inside the seat canvas.
  - 5.3 Remove the Seat Canvas (1).

### Replacing The Seat Canvas

 **Note:** Check for the correct seat canvas size.

- 6 Replacing the Seat Canvas (1) is the reverse of the removal, refer to Chapter 3 for parts information.
- 7 Ensure that the Seat Canvas (1) is correct for the size of chair being repaired. If a new size is being fitted i.e. from 16 in to 17 in deep then check the following:
  - 7.1 Correct size reinforcing bars (10) are used.
  - 7.2 Seat adjustment tubes have been correctly adjusted.

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## **Chapter 3**

### **Illustrated Parts Catalogue**

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## General

- 1 This chapter has been split into sections which correspond to the sections in chapter 2.
- 2 Refer to the general assembly Figure 3.0 for location of the assemblies covered by the following sections:

Section	Assembly	Pages
3.1	Backrest Assemblies	6-13
3.2	Armrest Assemblies	14-17
3.3	Rear Wheel Assemblies	18-21
3.4	Brake Assembly	22-23
3.5	Castor Wheel Assemblies	24-25
3.6	Swing/Detachable Footrest Assemblies	26-29
3.7	Seat Assembly	30-33
3.8	Optional Extras	34-39

- 3 Each section contains the following information in table format:

- 3.1 Fig/Item reference number
- 3.2 Part Number
- 3.3 Description
- 3.4 Qty fitted

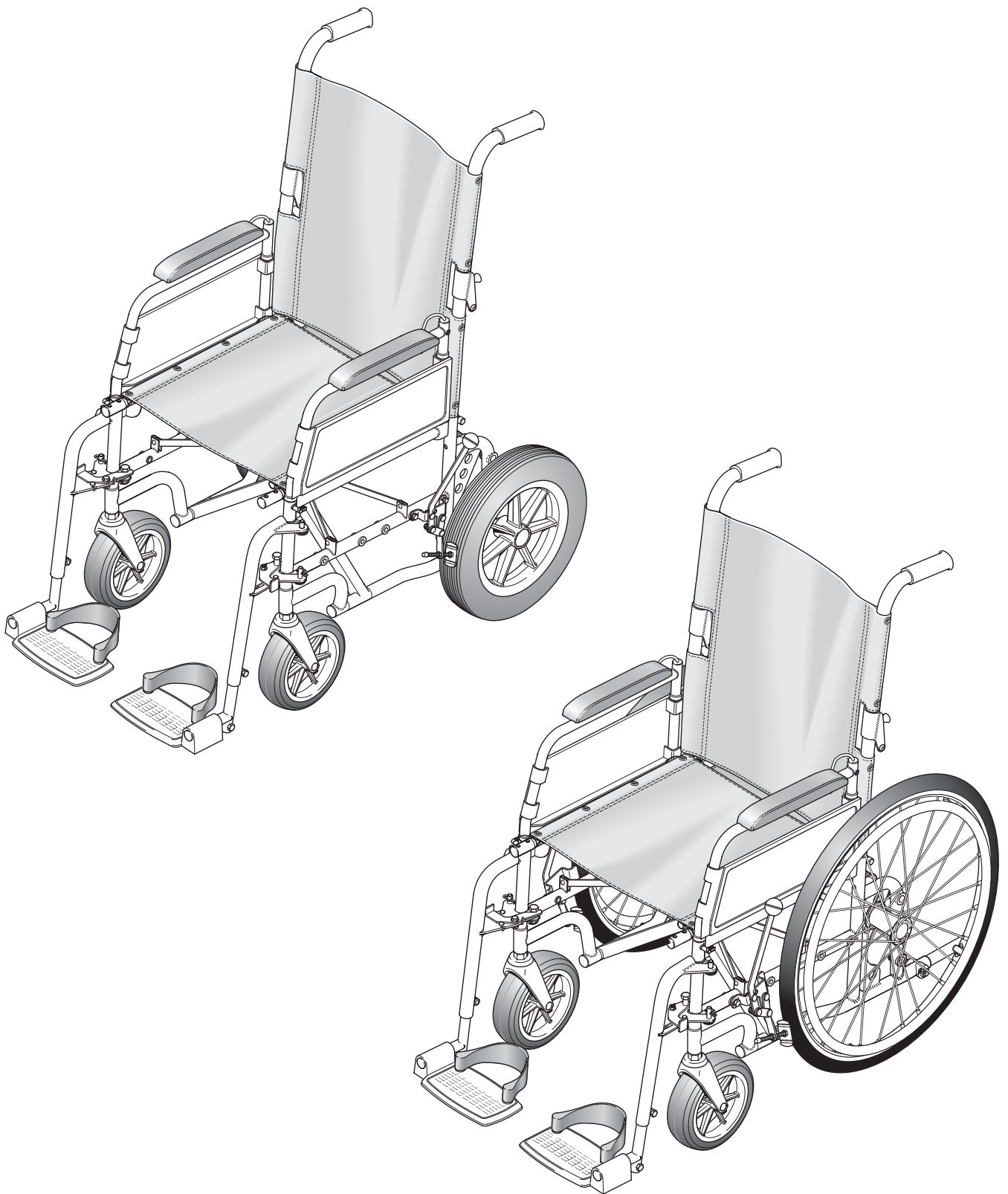
 **Note:** The following references are used:

A/R Denote fasteners etc where the fastener, such as nuts are common to the chair.

NI When an assembly or component is not illustrated.

## Ordering Information


- 4 To order components or parts information from the relevant address, refer to Chapter 1. Always quote the following:
  - 4.1 Part Number
  - 4.2 Description
  - 4.3 Quantity required
- 5 For certain orders the following should also be quoted
  - 5.1 Serial or batch number
  - 5.2 End user



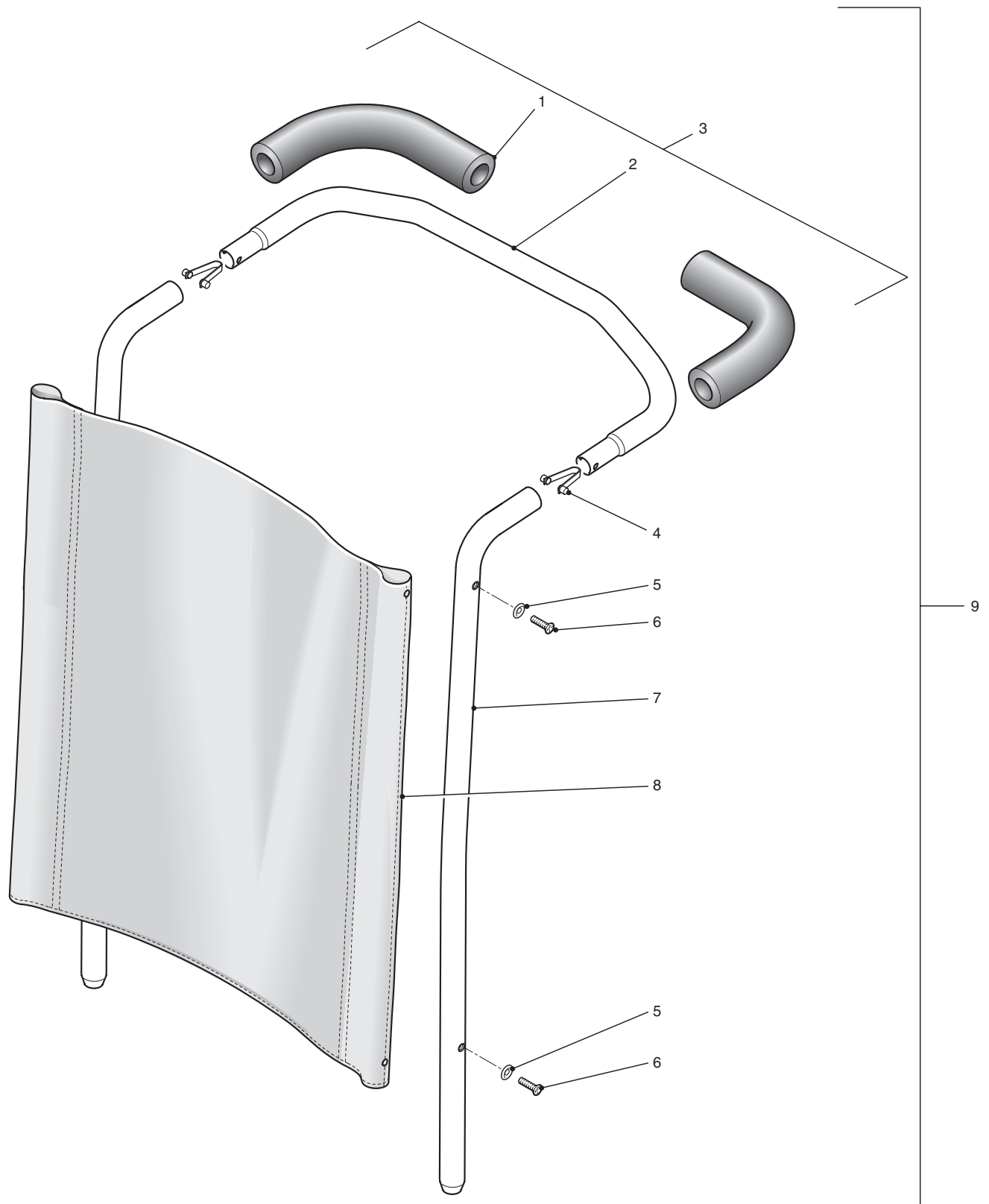
**Figure 3.0 General Arrangement of CELT Wheelchair**



CELT Wheelchair Assembly


 **Note:** Optional chair sizes, 13 in to 19 in width.

Item	Part Number	Description
1		Backrest Assembly 1
2		Armrest Assembly 2
3		Rear Wheels 2
4		Brake Assembly LH 1
5		Front Castors 2
6		Footplate Assembly RH 1
7		Seat Canvas 1

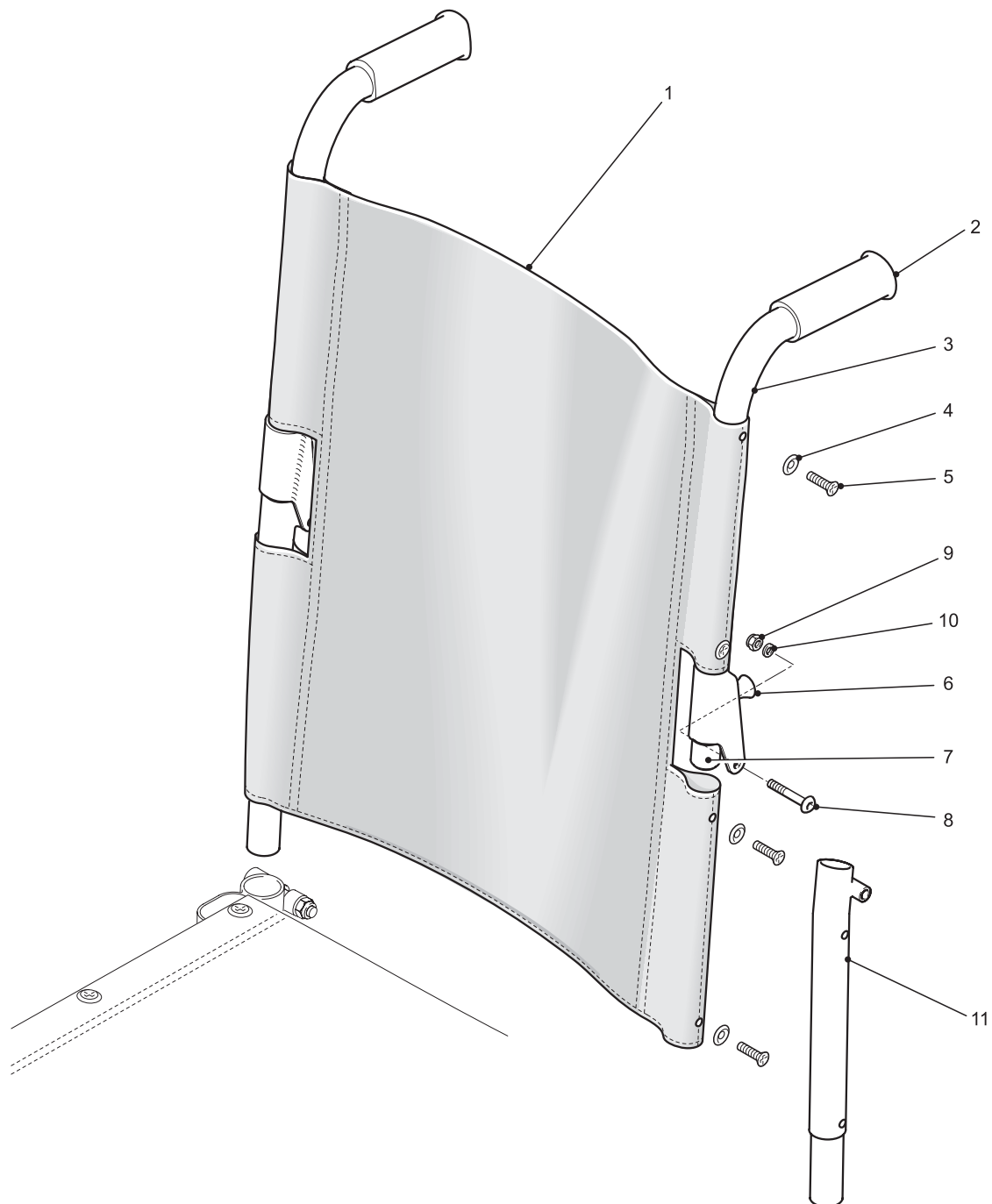


**Figure 3.1. (a) Backrest Assemblies**

## Fixed Backrest Assembly


 **Note:** Optional chair sizes, 13 in to 19 in width.

Item	Part Number	Description
3	3013/33	Fixed Backrest Assembly 13" Push Bar Assembly - Kit includes items 1,2 & 4
	3015/33	15" Push Bar Assembly - Kit includes items 1,2 & 4
	3016/33	16" Push Bar Assembly - Kit includes items 1,2 & 4
	3017/33	17" Push Bar Assembly - Kit includes items 1,2 & 4
	3018/33	18" Push Bar Assembly - Kit includes items 1,2 & 4
	3018/34	19" Push Bar Assembly - Kit includes items 1,2 & 4
5	D20101	M5 x 20 Taptite Screw
6	5009551	Upholstery Plastic Washer
7	3017/58/08	Fixed Backrest Tube Assembly (Pairs)
	3017/58/15	Fixed Backrest Tube Assembly (Pairs)
	3017/58/20	Fixed Backrest Tube Assembly (Pairs)
	3017/58/25	Fixed Backrest Tube Assembly (Pairs)
8	1415290	Fixed Backrest Canvas 330 (13") Wide
	1415291	Fixed Backrest Canvas 381 (15") Wide
	1415292	Fixed Backrest Canvas 406 (16") Wide
	1415293	Fixed Backrest Canvas 432 (17") Wide
	1415294	Fixed Backrest Canvas 457 (18") Wide
	1415295	Fixed Backrest Canvas 483 (19") Wide
9	1422265	Fixed Backrest Assembly Complete 330 (13") Wide
	1422266	Fixed Backrest Assembly Complete 381 (15") Wide
	1422267	Fixed Backrest Assembly Complete 406 (16") Wide
	1422268	Fixed Backrest Assembly Complete 432 (17") Wide
	1422269	Fixed Backrest Assembly Complete 457 (18") Wide
	1422270	Fixed Backrest Assembly Complete 483 (19") Wide

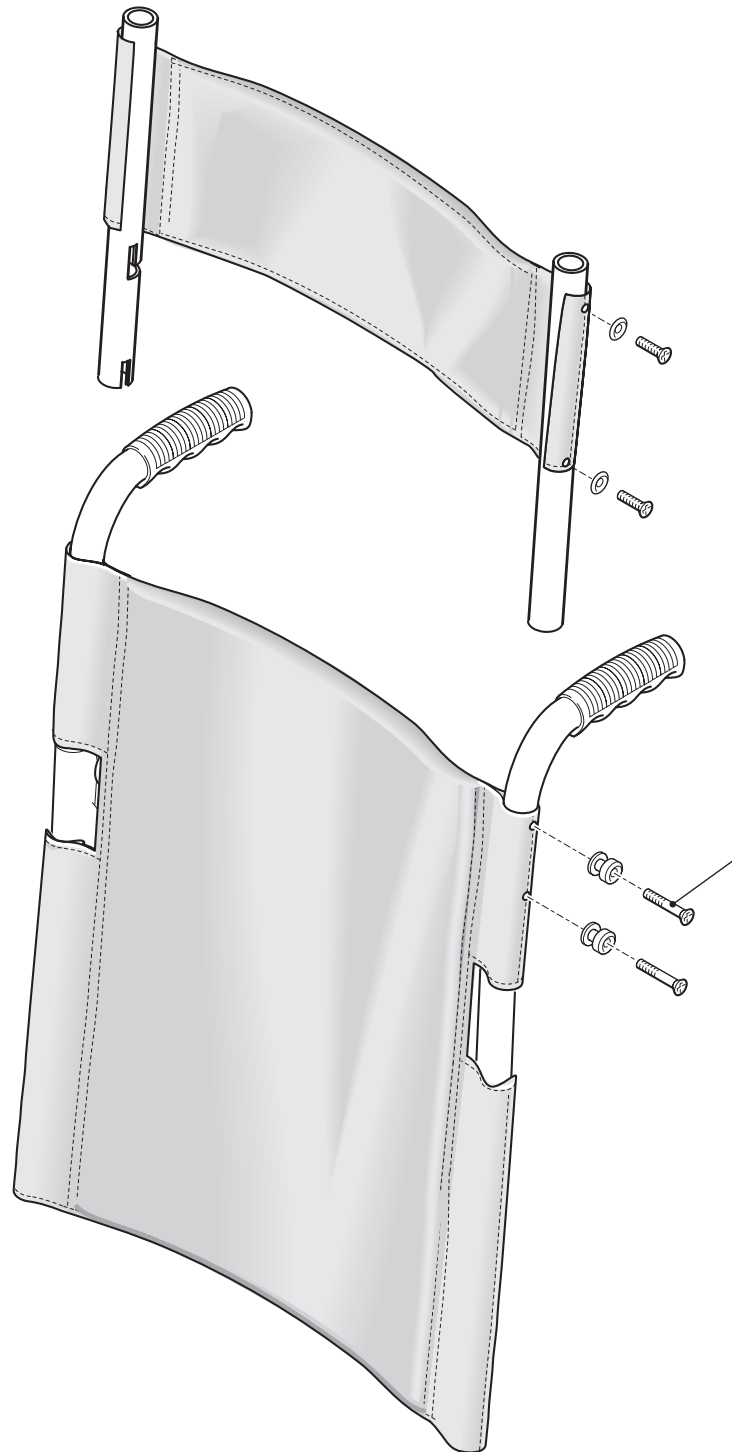


**Figure 3.1. (b) Backrest Assemblies**

## Folding Backrest Assembly


 **Note:** Optional chair sizes, 13 in to 19 in width.

Item	Part Number	Description
1	1415284	Folding Backrest Assembly
	1415285	Folding Backrest Canvas 330 (13") Wide
	1415286	Folding Backrest Canvas 381 (15") Wide
	1415287	Folding Backrest Canvas 406 (16") Wide
	1415288	Folding Backrest Canvas 432 (17") Wide
	1415289	Folding Backrest Canvas 457 (18") Wide
	1415289	Folding Backrest Canvas 483 (19") Wide
2	L10009	Handgrip
4	5009551	Upholstery Plastic Washer
5	D20101	M5 x 20 Taptite Screw
12	3017/49/08	8Deg Folding Backrest (Pairs)
	3017/49/15	15Deg Folding Backrest (Pairs)
	3017/49/20	20Deg Folding Backrest (Pairs)
		Item 12 Includes 2,3,6,7,8,9,10, & 11

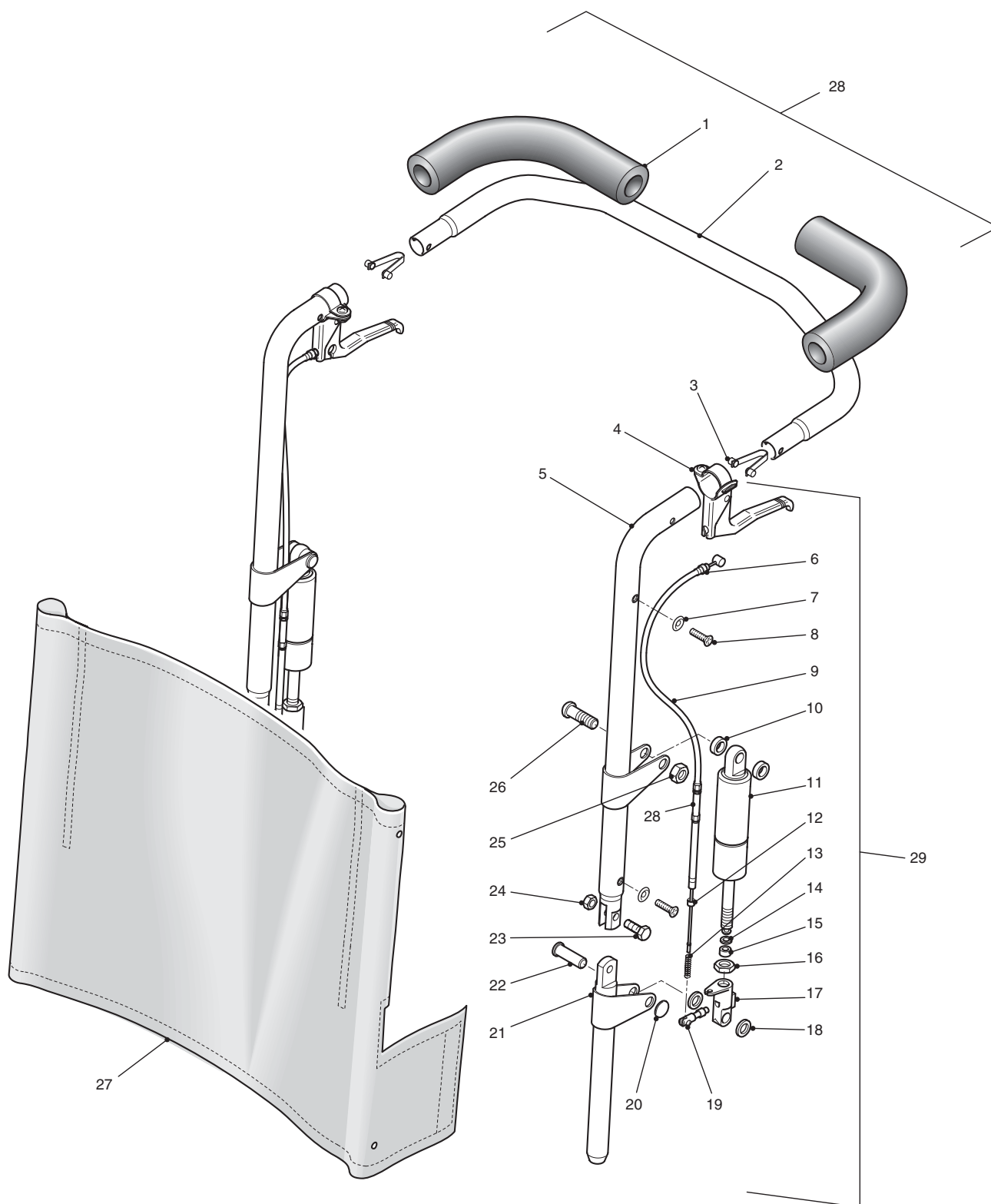


**Figure 3.1. (c) Backrest Extension**

Backrest Extension Assembly

 **Note:** Optional chair sizes, 13 in to 19 in width.

Item	Part Number	Description
		<b>Backrest Extensions</b>
	1415314	B/rest Ext Assy 330 (13") Wide 230 H
	1415315	B/rest Ext Assy 381 (15") Wide 230 H
	1415316	B/rest Ext Assy 406 (16") Wide 230 H
	1415317	B/rest Ext Assy 432 (17") Wide 230 H
	1415318	B/rest Ext Assy 457 (18") Wide 230 H
	1415319	B/rest Ext Assy 483 (19") Wide 230 H



**Figure 3.1 (d) Reclining Backrest Assembly**



## Reclining Backrest Assembly

Item	Part Number	Description
		<b>Reclining Backrest Assembly Std 17" High</b>
29	3017/TA 3017/TF	Reclining Backrest Tube Assembly RH Reclining Backrest Tube Assembly LH
28	3013/33 3015/33 3016/33 3017/33 3018/33 3018/34	13" Push Bar Assembly - Kit includes items 1,2 & 3 15" Push Bar Assembly - Kit includes items 1,2 & 3 16" Push Bar Assembly - Kit includes items 1,2 & 3 17" Push Bar Assembly - Kit includes items 1,2 & 3 18" Push Bar Assembly - Kit includes items 1,2 & 3 19" Push Bar Assembly - Kit includes items 1,2 & 3
27	1415296 1415297 1415298 1415299 1415300 1415301	Rec B/rest Canvas 330 (13"") Wide 17" H Rec B/rest Canvas 381 (15"") Wide 17" H Rec B/rest Canvas 406 (16"") Wide 17" H Rec B/rest Canvas 432 (17"") Wide 17" H Rec B/rest Canvas 457 (18"") Wide 17" H Rec B/rest Canvas 483 (19"") Wide 17" H
11	3017/RA/01	Gas Strut 400N
		<b>Reclining Backrest Assembly 21" High</b>
NI	1415302 1415303 1415304 1415305 1415306 1415307	Rec B/rest Canvas 330 (13"") Wide 21" H Rec B/rest Canvas 381 (15"") Wide 21" H Rec B/rest Canvas 406 (16"") Wide 21" H Rec B/rest Canvas 432 (17"") Wide 21" H Rec B/rest Canvas 457 (18"") Wide 21" H Rec B/rest Canvas 483 (19"") Wide 21" H
NI	3017/FF 3017/FR	Rec B/rest Tube Assembly RH 21"H Rec B/rest Tube Assembly LH 21"H

Figure 3.1 (e) Extended Reclining Backrest Assy

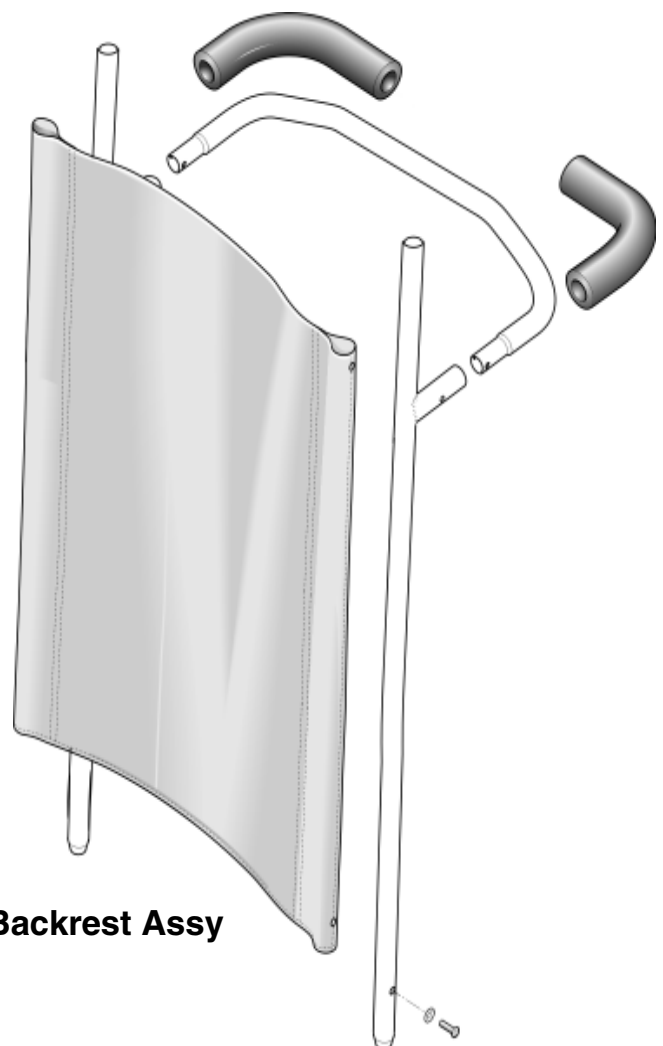
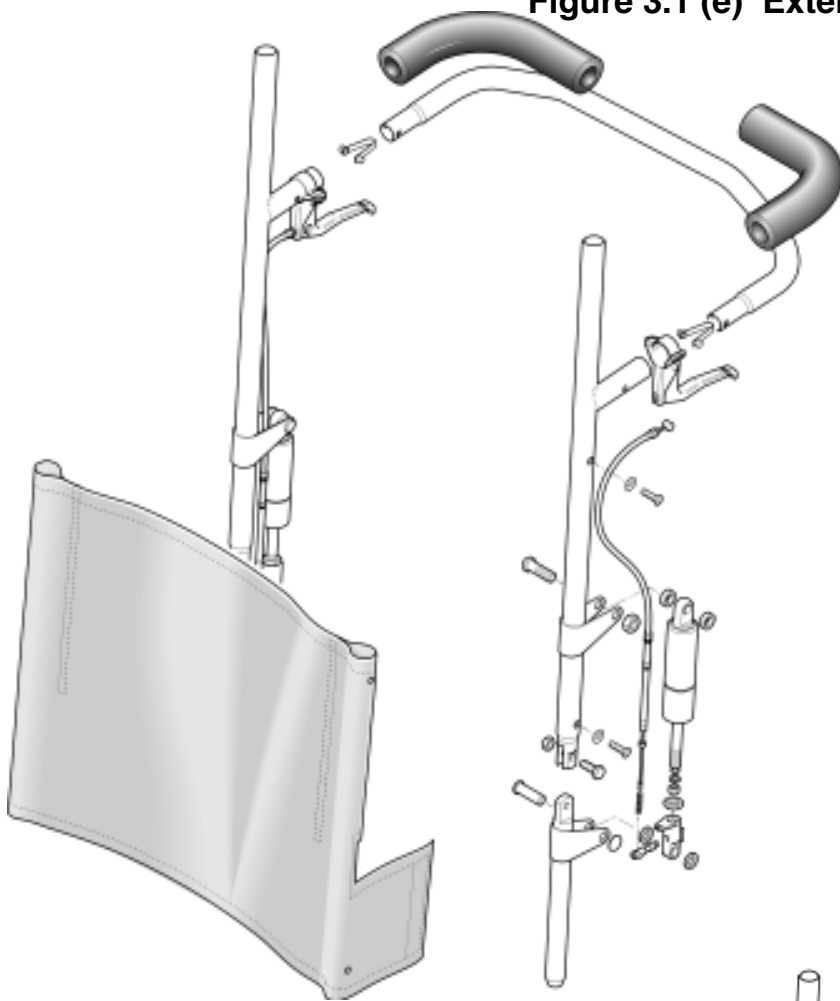
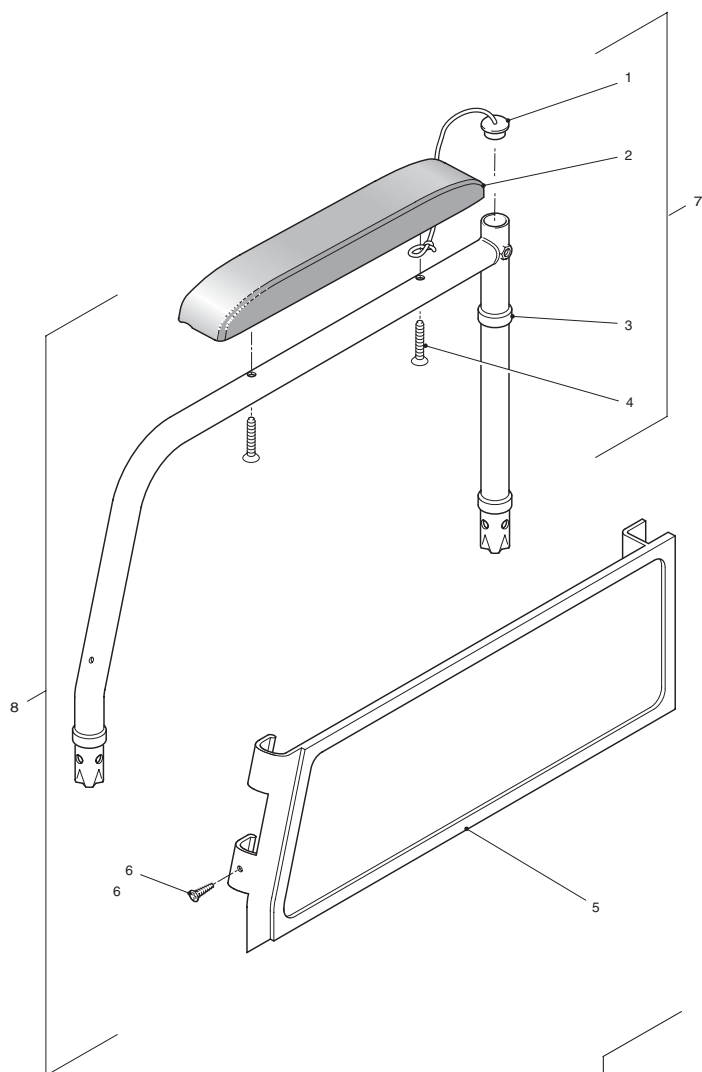


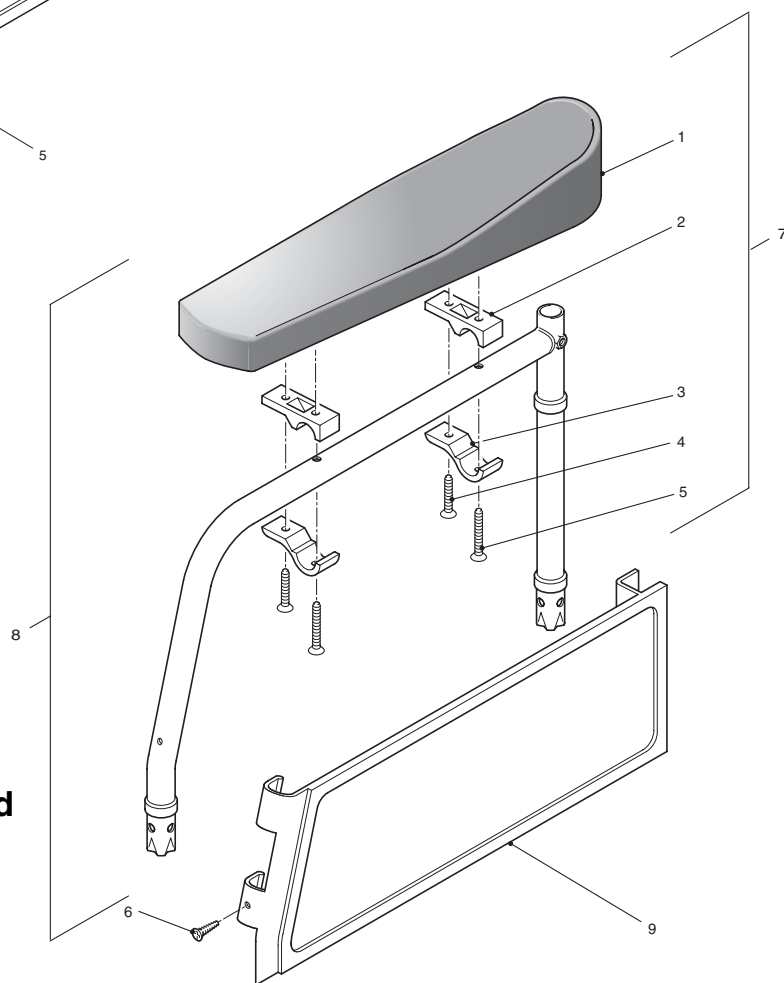
Figure 3.1 (f) Extended Fixed Backrest Assy

## Extended Backrest Assemblies

Item	Part Number	Description
		<b>Extended Recliner Backrest Assembly 25" and 32.5" High</b>
	1436892	25" Ext recliner b/rest assy kit RH
	1436893	25" Ext recliner b/rest assy kit LH
	1436894	32.5" Ext recliner b/rest assy kit RH
	1436895	32.5" Ext recliner b/rest assy kit LH
	1426027	330 (13") Wide Rec B/Rest Canvas 825mm High
	1426028	381 (15") Wide Rec B/Rest Canvas 825mm High
	1426029	406 (16") Wide Rec B/Rest Canvas 825mm High
	1426030	432 (17") Wide Rec B/Rest Canvas 825mm High
	1426031	457 (18") Wide Rec B/Rest Canvas 825mm High
	1426032	483 (19") Wide Rec B/Rest Canvas 825mm High
	1426033	330 (13") Wide Rec B/Rest Canvas 625mm High
	1426034	381 (15") Wide Rec B/Rest Canvas 625mm High
	1426035	406 (16") Wide Rec B/Rest Canvas 625mm High
	1426036	432 (17") Wide Rec B/Rest Canvas 625mm High
	1426037	457 (18") Wide Rec B/Rest Canvas 625mm High
	1426038	483 (19") Wide Rec B/Rest Canvas 625mm High
		<b>Extended Fixed Backs 32.5" High</b>
	1436896	32.5" Ext fixed b/rest assy kit RH
	1436897	32.5" Ext fixed b/rest assy kit LH
	1426039	330 (13") Wide Fixed B/Rest Canvas 825mm High
	1426040	381 (15") Wide Fixed B/Rest Canvas 825mm High
	1426041	406 (16") Wide Fixed B/Rest Canvas 825mm High
	1426042	432 (17") Wide Fixed B/Rest Canvas 825mm High
	1426043	457 (18") Wide Fixed B/Rest Canvas 825mm High
	1426044	483 (19") Wide Fixed B/Rest Canvas 825mm High



**(a) Full Armrest**

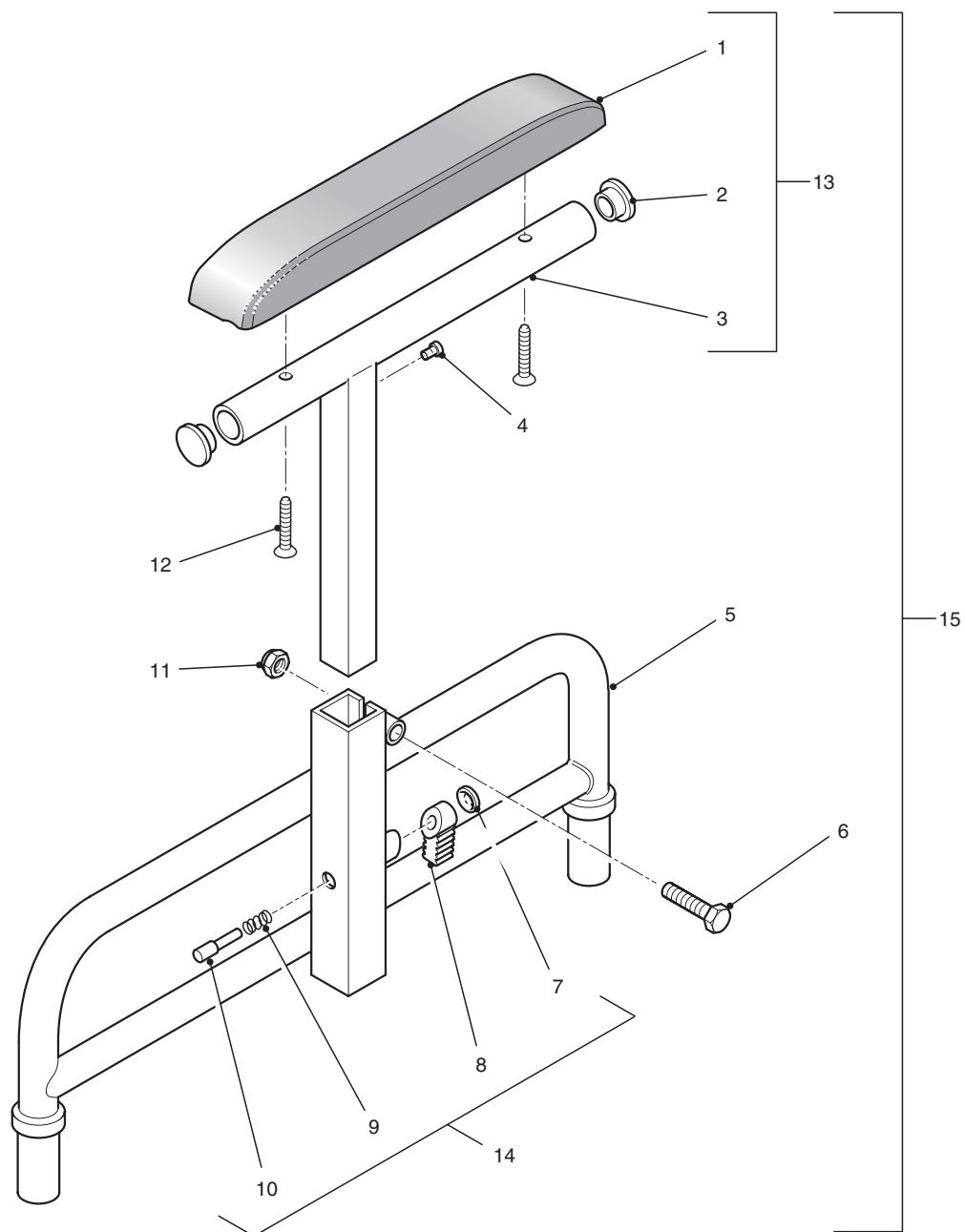


**(b) Armrest with Contoured Armpad**

**Figure 3.2 Armrest Assemblies**

## Full Armrest Assemblies with Standard and Contoured Armpads

Item	Part Number	Description
8	1416162	Full Armrest With Std & Contoured Armpads
	1416163	Full Armrest With Std Armpad RH Full Armrest With Std Armpad LH
5	3017/17/01	Plastic Panel RH
	3017/19/01	Plastic Panel LH
7	10"BLKPADKIT	10" Black Armpad Kit (Includes items 1,2 & 4)
8	Full Armrest With Contoured Armpads	
	1422210	Contoured Armrest Assy RH
	1422211	Contoured Armrest Assy LH
7	SKA 2304	Contoured Armpad RH (includes items1 to 5)
	SKA 2305	Contoured Armpad LH (includes items1 to 5)
9	3017/17/01	Plastic Panel RH
	3017/19/01	Plastic Panel LH

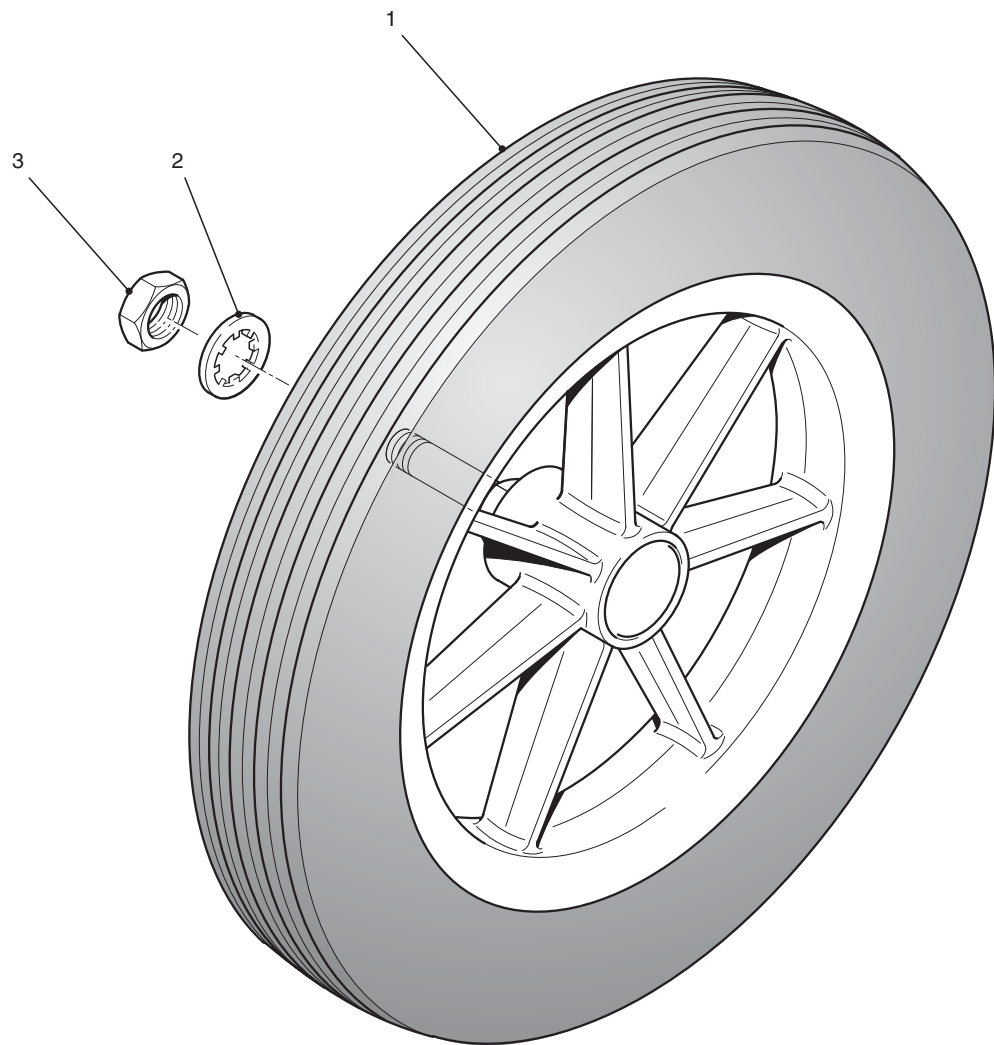


**Note:** Adjustable Armrest is available as an option only on 315 (12 1/2") wheels.

**Figure 3.2.c Adjustable Armrest Assembly**

**Adjustable and Sports Armrest Assemblies**

Item	Part Number	Description
15	1416168 1416169	Adjustable Armrest Assembly Det. Adj armrest complete RH Det. Adj armrest complete LH
13	3017/55RH 3017/55LH	Adj Arm Stem Assy RH (Includes Items 1,2,3,4 & 12) Adj Arm Stem Assy LH (Includes Items 1,2,3,4 & 12)
14	ARMLOCKKIT	Armrest Lock Kit Assembly (Includes Items 7,8,9 & 10)



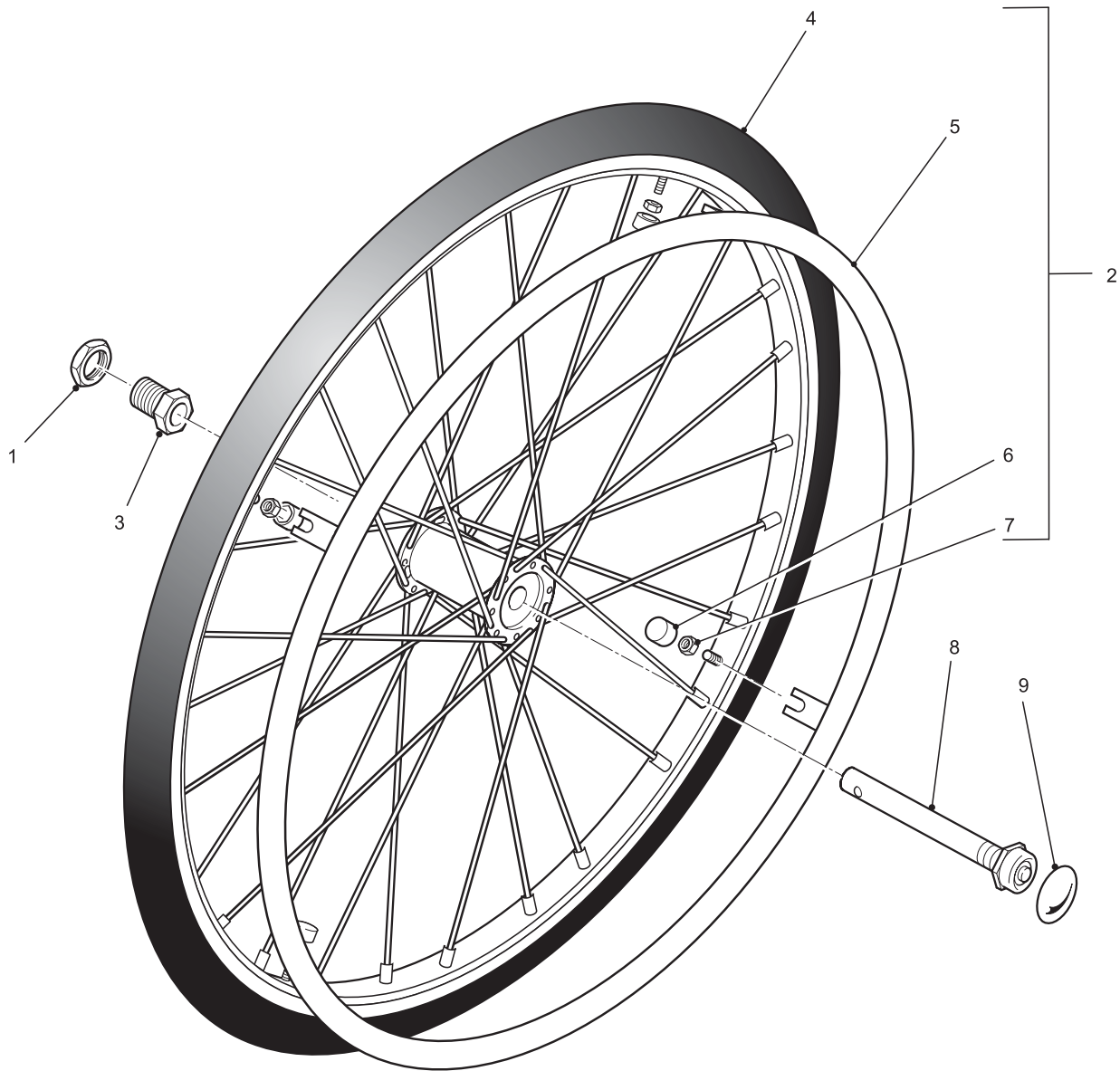
**(a) 315mm MCP Wheel**

**Figure 3.3 Rear Wheel Assembly**



**315mm Rear Wheel Assembly**

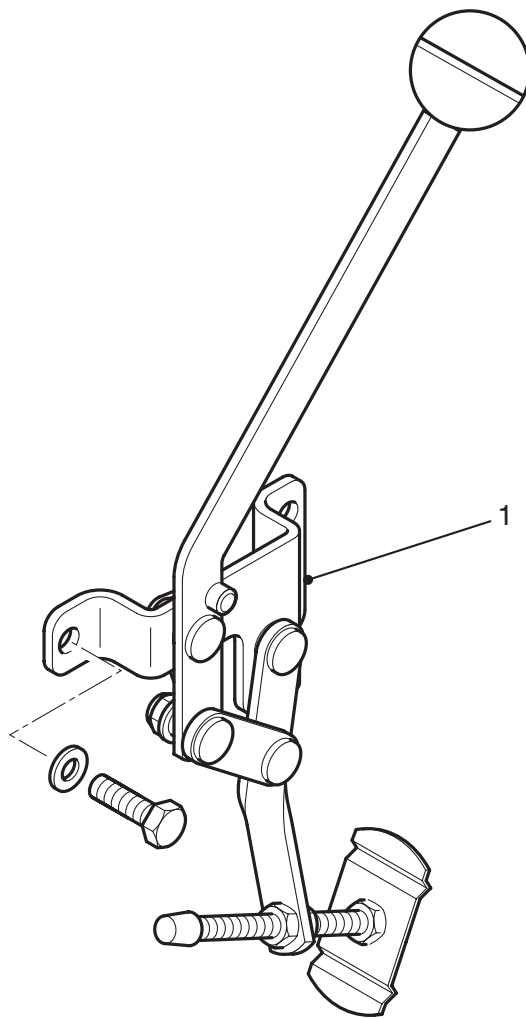
Item	Part Number	Description
1		315mm Rear Wheel Assembly
	1315/02WP	315mm Rear Wheel Fitted With Solid Tyre
	1315/00PNEU	315mm Rear Wheel Fitted With Pneumatic Tyre
	1NPH3003	1/2" UNF Locknut
	1WSE2002	1/2" Shakeproof Washer
	M12004	Inner Tube 12 1/2"x2 1/4" (Pneumatic)
	M11005	Tyre 12 1/2" x 2 1/4" PT Std. (Pneumatic)



**Figure 3.3 20", 22", 24" Self Propelling Rear Wheel Assemblies**

## 20", 22" and 24" Self-Propelling Rear Wheel Assemblies

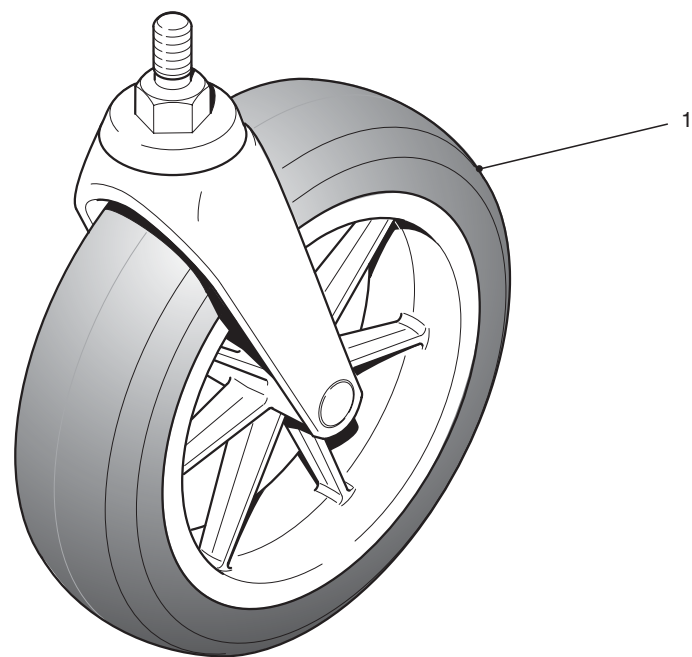
Item	Part Number	Description
		20", 22" & 24" Self-Propelling Rear Wheel Assemblies
2	1020/00SQRBLK 1020/00SQRSOLBLK 1420389 1422181 1420390 1422182	20" QR Pneumatic Wheel C/W Black Handrim 20" QR Solid Wheel C/W Black Handrim 22" Pneumatic Wheel C/W Black Handrim 22" Solid Wheel C/W Black Handrim 24" Pneumatic Wheel C/W Black Handrim 24" Solid Wheel C/W Black Handrim
4 NI	M11009 M12005 M11003 M12002 M11008 M12006	Tyre 20" x1 3/8" Grey PT Inner Tube 20" x 1 3/8" Tyre 22" x1 3/8" Grey PT Inner Tube 22" x1 3/8" Tyre 24" x1 3/8" Grey PT Inner Tube 24" x1 3/8"
NI	1TYR2002 1TYR2003 1TYR2004	20" Solid Tyre 22" Solid Tyre 24" Solid Tyre
5	1020/03 BLK 1422257 1422258	Handrim 20" Black Coated Steel Handrim 22" Alloy Black 6 Hole Fixing Handrim 24" Alloy Black 6 Hole Fixing
8 3 1 11	SKA2671 SKA1997 3017/00/02 SKA2775BLK	Q.R. Spindle Assy 1/2" Q.R. Wheel Mtg Bush Lock Nut Black Plastic Hub Cover



**Figure 3.4 Brake Assembly**

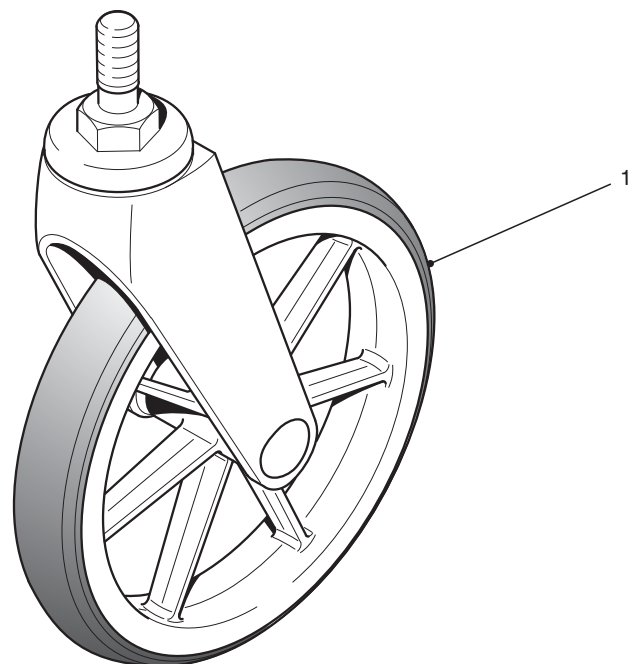
**Brake Assembly**

Item	Part Number	Description
1	1422163 1422164	Brake Assembly Brake Assembly RH Brake Assembly LH
NI	3017/22EXT 3017/28EXT	Extended Brake Assembly RH Extended Brake Assembly LH



**(a) Wide Profile**

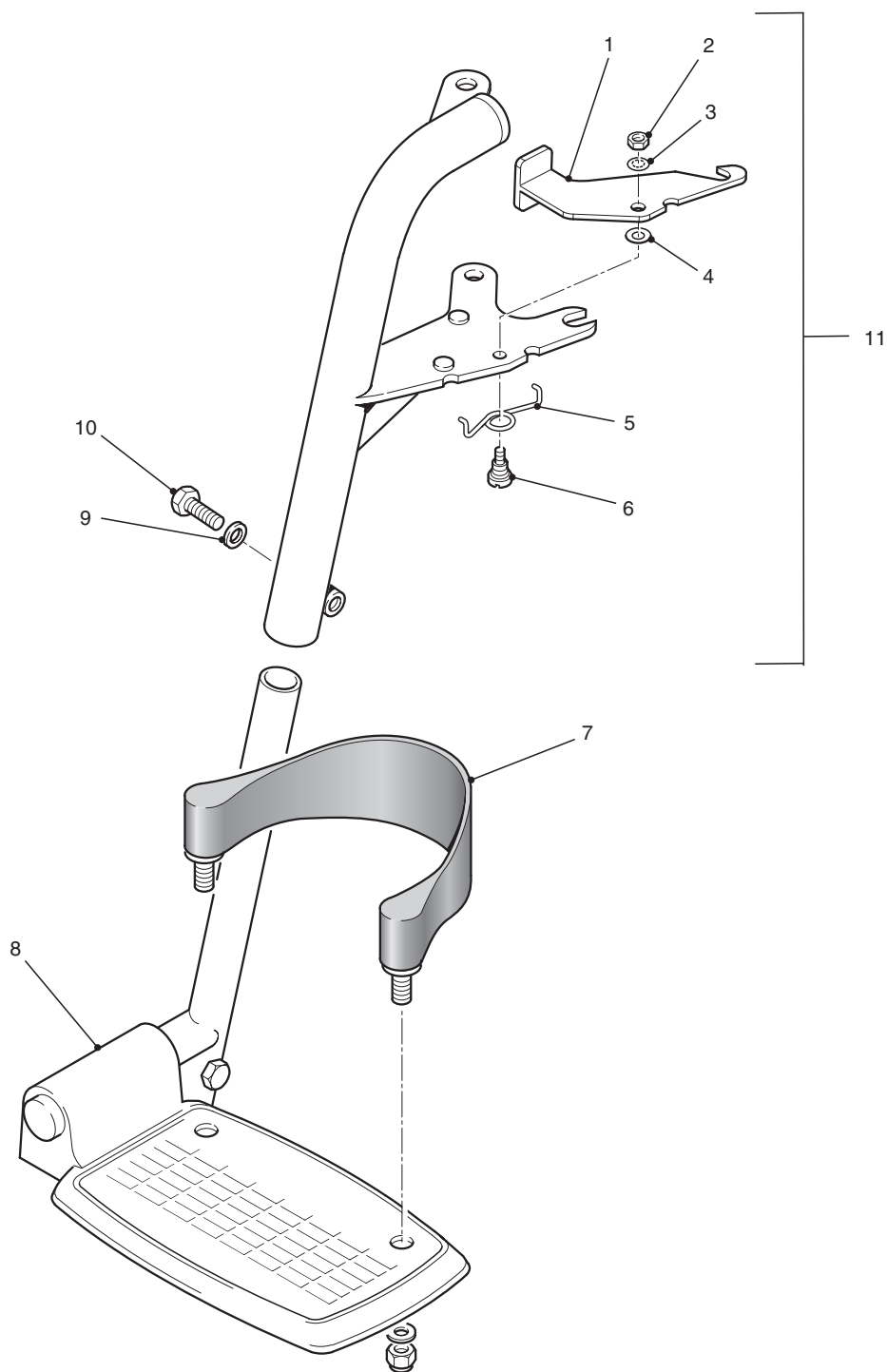
**(b) Narrow Profile**



**Figure 3.5 Castor Wheel Assemblies**

Castor Wheel Assembly

Item	Part Number	Description
1	1190/00WPBLK	Castor Wheel Assembly
1	1190/00SLBLK	190mm Wide Profile Black Castor
		190mm Narrow Profile Black Castor

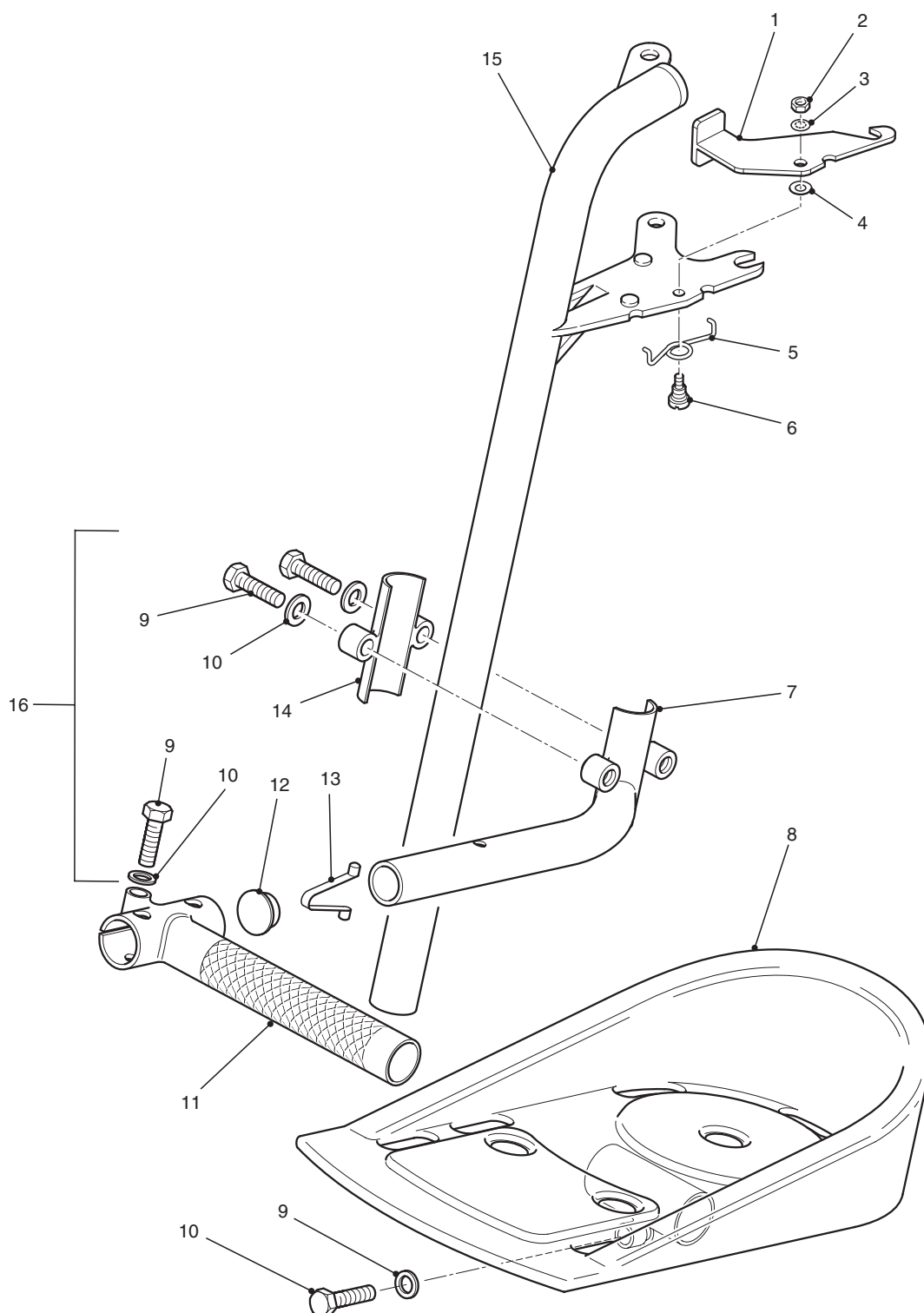


**Figure 3.6 (a) Swing/Detachable Footrest Assembly**



## Swing/Detachable Footrest Assembly

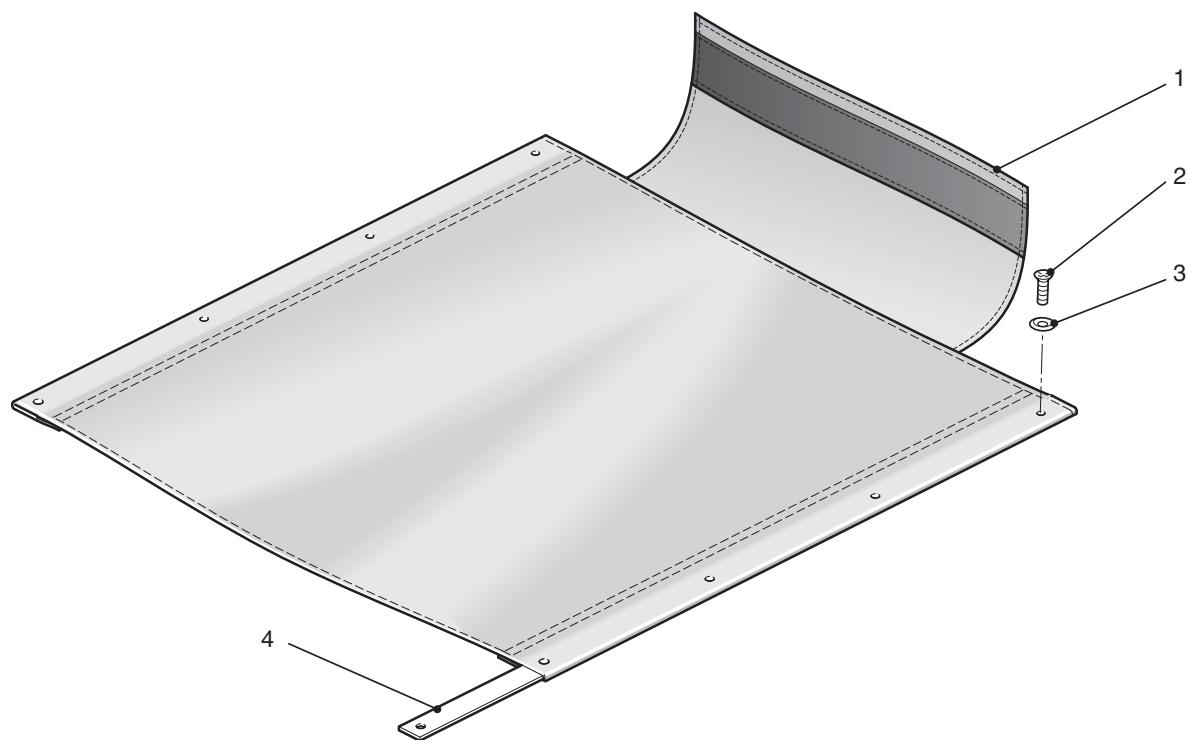
Item	Part Number	Description
11	9000/27BLK	Standard Footrest Hanger Assembly Std Footrest Hanger Assy RH (Includes Items 1,2,3,4,5,6,9 & 10)
	9000/33BLK	Std Footrest Hanger Assy LH (Includes Items 1,2,3,4,5,6,9 & 10)
1	9000/32BLK	Latch Plate Assembly Black
8	9000/42BR	8 1/2" Footplate Assembly RH
	9000/46BR	8 1/2" Footplate Assembly LH
	8100/23BR	7 1/2" Footplate Assembly RH
	8100/25BR	7 1/2" Footplate Assembly LH
	9506/13	6" Footplate Assembly RH
7	9506/15	6" Footplate Assembly LH
	8300/21	Heel Loop Assembly
NI	TSD11087BLK	Elevating Legrest Assy RH
NI	TSD11350BLK	Elevating Legrest Assy LH
	TSD10241	Calf Pad Black



**Figure 3.6 (b) Swing/Detachable Footrest Assembly**

## Swing/Detachable Footrest Assembly

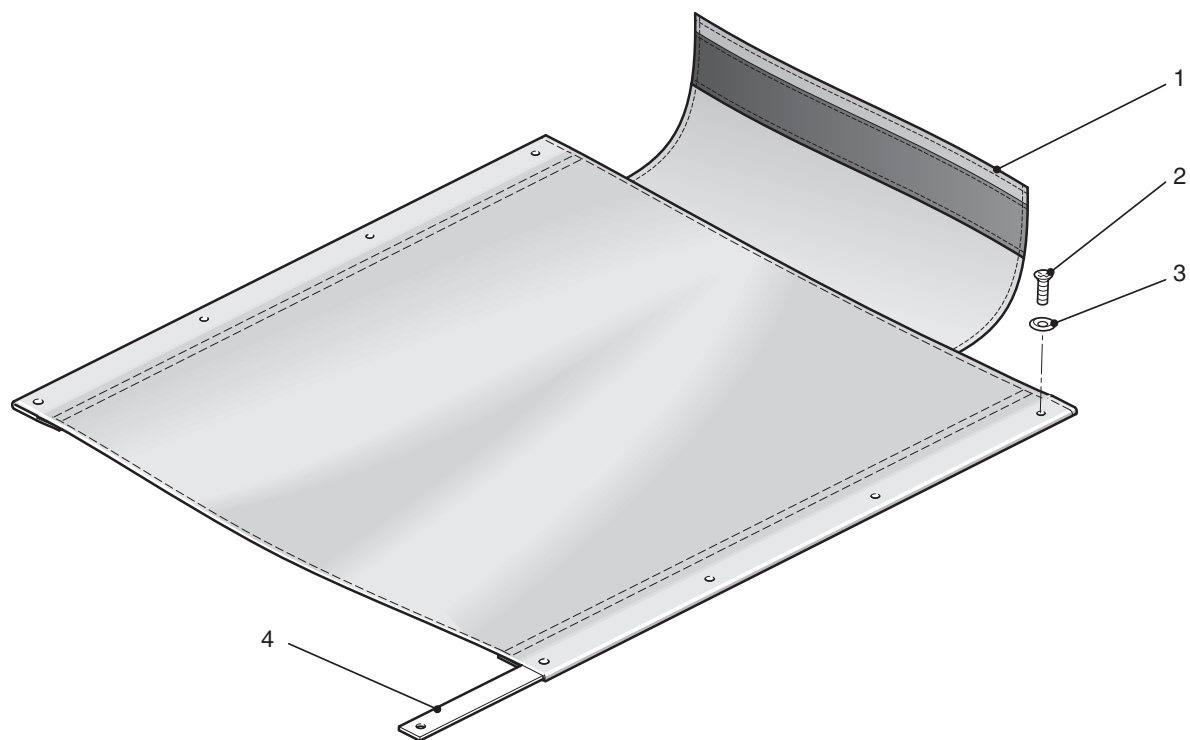
Item	Part Number	Description
15	3017/AQ 3017/AT	Rotational Footrest Hanger Assembly Rotational Footrest Hanger Assy RH (Includes Items 1 to 6) Rotational Footrest Hanger Assy LH (Includes Items 1 to 6)
1	9000/32BLK	Latch Plate Assembly Black
8	3013/73 3015/73 3017/73	Small Plastic Boot Assembly Includes Items 9 & 10 Medium Plastic Boot Assembly Includes Items 9 & 10 Large Plastic Boot Assembly Includes Items 9 & 10
11	3017/78CHR	Straight Tube Assembly (Includes Items 9 & 10)
16	3017/76CHR 3017/83CHR	Footplate Adj Tube Assy RH (Includes Items 7,9,10,12,13&14) Footplate Adj Tube Assy LH (Includes Items 7,9,10,12,13&14)
NI	3017/AQ/EX 3017/AT/EX	Ext 4" Rotational Footrest Hanger Assembly RH Ext 4" Rotational Footrest Hanger Assembly LH



**Figure 3.8 Seat and Chassis Assembly**

## Seat Assembly

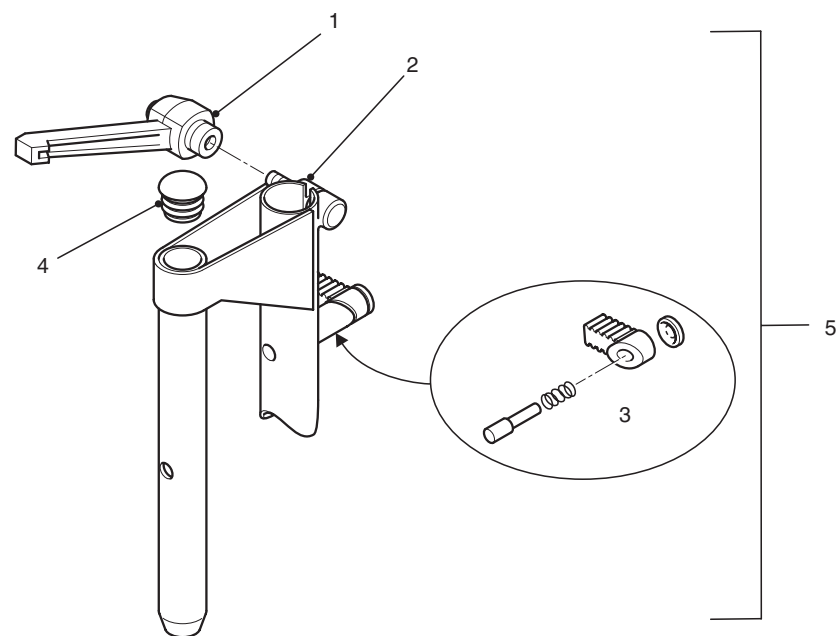
Item	Part Number	Description
1		Seat Canvas
	1415248	Seat Canvas 330 x 381 (13" x 15")
	1415249	Seat Canvas 330 x 406 (13" x 16")
	1415250	Seat Canvas 330 x 432 (13" x 17")
	1415251	Seat Canvas 330 x 457 (13" x 18")
	1415252	Seat Canvas 330 x 483 (13" x 19")
	1415253	Seat Canvas 330 x 508 (13" x 20")
	1415254	Seat Canvas 381 x 381 (15" x 15")
	1415255	Seat Canvas 381 x 406 (15" x 16")
	1415256	Seat Canvas 381 x 432 (15" x 17")
	1415257	Seat Canvas 381 x 457 (15" x 18")
	1415258	Seat Canvas 381 x 483 (15" x 19")
	1415259	Seat Canvas 381 x 508 (15" x 20")
	1415260	Seat Canvas 406 x 381 (16" x 15")
	1415261	Seat Canvas 406 x 406 (16" x 16")
	1415262	Seat Canvas 406 x 432 (16" x 17")
	1415263	Seat Canvas 406 x 457 (16" x 18")
	1415264	Seat Canvas 406 x 483 (16" x 19")
	1415265	Seat Canvas 406 x 508 (16" x 20")
	1415266	Seat Canvas 432 x 381 (17" x 15")
	1415267	Seat Canvas 432 x 406 (17" x 16")
	1415268	Seat Canvas 432 x 432 (17" x 17")
	1415269	Seat Canvas 432 x 457 (17" x 18")
	1415270	Seat Canvas 432 x 483 (17" x 19")
	1415271	Seat Canvas 432 x 508 (17" x 20")
	1415272	Seat Canvas 457 x 381 (18" x 15")
	1415273	Seat Canvas 457 x 406 (18" x 16")
	1415274	Seat Canvas 457 x 432 (18" x 17")
	1415275	Seat Canvas 457 x 457 (18" x 18")
	1415276	Seat Canvas 457 x 483 (18" x 19")
	1415277	Seat Canvas 457 x 508 (18" x 20")
	1415278	Seat Canvas 483 x 381 (19" x 15")
	1415279	Seat Canvas 483 x 406 (19" x 16")
	1415280	Seat Canvas 483 x 432 (19" x 17")
	1415281	Seat Canvas 483 x 457 (19" x 18")
	1415282	Seat Canvas 483 x 483 (19" x 19")
	1415283	Seat Canvas 483 x 508 (19" x 20")



**Figure 3.8 Seat and Chassis Assembly**

**Seat Assembly**

Item	Part Number	Description
4	3015/41/01	381mm (15") Reinforcing Bar
	3016/41/01	406mm (16") Reinforcing Bar
	3017/41/01	432mm (17") Reinforcing Bar
	3018/41/01	457mm (18") Reinforcing Bar
	3019/41/01	483mm (19") Reinforcing Bar
	3020/41/01	508mm (20") Reinforcing Bar
2	D20101	M5 x 20 Taptite Screw
3	5009551	Upholstery Plastic Washer



**Figure 3.10.1 Optional Extras - Set Back Adaptors**



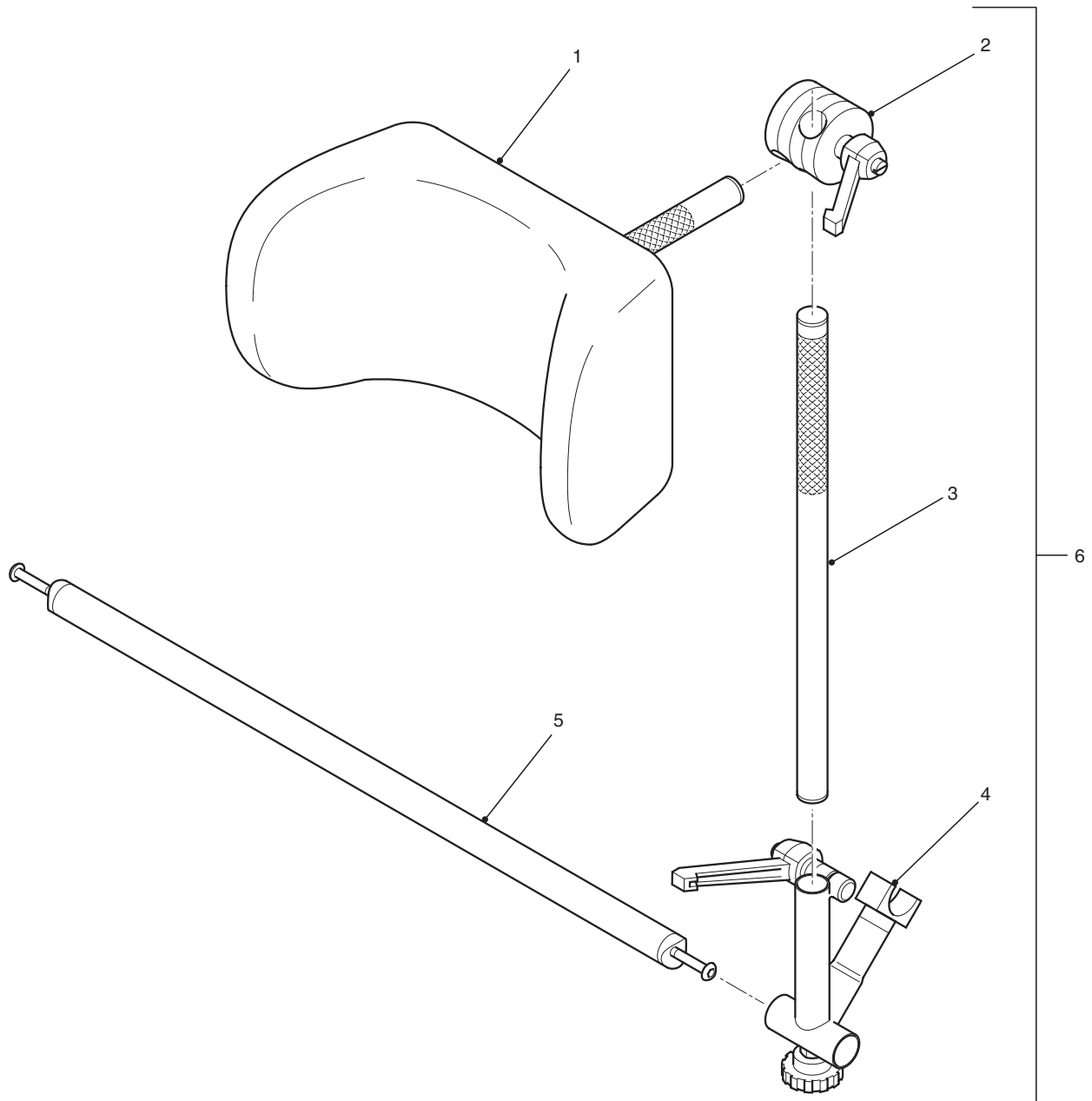
## Optional Extras - Set Back Adaptors

Item	Part Number	Description
		Optional Extras
5	3017/BA	Backrest Set Back Adaptor RH Includes Items 1,2,3 & 4
	3017/BE	Backrest Set Back Adaptor LH Includes Items 1,2,3 & 4
NI	1422212	Arm Set Back Adaptor Assy RH
	1422213	Arm Set Back Adaptor Assy LH
3	ARMLOCKKIT	Armrest Lock Kit Assembly
NI	3017/AD	7 1/2" Stabiliser
NI	3917/BA	Backrest Set Back Adaptor RH (Used on 21" Seat To Ground)
	3917/BE	Backrest Set Back Adaptor LH (Used on 21" Seat To Ground)
NI	1WLS 1002	Lap Belt
NI	6003008	Adjusto Tray Complete
NI	6002949	Tray Support Bracket



## Optional Extras - 17" Seat To Ground Seat Canvas

Item	Part Number	Description
NI	1422214	Seat Canvas 330 x 381 (13" x 15") 17" S.T.G.
	1422215	Seat Canvas 330 x 406 (13" x 16") 17" S.T.G.
	1422216	Seat Canvas 330 x 432 (13" x 17") 17" S.T.G.
	1422217	Seat Canvas 330 x 457 (13" x 18") 17" S.T.G.
	1422218	Seat Canvas 330 x 483 (13" x 19") 17" S.T.G.
	1422220	Seat Canvas 330 x 508 (13" x 20") 17" S.T.G.
	1422221	Seat Canvas 381 x 381 (15" x 15") 17" S.T.G.
	1422222	Seat Canvas 381 x 406 (15" x 16") 17" S.T.G.
	1422223	Seat Canvas 381 x 432 (15" x 17") 17" S.T.G.
	1422224	Seat Canvas 381 x 457 (15" x 18") 17" S.T.G.
	1422225	Seat Canvas 381 x 483 (15" x 19") 17" S.T.G.
	1422226	Seat Canvas 381 x 508 (15" x 20") 17" S.T.G.
	1422227	Seat Canvas 406 x 381 (16" x 15") 17" S.T.G.
	1422228	Seat Canvas 406 x 406 (16" x 16") 17" S.T.G.
	1422229	Seat Canvas 406 x 432 (16" x 17") 17" S.T.G.
	1422230	Seat Canvas 406 x 457 (16" x 18") 17" S.T.G.
	1422231	Seat Canvas 406 x 483 (16" x 19") 17" S.T.G.
	1422232	Seat Canvas 406 x 508 (16" x 20") 17" S.T.G.
	1422233	Seat Canvas 432 x 381 (17" x 15") 17" S.T.G.
	1422234	Seat Canvas 432 x 406 (17" x 16") 17" S.T.G.
	1422235	Seat Canvas 432 x 432 (17" x 17") 17" S.T.G.
	1422236	Seat Canvas 432 x 457 (17" x 18") 17" S.T.G.
	1422237	Seat Canvas 432 x 483 (17" x 19") 17" S.T.G.
	1422238	Seat Canvas 432 x 508 (17" x 20") 17" S.T.G.
	1422239	Seat Canvas 457 x 381 (18" x 15") 17" S.T.G.
	1422240	Seat Canvas 457 x 406 (18" x 16") 17" S.T.G.
	1422241	Seat Canvas 457 x 432 (18" x 17") 17" S.T.G.
	1422242	Seat Canvas 457 x 457 (18" x 18") 17" S.T.G.
	1422243	Seat Canvas 457 x 483 (18" x 19") 17" S.T.G.
	1422244	Seat Canvas 457 x 508 (18" x 20") 17" S.T.G.
	1422245	Seat Canvas 483 x 381 (19" x 15") 17" S.T.G.
	1422246	Seat Canvas 483 x 406 (19" x 16") 17" S.T.G.
	1422247	Seat Canvas 483 x 432 (19" x 17") 17" S.T.G.
	1422248	Seat Canvas 483 x 457 (19" x 18") 17" S.T.G.
	1422249	Seat Canvas 483 x 483 (19" x 19") 17" S.T.G.
	1422250	Seat Canvas 483 x 508 (19" x 20") 17" S.T.G.
NI	1422251	17" S.T.G. Swinging Brkt Assy RH
	1422252	17" S.T.G. Swinging Brkt Assy LH



**Figure 3.10.2 Optional Extras - Headrest**

## Optional Extras - Headrest

Item	Part Number	Description
6	3013/91	Headrest Kit 13" Wide (15" High)
	3015/91	Headrest Kit 15" Wide (15" High)
	3016/91	Headrest Kit 16" Wide (15" High)
	3017/91	Headrest Kit 17" Wide (15" High)
	3018/91	Headrest Kit 18" Wide (15" High)
	3019/91	Headrest Kit 19" Wide (15" High)
1	5050/26	Headrest Pad Assy
2	5050/39	Adjustment Clamp Assy
3	5050/31/01-12 CHR	Headrest Vertical Adj Tube Assy 12" Long
	5050/31/01-15 CHR	Headrest Vertical Adj Tube Assy 15" Long
4	3017/92	Headrest Brace Brkt Assy
5	3013/95	Headrest Lateral Adj Tube Assy 13" Wide
	3015/95	Headrest Lateral Adj Tube Assy 15" Wide
	3016/95	Headrest Lateral Adj Tube Assy 16" Wide
	3017/95	Headrest Lateral Adj Tube Assy 17" Wide
	3018/95	Headrest Lateral Adj Tube Assy 18" Wide
	3019/95	Headrest Lateral Adj Tube Assy 19" Wide

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