

Podiatry Procedures Chair

For Models:

646

647 Barrier-Free®



MA7870p

User's Guide

Product Information

(The information below is required when calling for service.)

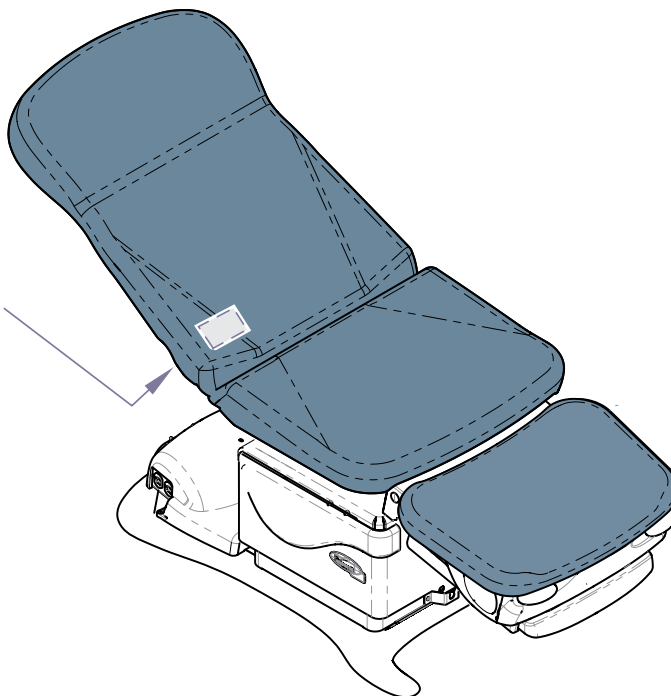
Dealer :

Date of Purchase:

Model / Serial Number:

**Midmark Authorized Service
Company:**

**Model / Serial
Number Label**



MA78771

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Important Information

Safety Symbols



DANGER

Indicates an imminently hazardous situation which will result in serious or fatal injury if not avoided. This symbol is used only in the most extreme conditions.



WARNING

Indicates a hazardous situation which could result in serious injury if not avoided.



CAUTION

Indicates a potentially hazardous situation which could result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.



Equipment Alert

Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

Note

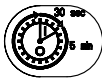
Amplifies a procedure, practice, or condition.



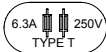
Consult User Guide for important information



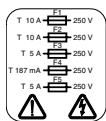
Protective earth ground



Duty Cycle (motor run time):
30 seconds ON, 5 minutes OFF



Fuse replacement label (647)



Fuse replacement label (646)



Keep dry



Type B, Applied Part



Proper Shipping



Maximum stacking height
(palletted units)



Fragile



Emergency Stop

Intended Use



Caution

Be sure that all persons and equipment are clear of the table before activating any function. Failure to do so could result in personal injury.

This product is intended to be used as a chair / table to provide positioning and support for patients during examinations and procedures conducted by qualified medical professionals (*primarily podiatrists*).

Electrical Requirements



CAUTION

When using high frequency surgical devices or endocardial catheters:

- Use non-conductive material to insulate patient from metal portions of the chair.
- Consult operating instructions for the device before using in conjunction with drawer or upholstery heater.

Failure to comply may result in electric shock or burns to patient.

Electromagnetic Interference

This Midmark chair is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this chair:

- Remove interfering device from room
- Plug chair into an isolated circuit
- Increase separation between chair and interfering device
- Contact Midmark if interference persists

Note

Electromagnetic Compliance Statements per EN60601-1-2 are available online:
Go to: www.documark.com (Use **FIND** feature to locate: **077-0501-00**)

Transportation / Storage Conditions

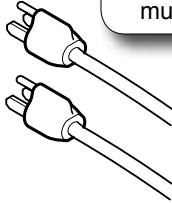
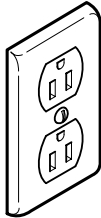
Ambient Temperature Range:..... +41°F to 100°F (+5°C to +38°C)
Relative Humidity..... 10% to 90% (non condensing)
Atmospheric Pressure500hPa to 1060hPa (0.49atm to 1.05atm)

Disposal of Equipment

At the end of product life, the chair, accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, and other consumable goods.

Power to the Chair

The power indicator light is illuminated when power is properly connected to the chair. If the chair has no power, all functions will be inoperable.

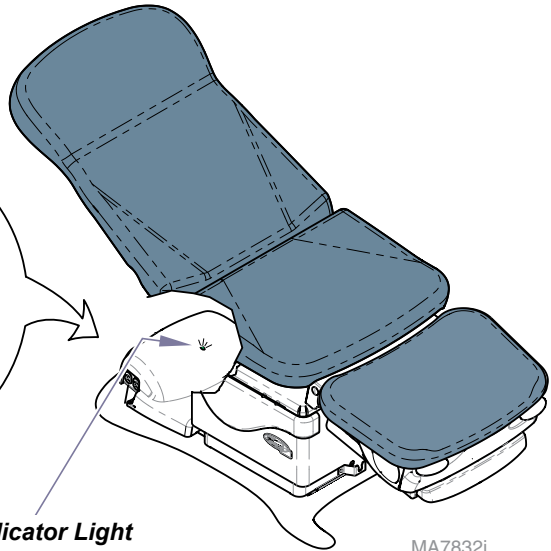
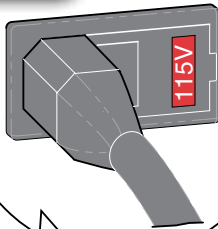


Note

646 models have a dual power cord. Both cords must be connected for proper operation.

Note

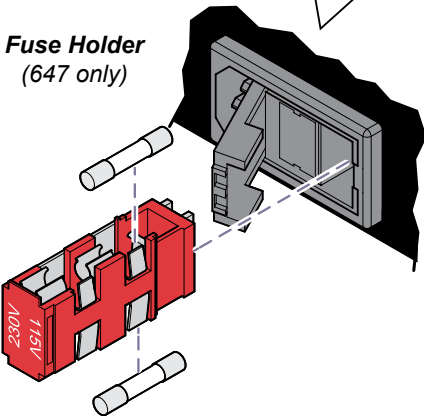
647 models have a detachable power cord.



Power Indicator Light

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Fuse Holder
(647 only)



647 only:

If the chair has no power...
Check / replace chair fuses.

To access fuses...

- Open the fuse holder cover.
- Remove fuse holder & faulty fuse(s).
- Install new fuse(s), then replace fuse holder*.

Attention: The fuse holder **must** be installed so that '115V' shows thru the fuse holder window.

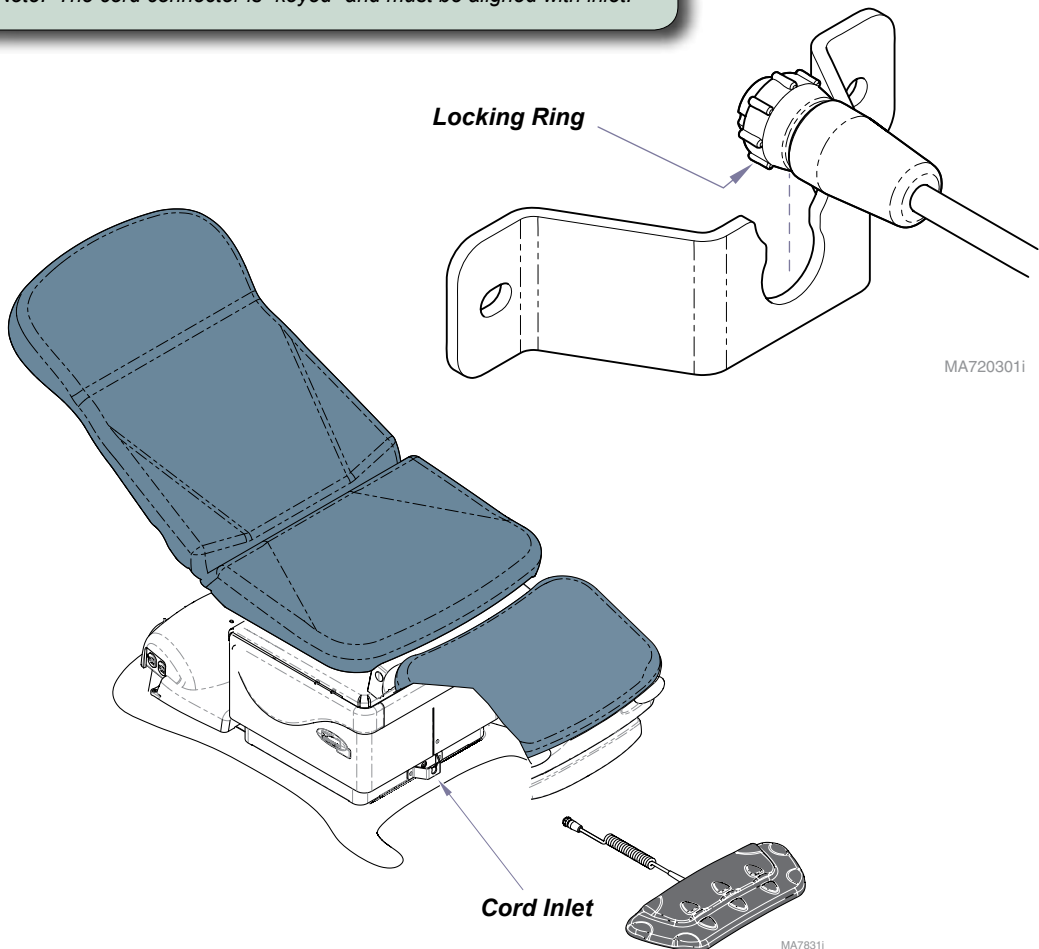
Connecting the Foot Control

The foot control cord inlet is located on the base column at the foot end of the chair.

To connect the foot control cord...

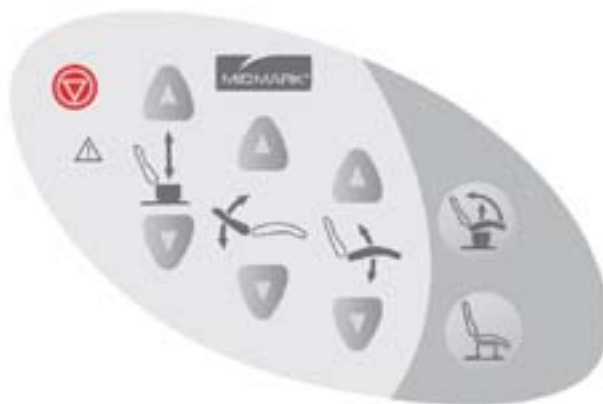
- A) Slide narrow portion of cord connector into bracket.
- B) Connect cord at desired inlet (see Note).
- C) Tighten locking ring.

Note: The cord connector is "keyed" and must be aligned with inlet.

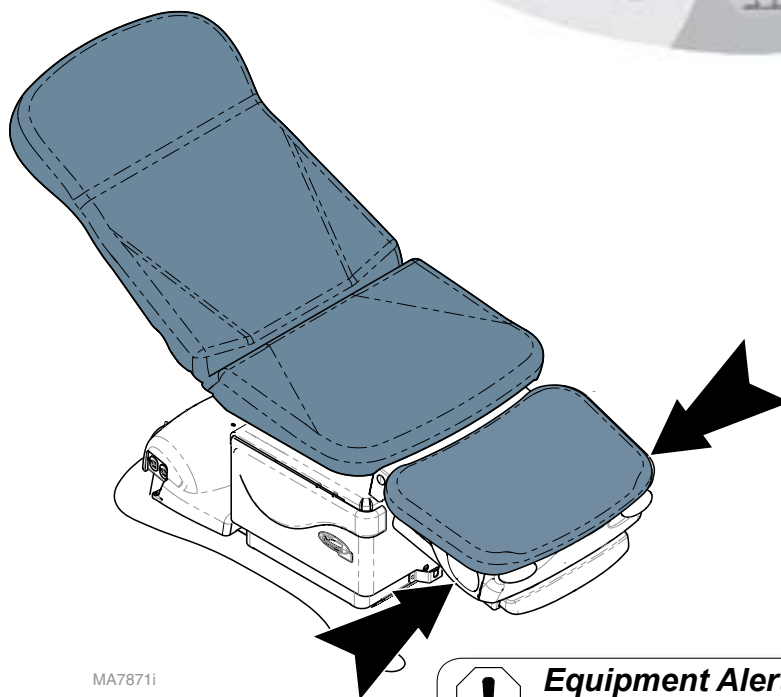


Touch Pad Location

Chair functions can be activated from either of the touch pads located on the foot section.



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Equipment Alert

The foot section is not a seat. Patients should sit only on the seat section of the chair. Sitting on the foot section may result in damage or inoperable equipment.

Operation

Back / Tilt / Base Operation

To operate any of the chair's powered functions...

Press & hold the Up or Down arrow button for the desired function.

Note: In the event of a malfunction, press the Stop button to terminate movement.

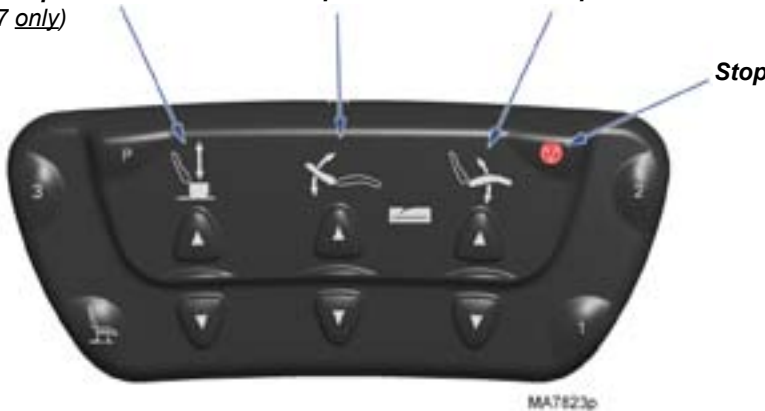
The 3-function, programmable controls are shown. The applicable symbols used on the 2-function, and non-programmable models are the same.

Base Up / Down
(647 only)

Back Up / Down

Tilt Up / Down

Stop



CAUTION

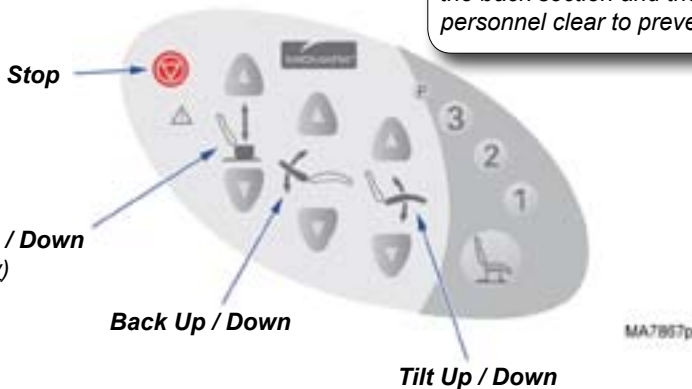
When the Back function is in full down position, **and** the Tilt function is in full up position, there is less than 2 in (5 cm) of clearance between the back section and the floor. Keep all objects & personnel clear to prevent damage / injury.

Stop

Base Up / Down
(647 only)

Back Up / Down

Tilt Up / Down



QuickChair Function

The QuickChair™ function moves the table into the “chair position” with the touch of a single button. The chair functions that are activated vary by model.

Functions activated during QuickChair Operation

646: Back Up / Tilt Down

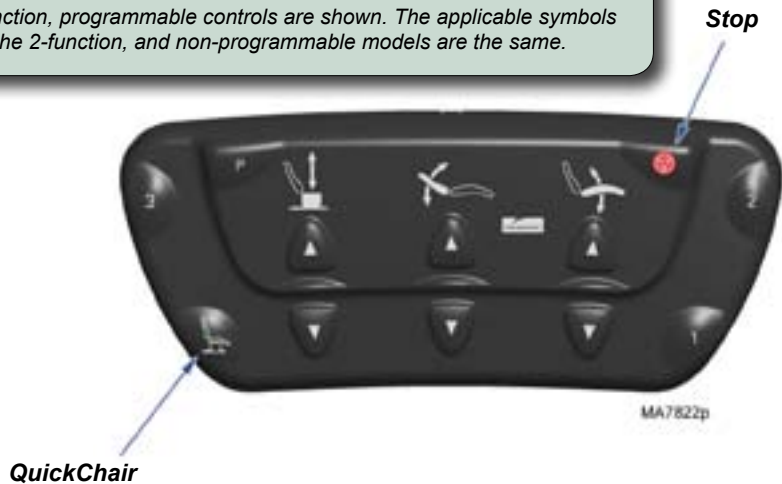
647: Base Down / Back Up / Tilt Down

To activate the QuickChair function...

Press & release the QuickChair button.

Note: In the event of a malfunction, press the Stop button to terminate movement.

The 3-function, programmable controls are shown. The applicable symbols used on the 2-function, and non-programmable models are the same.



Programming Chair Positions

(647 Programmable models only)

The Programming feature allows you to easily recall frequently used chair positions.

To program a chair position...

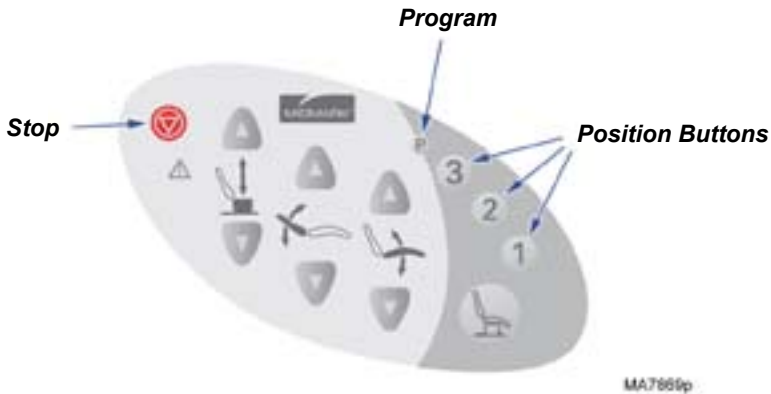
- A) Move the chair to desired position.
- B) Press the Program button (one “beep”).
- C) Press the desired Position button (1, 2, or 3). (three “beeps”)

Tip: You must press the desired Position button within five seconds of pressing the Program button.

To recall a chair position...

Press & release the desired Position button (1, 2, or 3).

Note: In the event of a malfunction, press the Stop button to terminate movement.



QuickExam Function

(647 Non-Programmable models only)

The QuickExam function positions the chair for an exam by activating the Base Up and Tilt Up functions simultaneously.

To activate the QuickExam function...

A) Press & hold the QuickExam button.

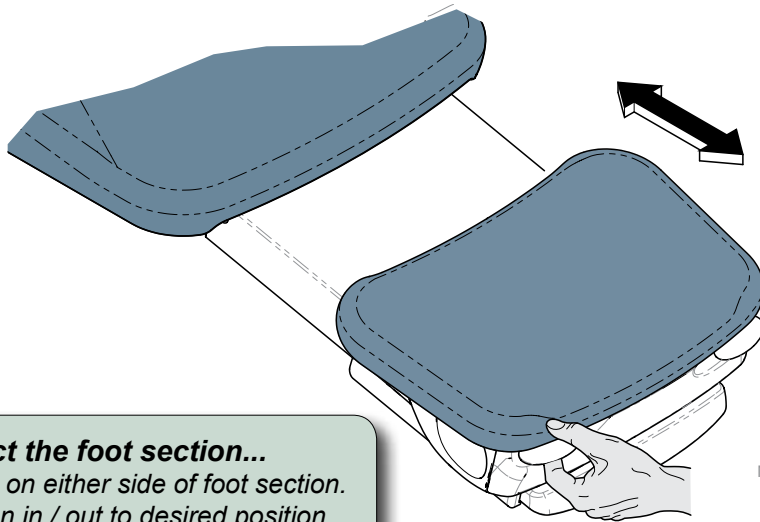
B) Release button when chair reaches desired position.

Note: In the event of a malfunction, press the Stop button to terminate movement.



Foot Section / Debris Tray

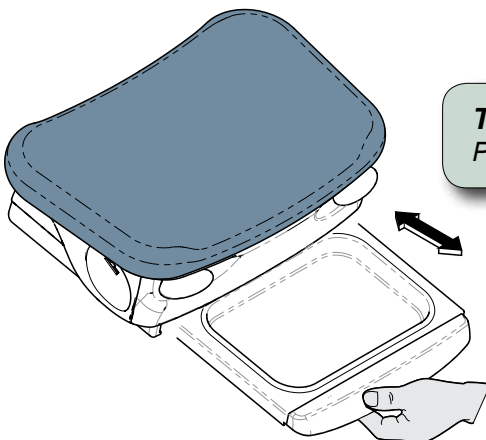
The foot section can be extended up to 9 in. (23 cm) to accommodate taller patients. The retractable debris tray is located directly under the foot section.



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To extend / retract the foot section...

- A) Squeeze handle on either side of foot section.
- B) Move foot section in / out to desired position.
- C) Release handle(s) to lock in position.



To access the debris tray...
Pull tray outward.

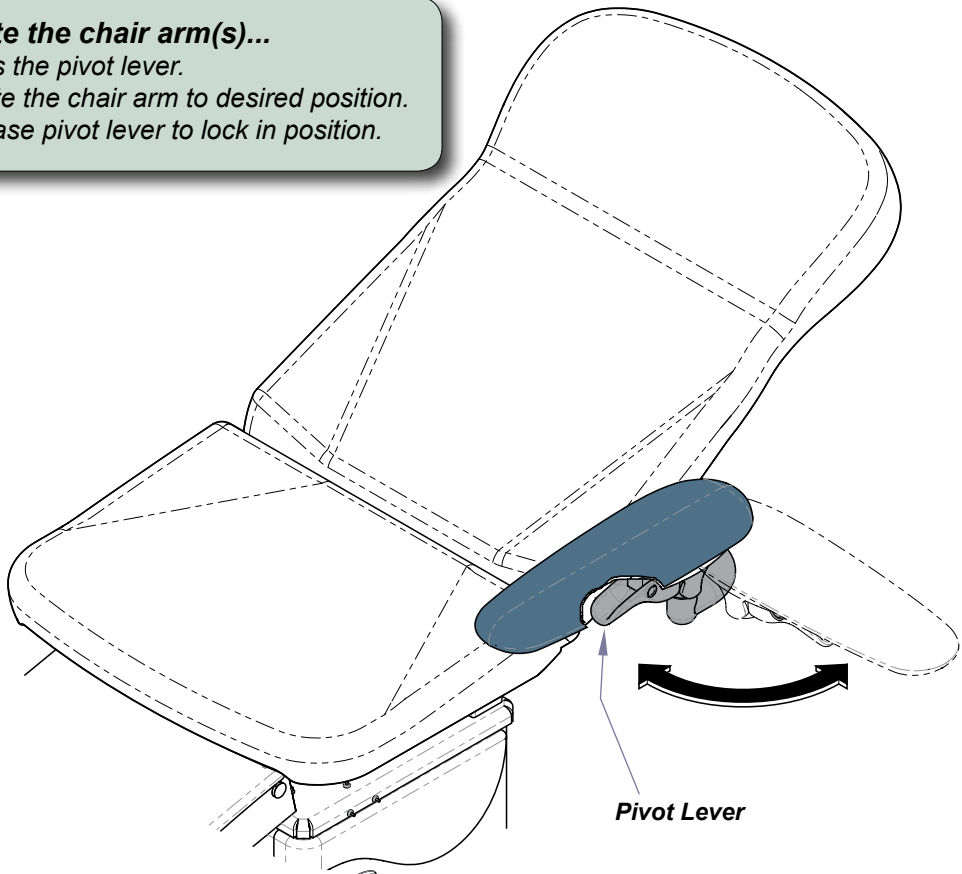
MA7836i

Chair Arms

The chair arms can be rotated 90° to allow the patient to mount / dismount the chair.

To rotate the chair arm(s)...

- A) *Press the pivot lever.*
- B) *Rotate the chair arm to desired position.*
- C) *Release pivot lever to lock in position.*



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Rotational Base Operation

(647 Rotational models only)

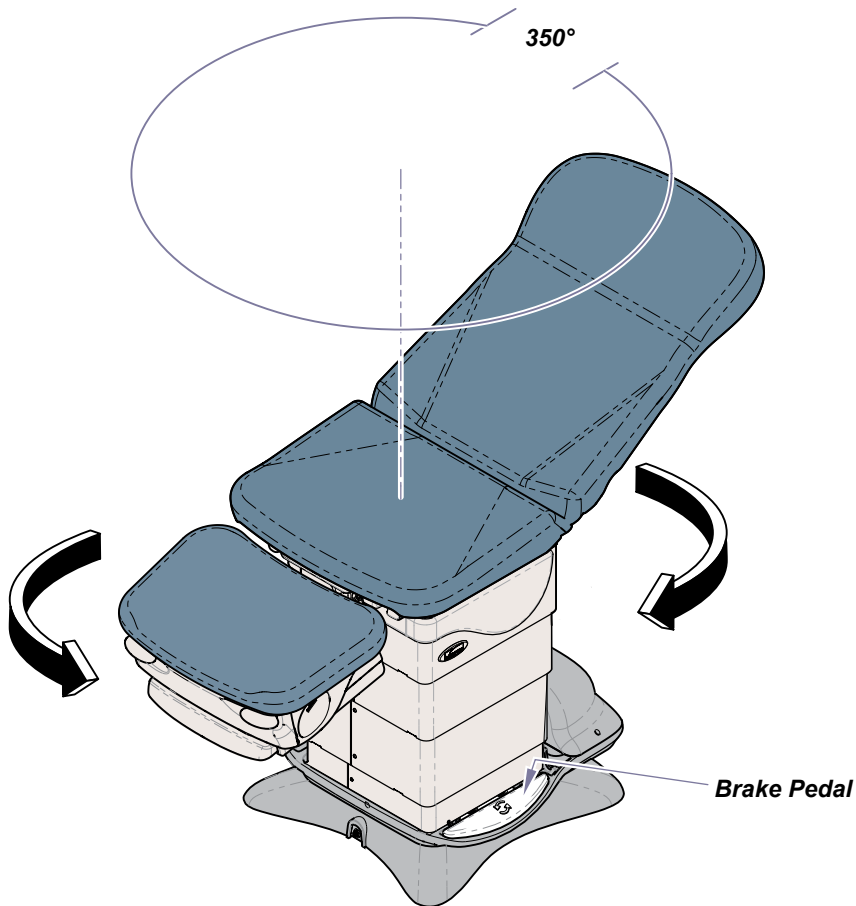
To rotate the chair...

- A) *Press & release the brake pedal.*
- B) *Rotate the chair to desired position.*

To lock in position...

Press & release the brake pedal.

Note: The base will automatically lock in position after two minutes.



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Cleaning & Maintenance

Cleaning

Upholstery



Equipment Alert

The upholstery is resistant to most medicinal stains, but may be damaged by solvents and dyes. Immediately remove any fluids spilled on the upholstery. Allow upholstery to air dry, or use a hair dryer on lowest setting.

Spot cleaning..... use mild soap and water
Difficult stains use mild solvent
Disinfecting..... use 10:1 diluted bleach solution

Painted / Plastic Surfaces

Wipe the painted metal and plastic surfaces as necessary with a clean, soft cloth, and mild cleaner. Periodic applications of common furniture wax will ease cleaning and maintain the finished luster of the chair.

Preventive Maintenance

Periodically inspect the following areas:

- Power cord should be free of cuts or other visible damage.
- All fasteners should be present and tightened securely.
- All mechanical functions should operate properly.

Have a qualified service technician inspect your table every six months.

Troubleshooting

Powered Function(s) Not Working Properly

Function	Problem	Correction
Back Up	No movement ("beeps")	646/647: Contact your authorized service provider.
Back Down	No movement ("beeps")	646: Contact your authorized service provider. 647*: Activate the Base Up, and Tilt Down functions, then retry Back Down. If problem persists, contact your authorized service provider.
Tilt Up	No movement ("beeps")	646: Contact your authorized service provider. 647*: Activate the Base Up, and Back Up functions, then retry Tilt Up. If problem persists, contact your authorized service provider.
Tilt Down	No movement ("beeps")	646/647*: Remove any obstructions under the foot section. Activate the Tilt Up, and Base Up (<i>647 only</i>) functions, then retry Tilt Down. If problem persists, contact your authorized service provider.
Base Up (<i>647 only</i>)	No movement ("beeps")	647: Contact your authorized service provider.
Base Down (<i>647 only</i>)	No movement ("beeps")	647*: Remove any obstructions under the foot section. Activate the Tilt Up, and Back Up functions, then retry Base Down. If problem persists, contact your authorized service provider.

* **Crash Avoidance System**

This chair is equipped with Midmark's Crash Avoidance System. The system is designed to prevent injury and equipment damage by disabling certain functions if the chair is in a potential "crash position".

The chair is considered to be in a potential "crash position" when the system's sensors and switches indicate that the foot section is close to colliding with the floor, or another foreign object. On 647 models, the system also monitors the position of the back section to prevent it from colliding with the floor.

The Crash Avoidance System may affect any combination of the functions listed:

646: *Tilt Down only*

647: *Tilt Up / Down, Back Down, Base Down*

Specifications

Range of Motion / Specifications Table

Back Function

Full Down: $0^{\circ} \pm 1/2^{\circ}$

Full Up: $80^{\circ} \pm 3^{\circ}$



Base Function (647 only)

Standard Base

Full Down: 19 in. (48 cm)

Full Up: 40 in. (101 cm)

Rotational Base

Full Down: 22.5 in. (57 cm)

Full Up: 43.5 in. (110 cm)



Tilt Function

Full Down: $0^{\circ} \pm 1/2^{\circ}$

Full Up: $30^{\circ} \pm 2^{\circ}$

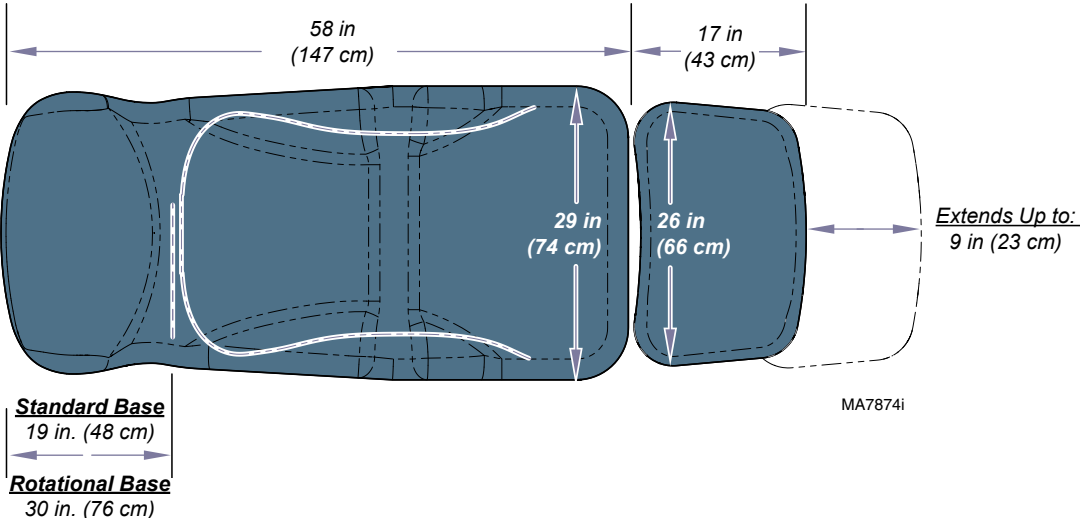
MA7873i

Patient Weight (max):	450 lbs (204 kg)
Weight of Chair:	646: 290 lbs (131 kg) 647 w/ Standard Base: 421 lbs (191 kg) 647 w/ Rotational Base: 506 lbs (230 kg)
Power Cord Length:	8 ft (244 cm)
Fuses (647 only):	6.3A, 250V, Type "T", 5 x 20 mm
Foot Control Voltage:	10 VAC, SELV (Safety Extra Low Voltage)
Chair Receptacle Maximum Load:	115 VAC, 3 amps, 50 / 60 Hz
Duty Cycle (Motor Run Time):	Intermittent Operation (30 seconds ON - 5 minutes OFF)
Protection against ingress of fluids:	646 / 647: Ordinary Equipment (IPX0) <i>Foot control only:</i> IPX1
Classifications:	Class 1, Type B, Applied Part
Electrical Requirements:	See model identification chart below
Regulatory Compliance:	See model identification chart below

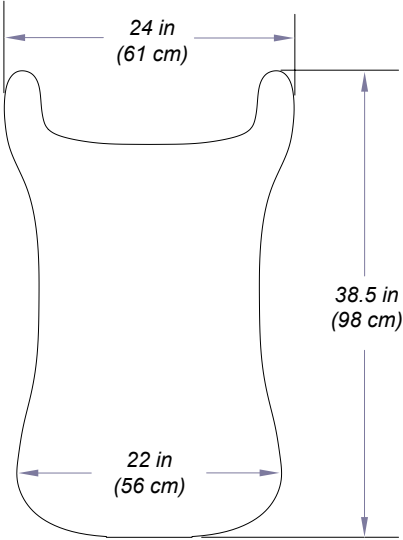
Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

Dimensions

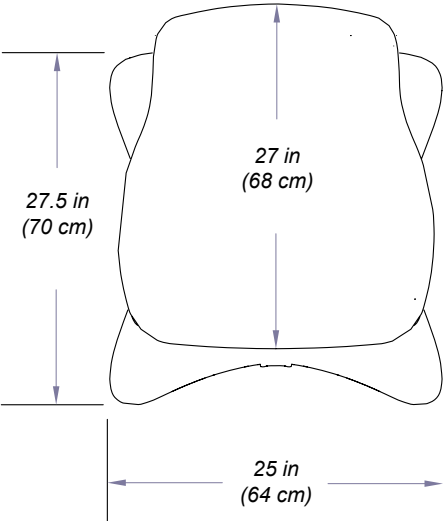
Upholstered Top



Standard Base Casting



Rotational Base Casting



MA707200

Model Identification / Compliance Chart

Model	Description	Complies To:			Electrical Ratings:		
		UL 60601-1	CAN / CSA 22.2, #601.1-M90	EN 60601-1-2 (EMC)	VAC +/- 10%	Amps	Cycles (Hz)
646-001	Two-Function Chair (Back & Tilt) Non-Programmable w/Receptacles	•	•	•	115	6.0	60
647-001	Three-Function Chair (Base, Back & Tilt) Non-Programmable w/Receptacles	•	•	•	115	10.5	60
647-002	Three-Function Chair (Base, Back & Tilt) Programmable w/Receptacles	•	•	•	115	10.5	60
647-003	Three-Function Chair (Base, Back & Tilt) Non-Programmable w/Rotational Base	•	•	•	115	8.5	60
647-004	Three-Function Chair (Base, Back & Tilt) Programmable w/Rotational Base	•	•	•	115	8.5	60

Warranty Information

Limited Warranty

SCOPE OF WARRANTY

Midmark Corporation (“Midmark”) warrants to the original purchaser its new Alternate Care products and components (except for components not warranted under “Exclusions”) manufactured by Midmark to be free from defects in material and workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components.

EXCLUSIONS

This warranty does not cover and Midmark shall not be liable for the following: (1) repairs and replacements because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark “Installation” and or “Installation / Operation Manual for this applicable product. (3) products considered to be of a consumable nature; (4) accessories or parts not manufactured by Midmark; (5) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

EXCLUSIVE REMEDY

Midmark’s only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

NO AUTHORIZATION

No person or firm is authorized to create for Midmark any other obligation or liability in connection with the products.

THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.