EN

PLANMECA
Chair

user's manual

10027421_6

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The manufacturer, assembler and importer are responsible for the safety, reliability and performance of the unit only if:

- installation, calibration, modification and repairs are carried out by qualified authorized personnel
- electrical installations are carried out according to the appropriate requirements such as IEC 60364
- equipment is used according to the operating instructions.

Planmeca pursues a policy of continual product development. Although every effort is made to produce up-to-date product documentation this publication should not be regarded as an infallible guide to current specifications. We reserve the right to make changes without prior notice.

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1 INTRODUCTION

Planmeca Chair is a patient chair that can easily be adjusted to various positions, thus appropriately supporting the patient during the dental treatment. Planmeca Chair is meant to be used by dental care professionals.

This manual describes how to install and use Planmeca Chair. Please read this manual carefully before using the patient chair.

CE

Planmeca Chair fulfils the requirements of Directive 93/42/EEC.

NOTE

This manual is valid for software revision 2.0.3 or later.

NOTE

The installation of Planmeca Chair is described in section 12 "DISPOSAL OF CHAIR" on page 27.

2 ASSOCIATED DOCUMENTATION

Planmeca Chair comes with the following manuals:

- User's and installation manual

  For dental care professionals and service personnel. Instructs the service personnel how to install the patient chair. Describes the chair, its different parts as well as explains to the user how the operate and clean the patient chair.
- Technical manual

  For service personnel. Gives instructions for service situations.

For a full list of accessories, refer to the Planmeca product price list.

3 TRAINING

A hands-on user's training is given in connection with the installation of Planmeca Chair.

4 SYMBOLS ON PRODUCT LABELS

Type B equipment (Standard IEC 60878).

Alternating current (Standard IEC 60878).

Attention, consult accompanying documents (Standard ISO 7010).

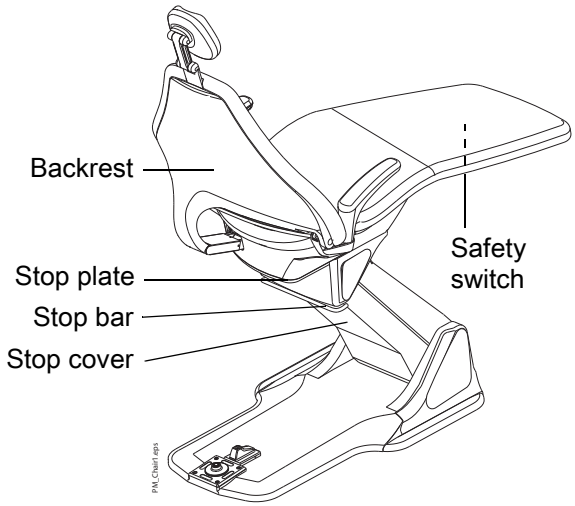
General warning (Standard ISO 7010)

Separate collection for electrical and electronic equipment according to Directive 2002/96/EC (WEEE).

Date of manufacture (Standard IEC 60878).

Protective earth (Standard IEC 60878).

5 FOR YOUR SAFETY



When driving the chair from one position to another care should be taken. In case of emergency the chair will stop when the backrest, the stop plate underneath the seat, or the stop bar or stop cover on the underside of the lifting mechanism is pressed upwards. The chair will also stop when the safety switch on the underside of the legrest is activated. The chair can be driven normally after the possible obstruction has been removed.

NOTE

Because of the chair swivel feature the stop plate located on the underside of the seat does not cover the whole surface.

CAUTION

Electromagnetic interference between the equipment and other devices can occur in very extreme conditions. Do not use the equipment in close conjunction with sensitive devices, or devices creating high electromagnetic disturbances.

CAUTION

Switch off the unit before using an electrosurgical knife.

CAUTION

Do not use the equipment in close conjunction with anaesthetic gas or in highly oxygenated environments (oxygen content >25%).

WARNING

No modification of this patient chair is allowed.

WARNING

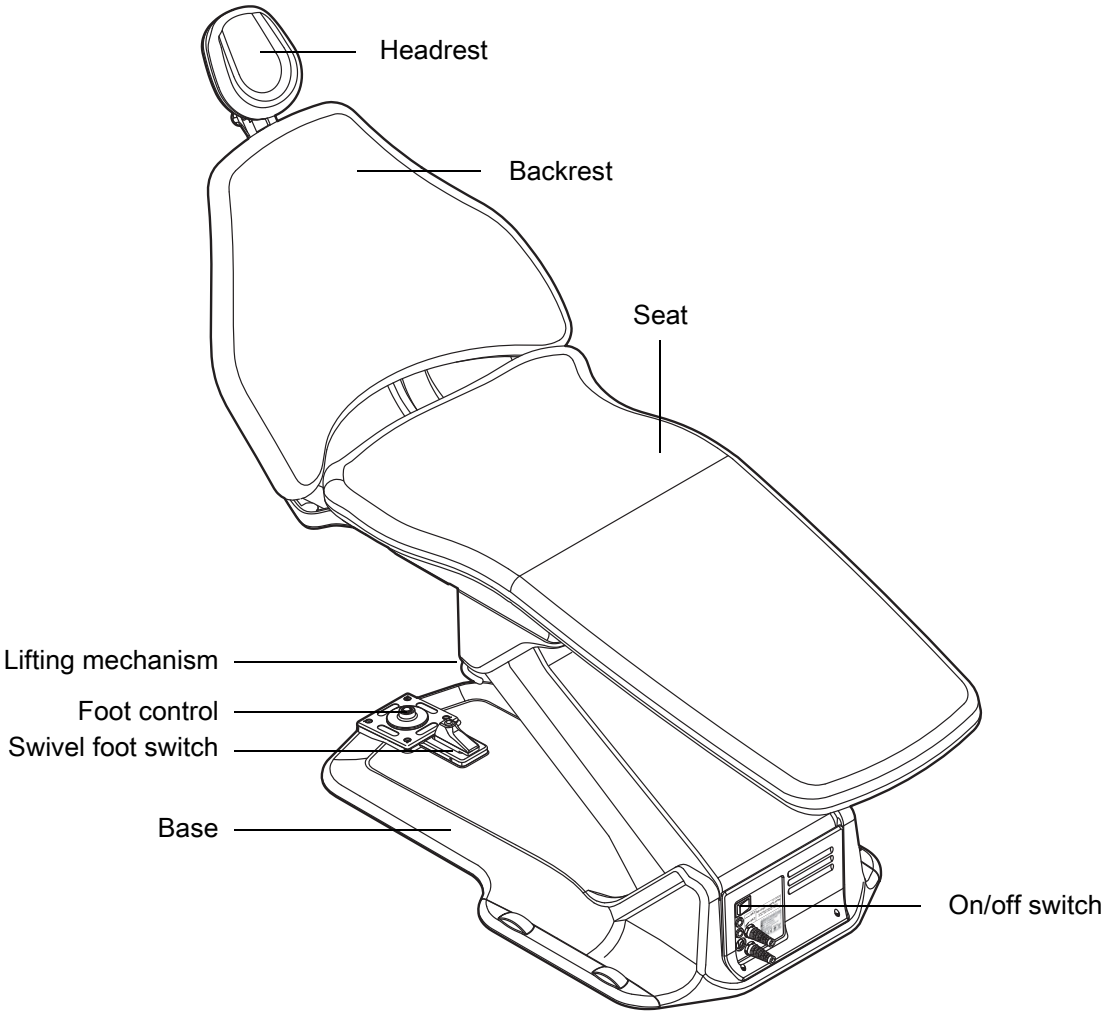
To avoid risk of electric shock, Planmeca Chair must only be connected to a supply mains with protective earth.
Canada only:
External fuse: max 20A branch circuit fuse.

WARNING

Do not perform maintenance procedures or replace patient chair parts while treating a patient.

6 PLANMECA CHAIR

6.1 Main parts



CAUTION

Do not sit on the legrest.

NOTE

The optional features of the chair are described in section 9 "OPTIONAL FEATURES" on page 16.

6.2 Applied parts

The following parts of Planmeca Chair will in normal treatment situations come in contact with the patient:

- upholstery
- armrests
- headrest
- operating light post
- OP-tray

7 USING CHAIR

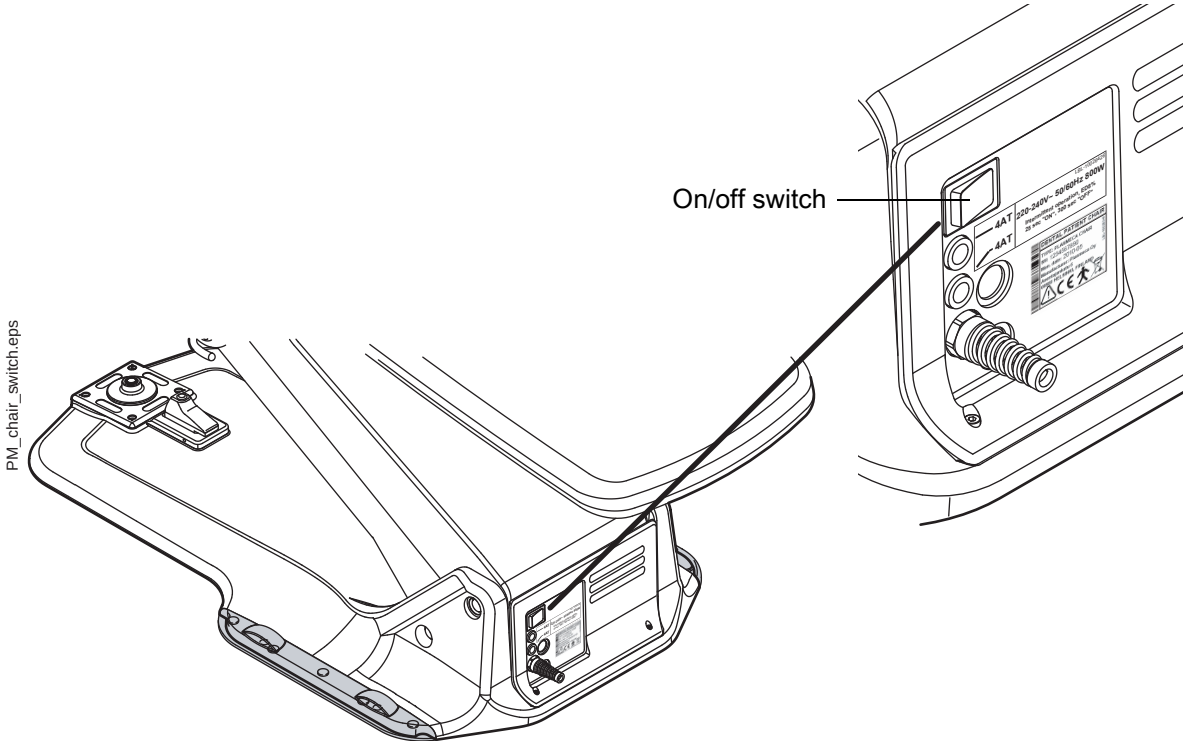
The chair can be operated manually or automatically. When the chair is used manually the foot control must be pushed and held to drive the chair to the position required.

In automatic use the foot control only needs to be pushed once and the chair will move automatically to the preprogrammed chair position. Before the chair can be used in the automatic mode, check the preprogrammed automatic positions.

7.1 Switching chair on

The on/off switch is located on the base of the chair below the legrest. When the chair is switched on it will give a signal tone. The chair is now ready for use.

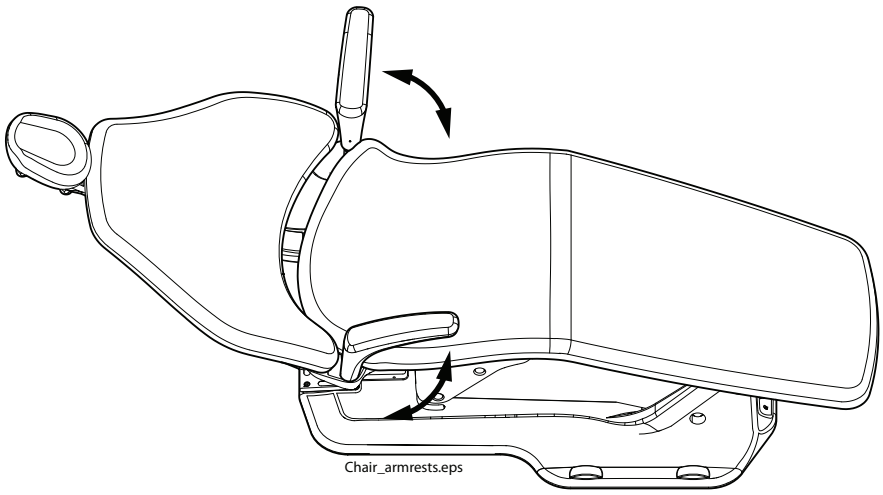
The same switch is used to switch the chair off.



PM_chair_switch.eps

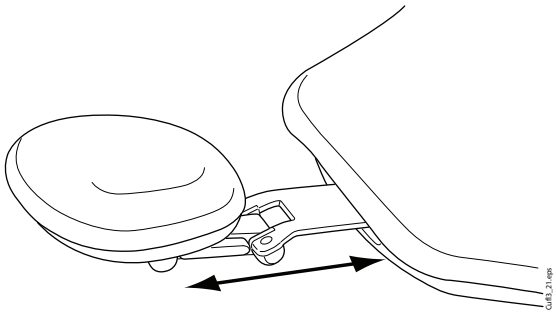
7.2 Moving armrests

The armrests can be moved 90° outwards. Before you move the armrest you must lift it slightly to unlock it. Both armrests can be locked into the positions presented below.



7.3 Adjusting chair headrest

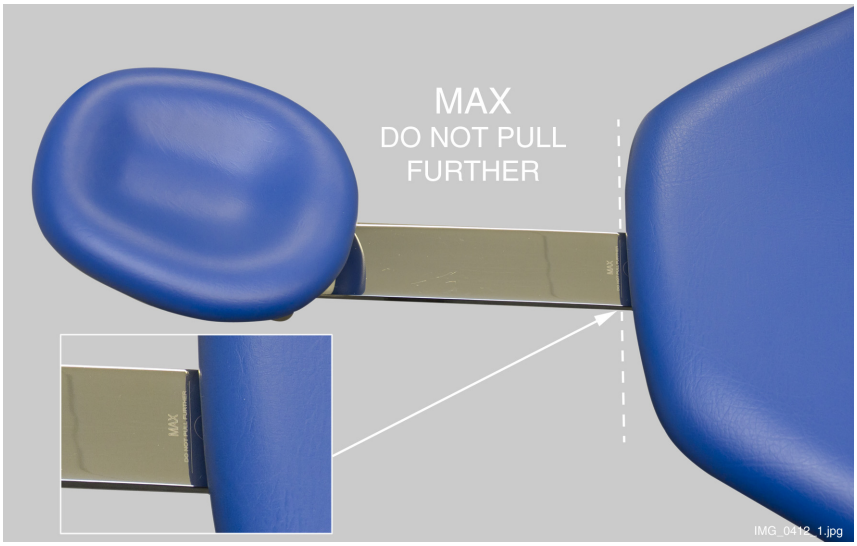
7.3.1 Adjusting height of headrest



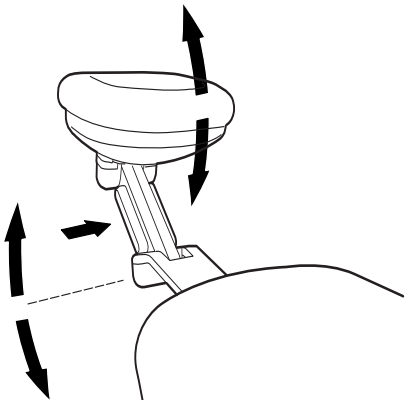
The height of the headrest can be adjusted by sliding it manually.

NOTE

The headrest can only be pulled out as far as to the MAX mark.

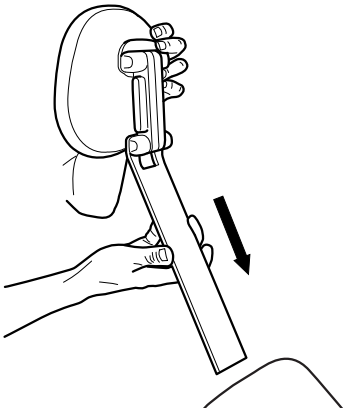


7.3.2 Adjusting headrest angle



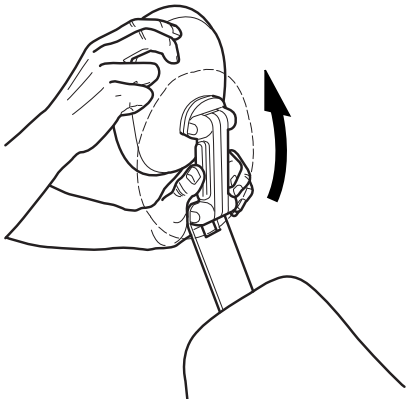
To adjust the angle of the headrest press the bar on the side of the headrest support to release the locking mechanism. Manually set the headrest to the angle required and then release the bar. When adjusting, the headrest should be supported by hand.

7.3.3 Adjusting headrest for children or short patients

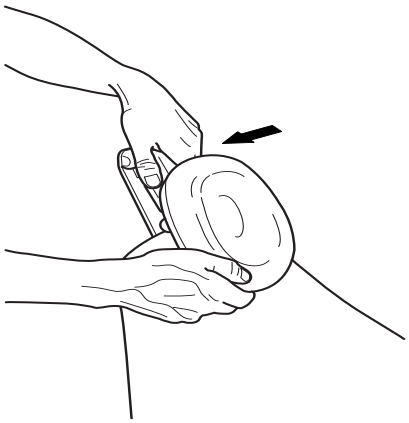


The headrest can be turned around and repositioned for better head support for children or short patients.

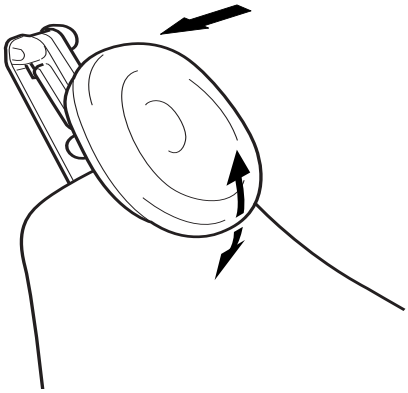
Pull the headrest out. Turn it around so that the cushion faces backwards and push the headrest back into the chair.



Turn the cushion around (180° counterclockwise).

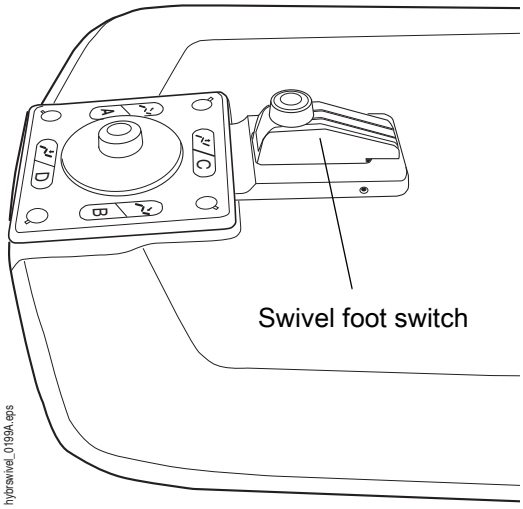


Press the bar on the side of the headrest support to release the locking mechanism and position the headrest at the top of the chair.



The headrest is now repositioned. To adjust the angle of the headrest press the locking bar. Manually set the headrest into the required position and then release the bar. When adjusting, support the headrest with your other hand.

7.4 Chair swivel



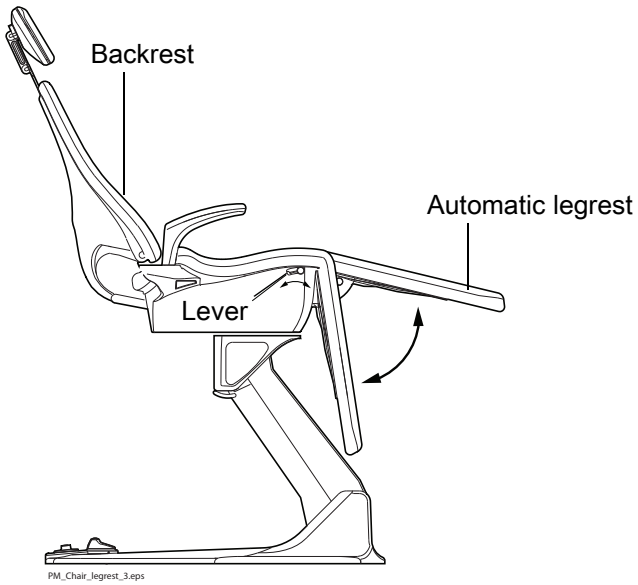
If required, the chair can be swivelled 90° to the right or left. Release the locking mechanism by pressing the foot switch located on the chair base. The chair can now be manually swivelled up to 90° in either direction. Release the knob and rotate the seat until it locks to the nearest locking position (increment is 5°).

NOTE

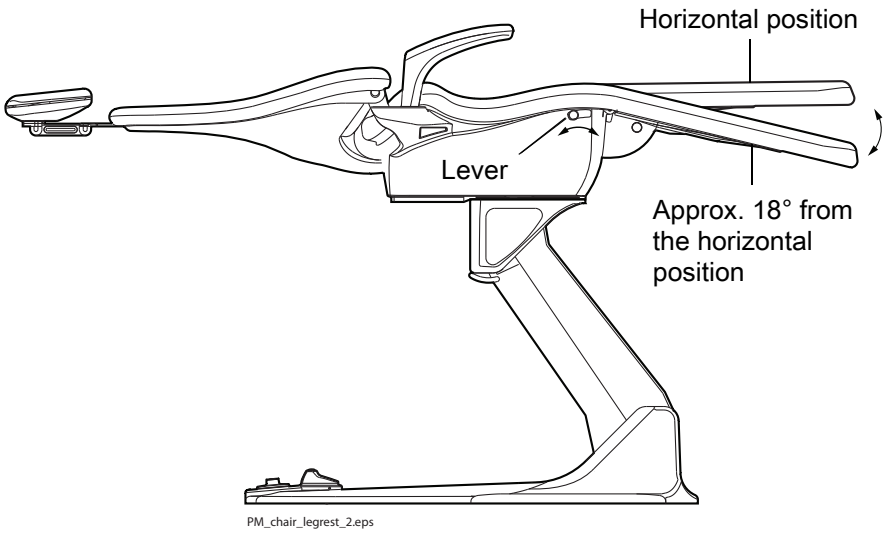
Optionally the chair can be locked to its position in the installation phase. This disables the swivel movement.

7.5 Automatic legrest

The automatic legrest can be moved synchronously to the movements of the backrest, that is, when you drive the backrest down, the automatic legrest is driven up. Use the chair movement buttons to drive the patient chair. Notice that the lever underneath the legrest has to be unlocked (moved to the right) in order to move the legrest with the backrest.



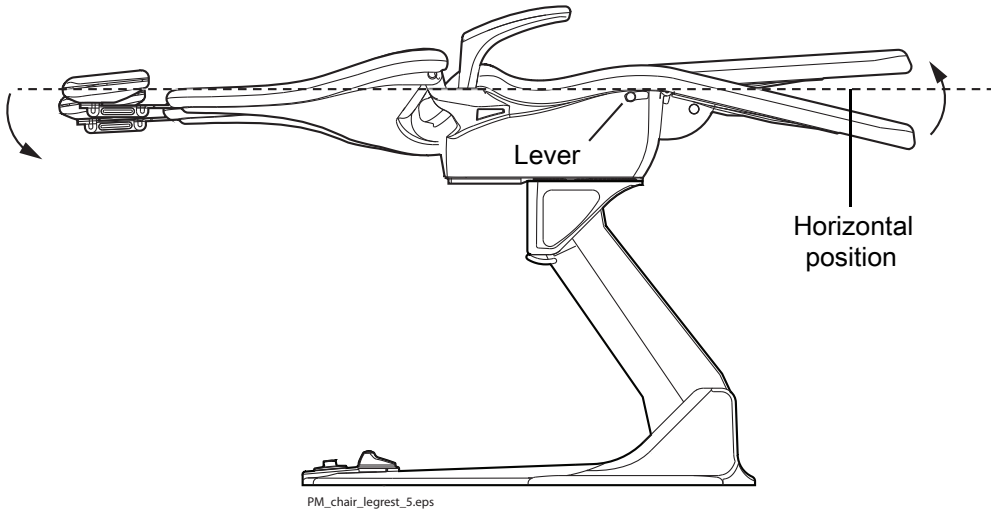
The automatic legrest can be locked approximately 18° from the horizontal position. To lock the legrest the lever has to be locked to the left. Support the legrest with your other hand when locking or unlocking the lever. Notice that the backrest will move upward and downward when the legrest is locked.



7.6 Trendelenburg position

If required, the patient chair can be inclined from the horizontal position to the Trendelenburg position. In the Trendelenburg position the legrest is in the horizontal position and the backrest is driven -4° from the horizontal position.

To drive the patient chair to the Trendelenburg position, first drive the chair to the horizontal position by pushing and **holding** the foot control to the left. After the backrest movement has stopped, release the foot control and then push the foot control again to the left.



7.7 Driving chair to required position

NOTE

If the Planmeca Compact i Touch v2 dental unit without a chair is connected to Planmeca chair, all chair movements are disabled when driving an instrument from the dental unit.

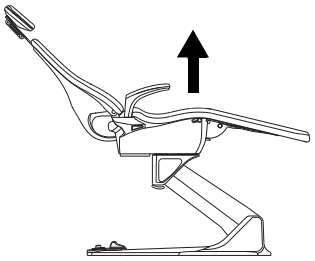
7.7.1 Manual operation

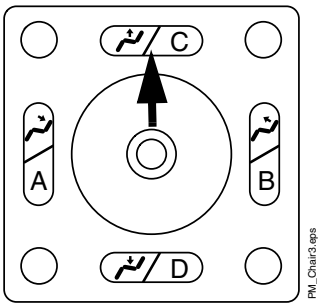
To adjust the position of the chair, push and **hold** the foot control in the direction indicated on the foot control to drive the chair in the direction required. When the chair reaches the desired position, release the foot control. The foot control will only operate one movement at a time.

NOTE

The chair movement stops immediately when you release the foot control. If the stop is delayed, contact your Planmeca dealer.

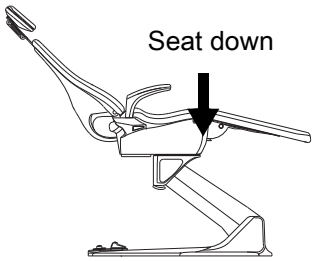
Seat up

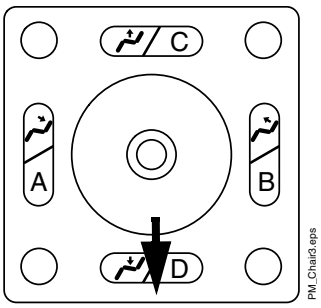




Push the foot control towards the chair to drive the seat up.

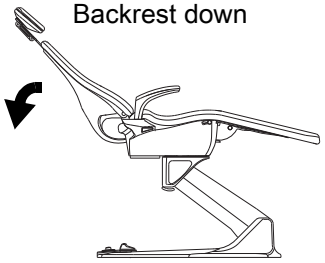
Seat down

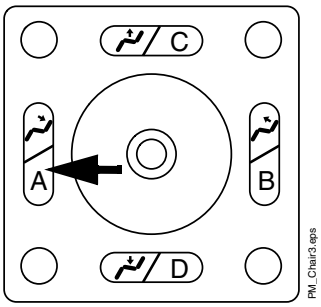




Push the foot control away from the chair to drive the seat down.

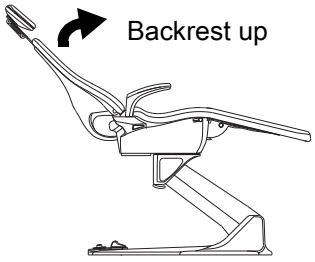
Backrest down

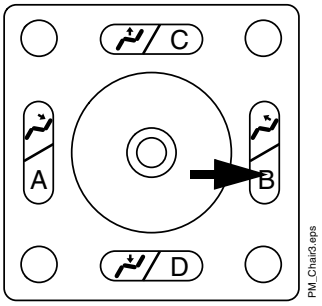




Push the foot control to the left to drive the backrest down.

Backrest up





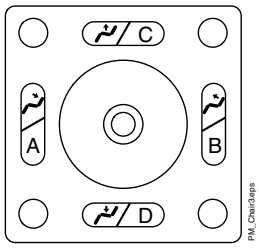
Push the foot control to the right to drive the backrest up.

7.7.2 Automatic operation

The chair incorporates a memory in which you can store the chair positions that you want the chair to move to in the automatic mode. There are four chair positions available: the rinsing position (C) and three working positions (A, B, D). The positions have been preprogrammed at the factory, and can be changed by the user. See section 8 "PROGRAMMING CHAIR POSITIONS" on page 15.

NOTE

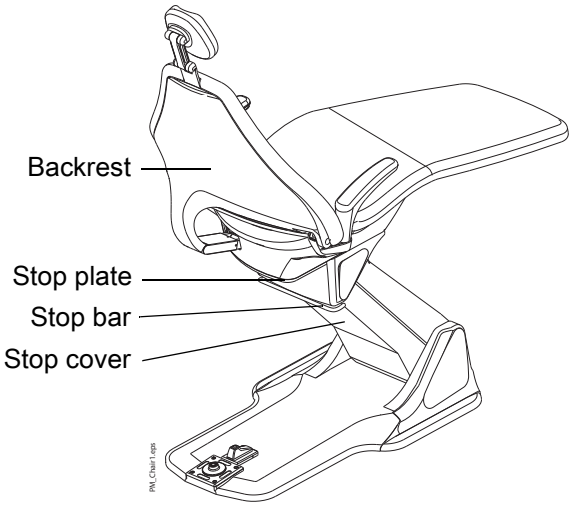
It is possible to disable the automatic movement to the preprogrammed positions by connecting a jumper to the Power supply PCB. Contact your Planmeca dealer, if needed.



Push the foot control **briefly** to the position (A, B, C, or D) where the preprogrammed chair position is stored. The chair will move automatically to the preprogrammed position.

NOTE

Position C is the rinsing position. Push the foot control briefly to position C and the chair will move to the preprogrammed rinsing position. The chair remembers its previous working position; push the foot control again briefly to position C to return back to this previous position.



To stop the chair from moving before it reaches the preprogrammed position, push the foot control in any direction or press the backrest, the stop plate, or the stop bar, or, press the stop cover on the underside of the lifting mechanism upwards.

If you stop the chair by lifting the backrest, the stop plate, stop bar or stop cover before it reaches its preprogrammed position, you will hear a signal tone. You will also hear a signal tone every two seconds when the stop switch is active. To operate the chair again, use the foot control.

If you wish to adjust the position of the chair when it has reached its preprogrammed position, simply use the foot control in manual mode to drive the chair to the desired position.

8 PROGRAMMING CHAIR POSITIONS

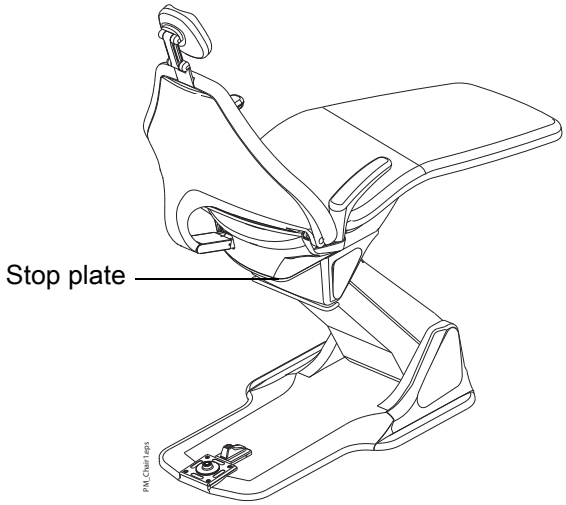
The chair incorporates a memory in which you can store the chair positions that you want the chair to move to in the automatic mode. There are four chair positions available: the rinsing position (C) and three working positions (A, B, D). The positions have been preprogrammed at the factory, and can be changed by the user as follows.

NOTE

In case your chair is equipped with an optional remote control panel, you can also program the chair positions using the control panel keys, see section 9.3.3 "Programming chair positions" on page 19.

NOTE

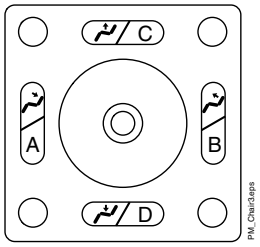
If the Planmeca Compact i Touch v2 dental unit without a chair is connected to Planmeca chair, the chair positions can also be programmed from the dental unit. When the chair positions are saved to the chair, a signal is heard.



1. With the foot control, set the height of the chair and the inclination of the backrest to the positions you require.

2. Lift the stop plate briefly twice to enter the programming mode.

   When the programming mode is active you will hear a long signal tone every two seconds.



3. Push and hold the foot control in the direction of the position (A, B, C, or D) where you wish to store the chair position. You will hear the same signal tone that you hear when the chair is switched on, which indicates that the chair position has been programmed into the memory.

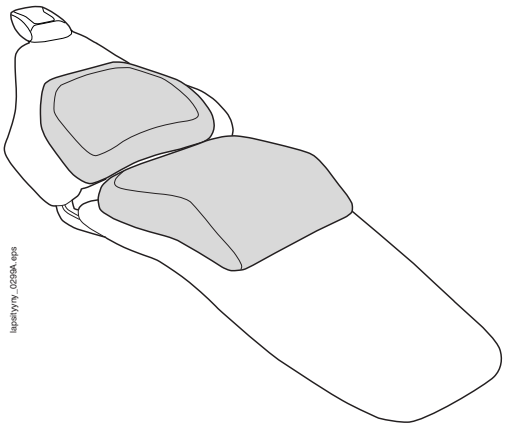
If you want to exit the programming mode without changing the chair position, lift the stop plate briefly.

NOTE

If you interrupt programming for over 25 seconds, the chair automatically exits the programming mode without storing the new position.

9 OPTIONAL FEATURES

9.1 Child cushion set



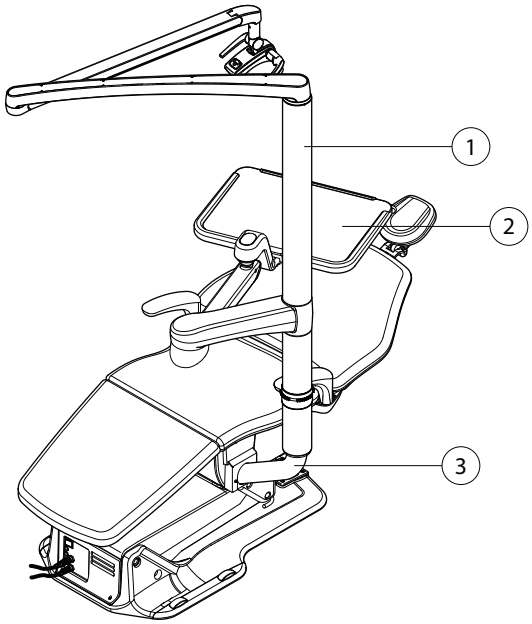
Position the child cushion set onto the chair as shown in the figure.

Support the backrest cushion with your hand and guide the patient onto the chair.

NOTE

Lift the backrest cushion upwards if it descends when the backrest is in vertical position.

9.2 Operating light post and OP-tray



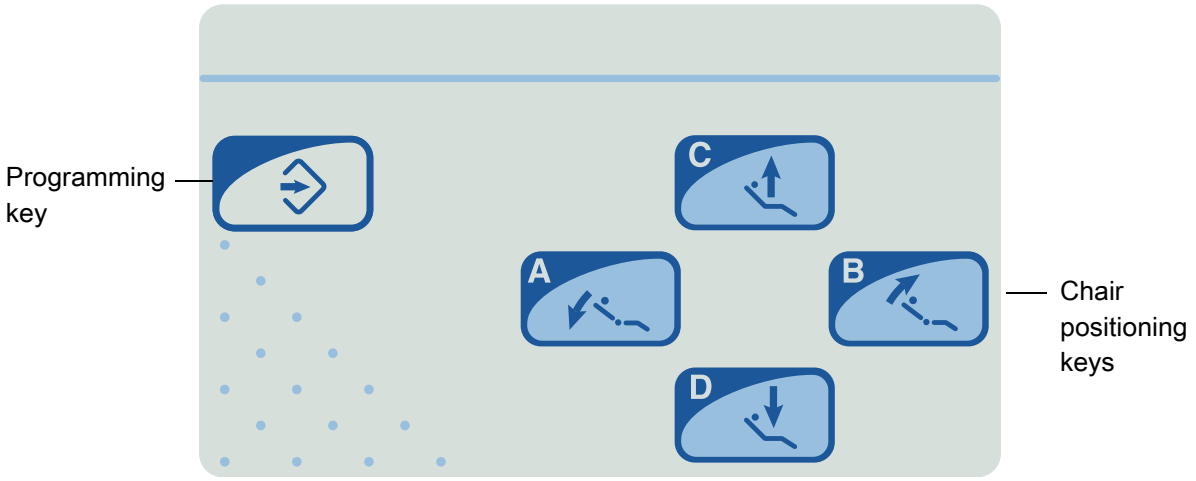
The Planmeca SingLED operating light or an OP-tray can optionally be attached to Planmeca Chair. Their installation requires that an adapter be installed between the patient chair and the operating light post.

1. Operating light post
2. OP-tray
3. Adapter

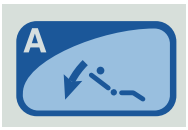
CAUTION

When driving down the chair, make sure that nothing gets squeezed between the adapter and the floor.

9.3 Remote control panel

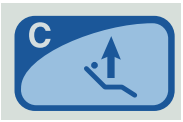


9.3.1 Manual operation



Press and **hold** the A key to drive the backrest down. When it reaches the desired position, release the key.

Press and **hold** the B key to drive the backrest up. When it reaches the desired position, release the key.



Press and **hold** the C key to drive the chair up. When it reaches the desired position, release the key.

Press and **hold** the D key to drive the chair down. When it reaches the desired position, release the key.

NOTE

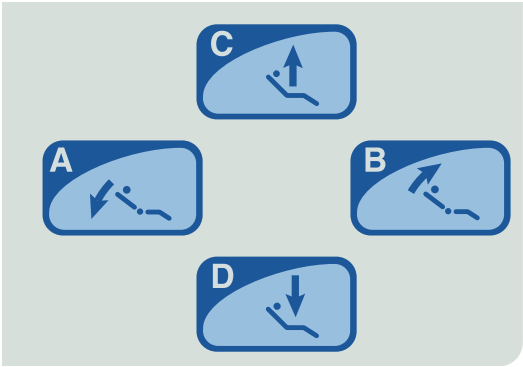
The chair can also be driven using the foot control, see section 7.7.1 "Manual operation" on page 12.

9.3.2 Automatic operation

The chair incorporates a memory in which you can store the chair positions that you want the chair to move to in the automatic mode. There are four chair positions available: the rinsing position (C) and three working positions (A, B, D). The positions have been preprogrammed at the factory, and can be changed by the user. See section 9.3.3 "Programming chair positions" on page 19 or 8 "PROGRAMMING CHAIR POSITIONS" on page 15.

NOTE

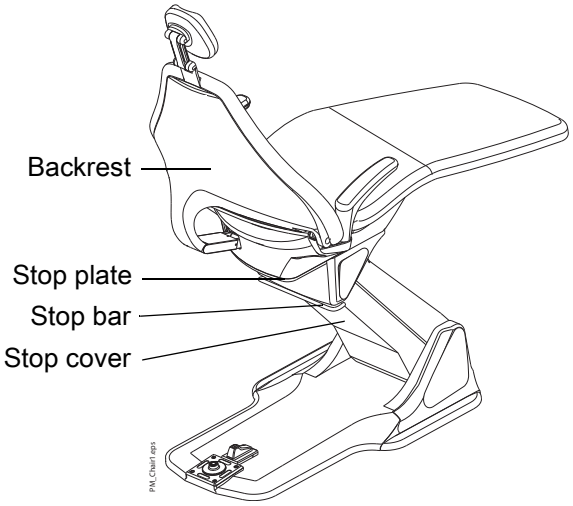
It is possible to disable the automatic movement to the preprogrammed positions by connecting a jumper to the Power supply PCB. Contact your Planmeca dealer, if needed.



Press briefly the required chair position key. The chair will move automatically to the preprogrammed position.

NOTE

Position C is the rinsing position. Press the C key briefly and the chair will move to the preprogrammed rinsing position. The chair remembers its previous working position; press the C key briefly again to return back to this previous position.



To stop the chair from moving before it reaches the preprogrammed position, push the foot control in any direction or press any of the chair positioning keys. You can also press the backrest, the stop plate, or the stop bar, or, press the stop cover on the underside of the lifting mechanism upwards.

If you stop the chair by lifting the backrest, the stop plate, stop bar or stop cover before it reaches its preprogrammed position, you will hear a signal tone. You will also hear a signal tone every two seconds when the stop switch is active. To operate the chair again use the foot control or the control panel keys.

If you wish to adjust the position of the chair when it has reached its preprogrammed position, simply use the foot control or the control panel in manual mode to drive the chair to the desired position.

NOTE

The chair can be driven to the automatic positions also using the foot control, see section 7.7.2 "Automatic operation" on page 14.

9.3.3 Programming chair positions

The chair incorporates a memory in which you can store the chair positions that you want the chair to move to in the automatic mode. There are four chair positions available: the rinsing position (C) and three working positions (A, B, D). The positions have been preprogrammed at the factory, and can be changed by the user as follows.

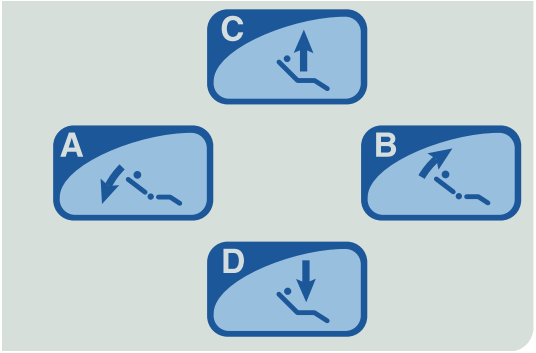
NOTE

The chair positions can also be programmed using the foot control, see section 8 "PROGRAMMING CHAIR POSITIONS" on page 15.

1. Move the chair to the desired position using the foot control or the chair keys on the remote control panel.

2. Press the programming key to enter the programming mode.

   When the programming mode is active you will hear a long signal tone every two seconds.



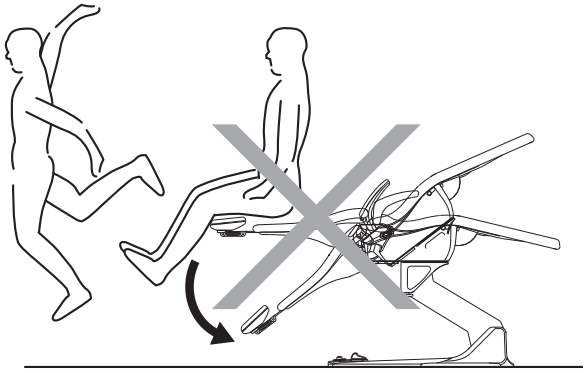
3. Press and hold the desired chair position key where to store the chair position (A, B, C, or D). You will hear the same signal tone that you hear when the chair is switched on, which indicates that the chair position has been programmed into the memory.

If you want to exit the programming mode without changing the chair position, press the programming key briefly.

NOTE

If you interrupt programming for over 25 seconds, the chair automatically exits the programming mode without storing the new position.

9.4 Mobile base



CAUTION

When the mobile base is installed to a chair equipped with swivel, the swivel must be locked.

CAUTION

The chair must be transported on even surfaces only. The chair is not suited for transport over obstructions or on sloping surfaces.

CAUTION

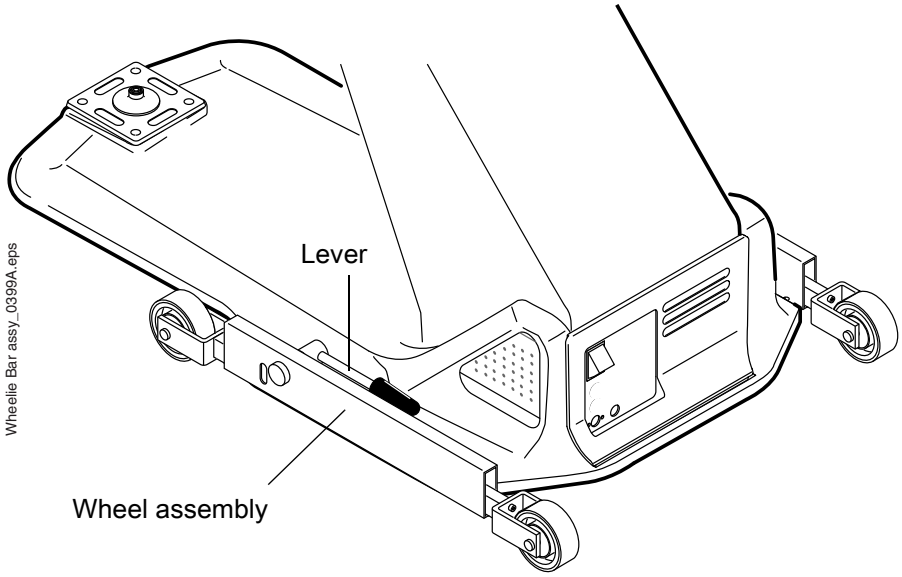
Do not transport the chair when a patient is sitting in it.

CAUTION

Do not sit on the backrest.

The chair is raised and lowered by turning the levers in the wheel assemblies.

Planmeca Chair can be moved when the chair is up. When the chair is down, it is not movable.



10 MAINTENANCE

10.1 Cleaning upholstery

A mild soap and warm water solution can be used to wipe off stains and spills. Let the upholstery air dry.

10.1.1 Disinfecting

The Ultra Relax upholstery stands up to routine disinfections with ethyl alcohol.

For disinfecting the upholstery between each patient we recommend *Dürr FD 333* or a similar product. After the working day we recommend that you disinfect the upholstery with *Dürr FD 312* or a similar product.

Once a week, we recommend that you clean and treat the upholstery with *Dürr FD 360*. Wipe away any excess oil after the treatment.

10.2 Cleaning chair base

The chair base can be cleaned with a soft cloth moistened with a mild cleaning solution. Do not use abrasive cleaning agents.

10.2.1 Disinfecting

For disinfecting, we recommend *Dürr FD 312* or a similar disinfecting solution.

10.3 Replacing fuses

CAUTION

When servicing the unit, always first switch the unit off by removing the plug from the wall outlet and then wait for 2 minutes before touching any electrical parts.

CAUTION

Note that the mains voltage is always present at the mains terminal under the main control PCB cover, even if the unit is switched off from its own mains switch.

The fuses are located on the base of the chair below the on/off switch. Turn the fuse holder counter-clockwise to remove it from the chair. Replace the old fuse with a new one of the same type and rating. Put back the fuse holder and switch the chair on.

11 CHAIR SIGNAL TONES

The different modes of the chair as well as some of the erroneous situations are expressed with signal tones. If the Planmeca Compact i control panel is connected and service mode is entered, the unique error code can be read from the display.

11.1 Error tones

The error tones in group 1 are always enabled, whereas the error tones in groups 2 - 5 are disabled. To enable the error tones in groups 2 - 5, for example for troubleshooting purposes, contact your Planmeca dealer.

11.1.1 Group 1 - Error codes with a single beep every two seconds

At least one of the safety switches has been activated. The chair and backrest can only be driven in the upwards direction. The chair's operation returns to normal automatically after the obstructing items have been removed from under the chair. Should this happen without any visible cause, most probably the emergency switch of the backrest motor needs to be re-adjusted.

Table 1: Error codes with single beep every two seconds

Code	Name	Description
1	ERROR_SAFETY_LOOP_BROKEN	Safety loop is broken.
2	ERROR_PROG_STOP_PLATE_PRESSED_WHEN_ DRIVING	Stop (program) plate was pressed when driving.

11.1.2 Group 2 - Error codes with two beeps every two seconds

If the error tone is continuous (over ten seconds), the voltage signal received from the lift motor position sensor is below (short circuit) or above (open circuit) the programmed limits. Either the lift motor position sensor is out of calibration or the sensor and/or its cable is broken.

If the error tone disappears after ten seconds, the voltage signal received from the lift motor position sensor is within the programmed limits, but it does not change or changes in the wrong direction when the motor is run. Either the lift motor position sensor is not in contact with the motor's worm screw or the processor PCB is broken.

Table 2: Error codes with two beeps every two seconds

Code	Name	Description
3	ERROR_LIFT_POT_MISSING	Lift position sensor is missing.
4	ERROR_LIFT_POT_OUT_OF_CAL	Lift position sensor is out of calibration.
5	ERROR_LIFT_DOES_NOT_MOVE	Lift motor does not move or it moves to wrong direction.

11.1.3 Group 3 - Error codes with three beeps every two seconds

If the error tone is continuous (over ten seconds), the voltage signal received from the backrest motor position sensor is below (short circuit) or above (open circuit) the programmed limits. Either the backrest motor position sensor is out of calibration or the sensor and/or its cable is broken.

If the error tone disappears after ten seconds, the voltage signal received from the backrest motor position sensor is within the programmed limits, but it does not change or changes in the wrong direction when the motor is run. Either the backrest motor position sensor is not in contact with the motor's worm screw or the processor PCB is broken.

Table 3: Error codes with three beeps every two seconds

Code	Name	Description
6	ERROR_BACKREST_POT_MISSING	Backrest position sensor is missing.
7	ERROR_BACKREST_POT_OUT_OF_CAL	Backrest position sensor is out of calibration.
8	ERROR_BACKREST_DOES_NOT_MOVE	Backrest motor does not move or it moves to wrong direction.

11.1.4 Group 4 - Error codes with four beeps every two seconds

The lift or backrest motor runs without a command from the foot control or control panel. The processor PCB is broken.

Table 4: Error codes with four beeps every two seconds

Code	Name	Description
9	ERROR_LIFT_MOVES_WITHOUT_CMD	Lift motor moves without command.
10	ERROR_BACKREST_MOVES_ WITHOUT_CMD	Backrest motor runs without command.

11.1.5 Group 5 - Error codes with five beeps every two seconds

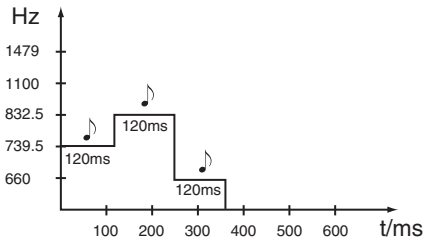
Hardware problem. See table 5.

Table 5: Error codes with five beeps every two seconds

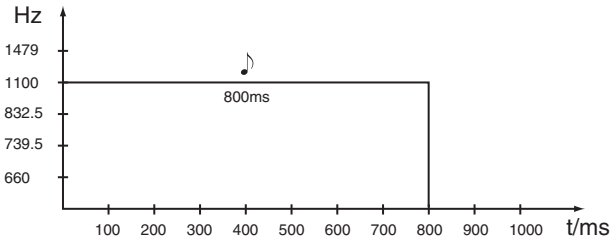
Code	Name	Description
11	ERROR_FLASH_ERROR	Auto position read or write failed. Try power off/on or replace PCB.
12	ERROR_INPUT_VOLTAGE_MEAS_ERROR	Input AC voltage not detected. PCB is powered from DC voltage or it is broken. Fix mains input or replace PCB.
13	ERROR_INPUT_VOLTAGE_LOW	Input AC voltage is below minimum level.
14	ERROR_INPUT_VOLTAGE_HIGH	Input AC voltage is above maximum level.
15	ERROR_INPUT_FREQUENCY_LOW	Input AC frequency is below minimum level.
16	ERROR_INPUT_FREQUENCY_HIGH	Input AC frequency is above maximum level.
17	ERROR_INPUT_PHASE_MISSING	One of the 24 VAC phases is missing. Check connections between transformer and PCB.
18	ERROR_UNSUPPORTED_PCB_VER	PCB version is either too old or new for current software version. Update software or replace PCB.
19	ERROR_STICKY_KEY	Some user interface button is stuck. Check foot controls, additional keyboards and internal wirings.

11.2 Other signal tones

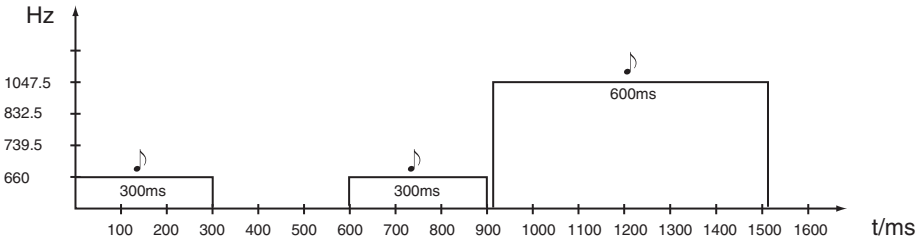
In the following figures a signal tone is shown with a note, and the pitch of sound is expressed in Hz.



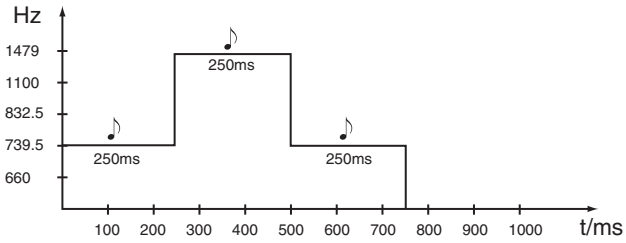
1. The chair is switched on.
2. An automatic chair position has been programmed into the memory.



1. A stop microswitch is activated, that is, the backrest, the stop plate stop bar or stop cover is lifted.
2. The lift/backrest motor position sensor is loose when you are trying to drive the seat/backrest.
3. The lift/backrest motor does not operate as desired. The reason can be either a damaged motor or a fault in the PCB.



The chair is in the programming mode.



The calibration mode is entered.

The calibration is described in the *Planmeca Chair technical manual*.

In the calibration mode of the chair, both the lift and backrest motors can be driven regardless of the voltage signal from their position sensors. Therefore, this mode is convenient for testing whether the cause for a non-operational motor is the motor itself, the processor PCB or the position sensor and/or its cable. If the motor can be run in the calibration mode, the fault site refers to the sensor and/or its cable.

WARNING

In the calibration mode the motors can be driven to their mechanical limits.

12 DISPOSAL OF CHAIR

In order to reduce the environmental load over the product's entire lifecycle, Planmeca products are designed to be as safe as possible to manufacture, use and dispose of.

Parts which can be recycled should always be taken to the appropriate processing centres, after hazardous waste has been removed. Disposal of obsolete units is the responsibility of the waste possessor.

All parts and components containing hazardous materials must be disposed of in accordance with waste legislation and instructions issued by the environmental authorities. The risks involved and the necessary precautions must be taken into account when handling waste products.

Table 6: Disposal of parts and components

Part	Main materials for disposal	Recyclable material	Waste disposal site	Hazardous waste (separate collection)
Frame and covers				
- metal	Aluminium	X		
	Galvanised steel	X		
	Stainless steel	X		
- plastic	PUR		X	
	Other plastics	X		
- rubber			X	
Motor		(X)		
PCBs		(X)		
Cables and transformers	Copper	X		
	Steel	X		
Packing	Wood	X		
	Cardboard,	X		
	Paper	X		
Other parts			X	

13 TECHNICAL SPECIFICATIONS

Construction	Cast alloy (all metal)
Weight	120 kg (290 lbs.)
Backrest angle	25° upright from vertical
	90° lowest from vertical
Swivel	±90°, total 180°
Operation	Electromechanical (2 motors)
Control	Microprocessor
Ambient temperature	Operating +15 °C to +35 °C (59 °F to 95 °F)
	Storage -5 °C to +60 °C (23 °F to 140 °F)
Ambient air pressure	800 hPa to 1060 hPa (12 psi to 15 psi)
Relative humidity	5% RH to 95% RH; non-condensing humidity
Altitude	< 2000 m (less than 1.25 miles)
Power requirements	3A/220-240 VAC 50Hz/60Hz
	6A/100, 115 VAC 50Hz/60Hz
	ED 8% 25 sec. “ON”, 300 sec. “OFF”
Electrical classification	Class I, type B
	Foot control Class IPx1

		220-240 V~	115 V~	100 V~
Plug	Fuse	2 x F 4 A H 250V Bussmann S501-4-R Schurter 0001.1010	2 x F 8 A H 250V Bussmann S501-8-R Schurter 0001-1013	2 x F 8 A H 250V Bussmann S501-8-R Schurter 0001-1013
	Label	LBL-10026426	LBL-10027254	LBL-10027253
Fixed	Fuse	1 x F 4 A H 250V	1 x F 8 A H 250V	1 x F 8 A H 250V
	Label	LBL-10027258	LBL-10027256	LBL-10027255

Maximum lifting capacity, excluding the weight of additional equipment

IEC 60601-1 Second edition 1988-12 135 kg

IEC 60601-1 Third edition 2005-12 160 kg

Maximum allowed weight of additional equipment to be attached to the chair
55 kg

Maximum allowed torque caused by additional equipment on chair adapter interface or on Planmeca SingLED / OP tray adapter 365 Nm

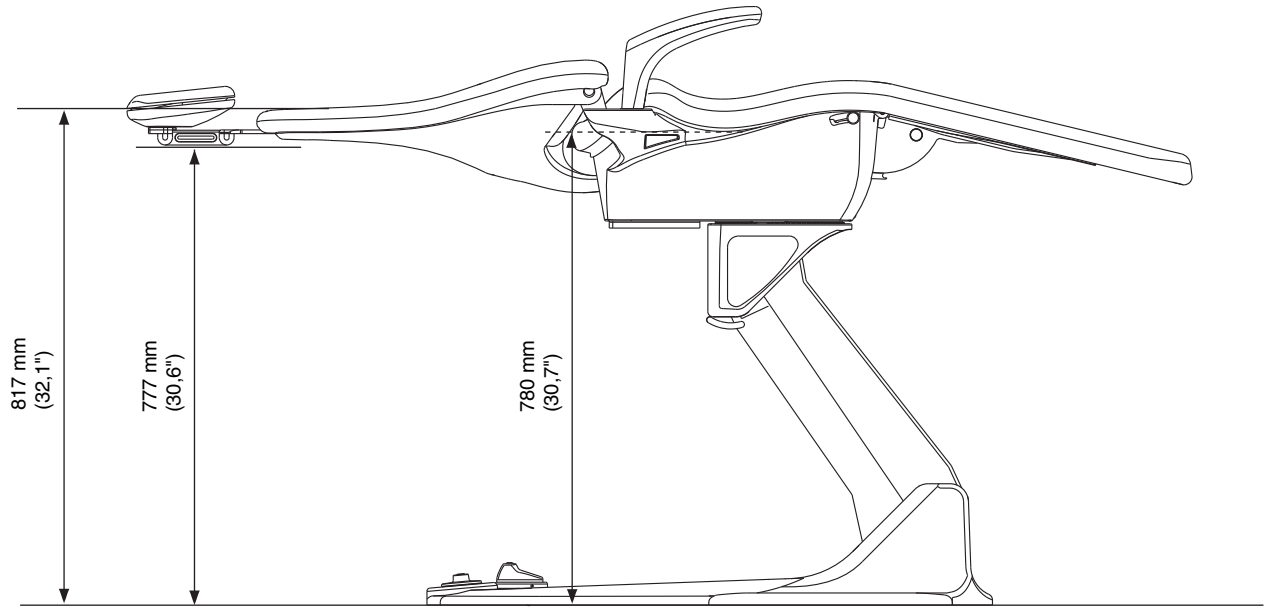
Maximum allowed weight of additional equipment on Planmeca SingLED / OP tray adapter
50 kg

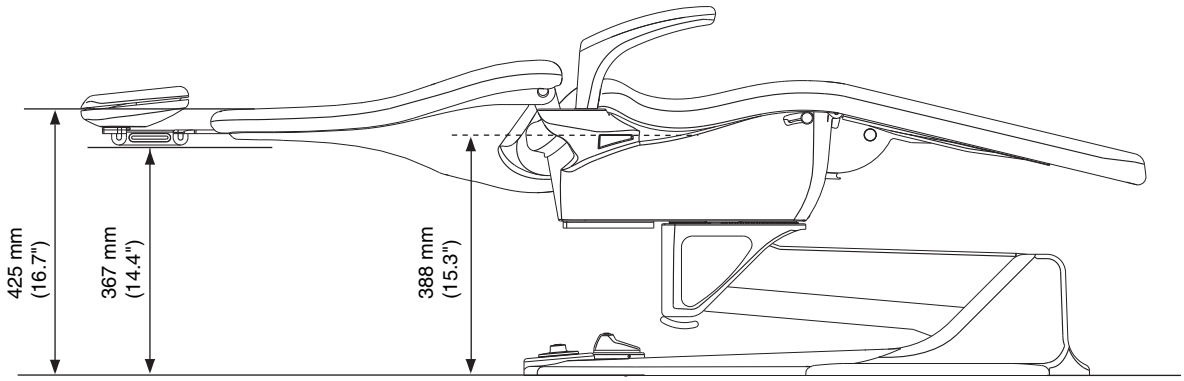
Original manufacturer

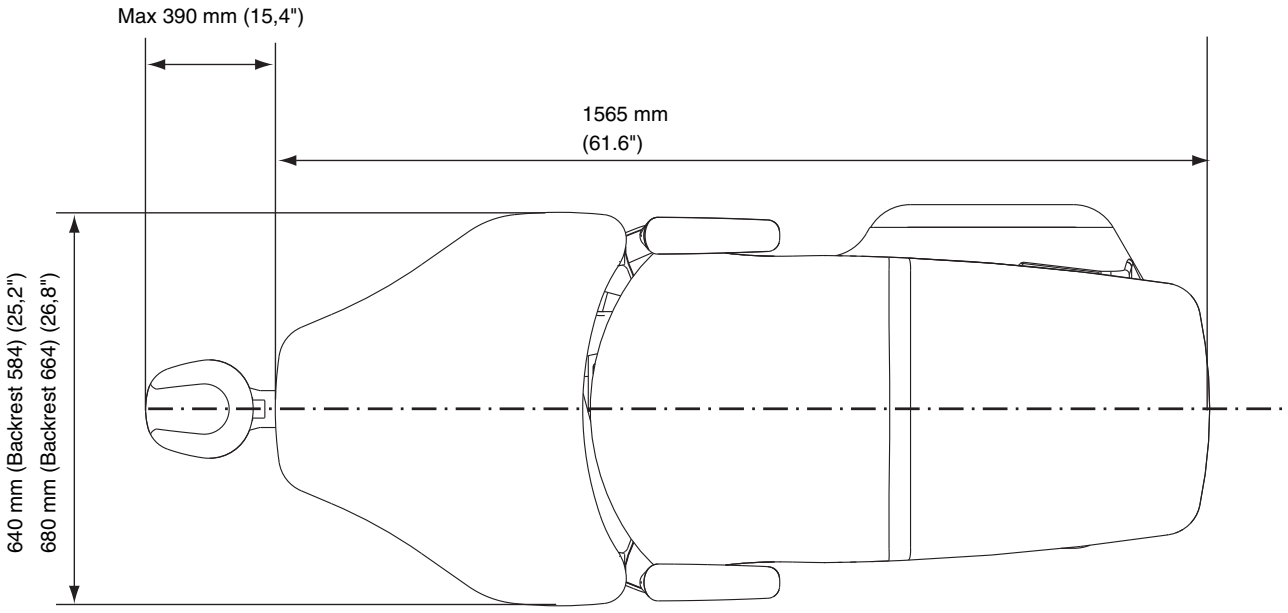
PLANMECA Oy, Asentajankatu 6, FIN-00880, Helsinki, FINLAND

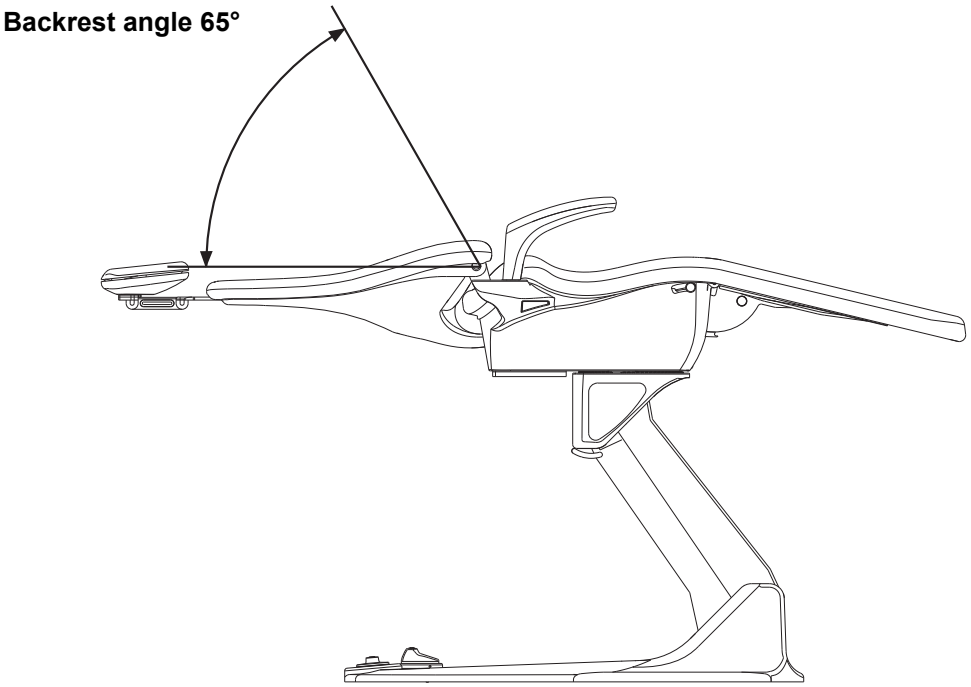
Phone: +358-20-7795 500, fax: +358-20-7795 555

Dimensions


817 mm
(32,1")
777 mm
(30,6")
780 mm
(30,7")


425 mm
(16.7")
367 mm
(14.4")
388 mm
(15.3")


Max 390 mm (15,4")
1565 mm
(61.6")
640 mm (Backrest 584) (25,2")
680 mm (Backrest 664) (26,8")


Backrest angle 65°

PLANMECA

Planmeca Oy | Asentajankatu 6 | 00880 Helsinki | Finland

tel. +358 20 7795 500 | fax +358 20 7795 555 | sales@planmeca.com | www.planmeca.com