



# Barrier-Free® Universal Procedures Table

For Models:

630 (-001 thru -009)



## User's Guide

003-1407-00 Rev. Z (8/15)

# Product Information

(The information below is required when calling for service)

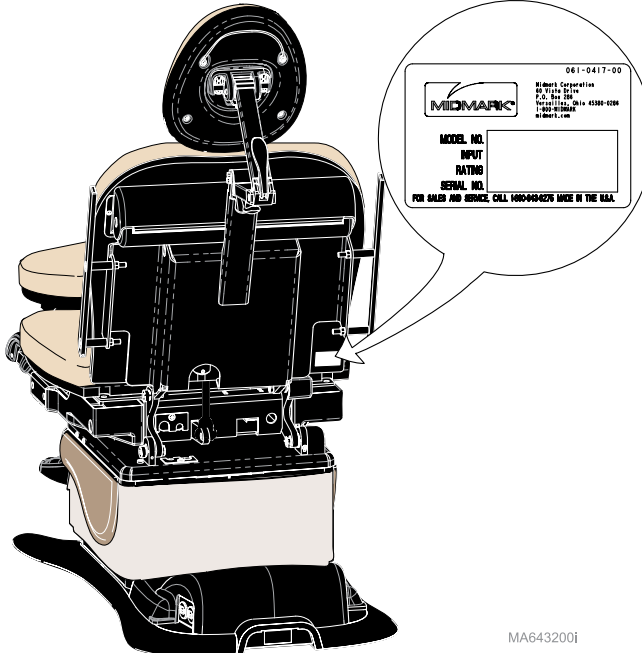
**Dealer** [name / phone]:

**Date of Purchase:**

**Model / Serial Number:**

**Midmark Authorized Service Company** [name / phone]:

## Model / Serial Number Location



MA643200i

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# Important Information

## Safety Symbols



### **WARNING**

Indicates a potentially hazardous situation which could result in serious injury.



### **Caution**

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



### **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.



Proper Shipping Orientation



Fragile



Type B, Applied Part



Protective earth ground



Emergency Stop



Keep dry



Maximum stacking height  
(palletted units)



Fuse rating specification

**IPX1**

Protected against dripping water



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



Pan must be fully retracted to  
enable Foot Up function.



Patient weight limit



**This product has been evaluated with respect to electrical shock, fire & mechanical hazards only, in accordance with UL60601-1 and CAN/CSA C22.2 NO. 601.1.**

**Intended Use**

This product is intended to be used as a chair / table to provide positioning and support of patients during general examinations and procedures conducted by qualified medical professionals.

**Electrical Requirements**



**Caution**

*When using high frequency surgical devices or endocardial catheters:*

- *Use non-conductive material to insulate patient from metal portions of the table.*
- *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 table is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this table:

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

**Disposal of Equipment**

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

**Transportation / Storage Conditions**

Ambient Temperature Range.....	+41°F to 100°F (+5°C to +38°C)
Relative Humidity.....	10% to 90% (non-condensing)
Atmospheric Pressure .....	500hPa to 1060hPa (0.49atm to 1.05atm)

# Safety Instructions



## Caution

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

## Hand / Foot Control Connection

There are two hand / foot control cord inlets. One is located on the base column at the foot end of the table, and one is located on the PC board cover at the head end. These cord inlets are interchangeable.

### To connect hand / foot control cord...

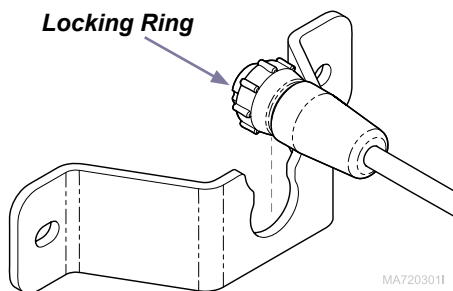
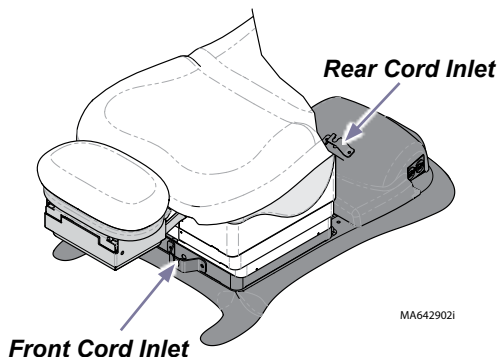
- A) Slide narrow portion of cord connector into bracket.
- B) Connect cord to inlet (see Note).
- C) Tighten locking ring.

Note: The cord connector is “keyed” and must be oriented properly to connect.



### Equipment Alert

Never plug hand/foot control into any other outlets. Doing so may damage equipment.

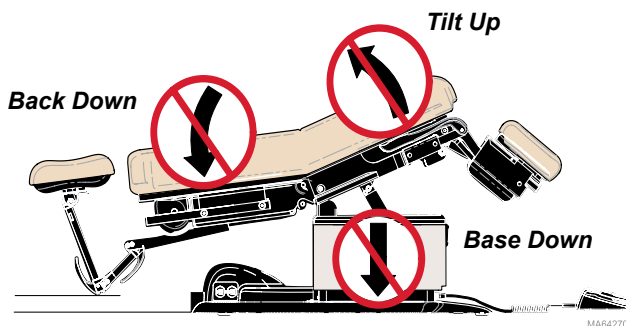


## Crash Avoidance System

The Crash Avoidance System prevents the table from colliding with the floor.

If the system detects that the headrest mechanism is approximately two inches from the floor, it will sound several audible “beeps” and disable the following functions: Base Down, Back Down, and Tilt Up.

clearance:  $\leq 2$  in. (5 cm)



# Operation

## Power To The Table

### **If Power Indicator Light is...**

**ON:** Table has power.

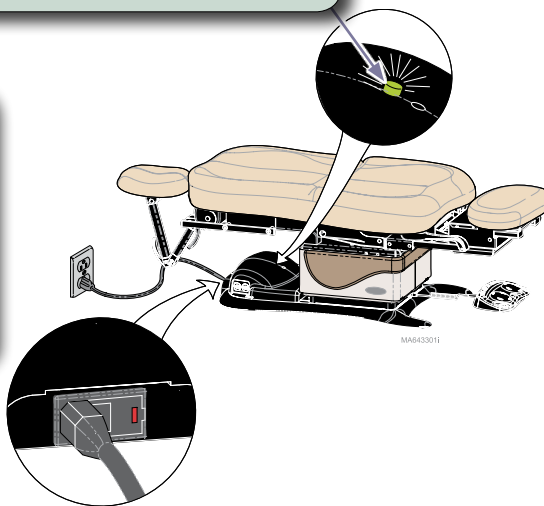
**OFF:** No power to table.

### **If the table has no power...**

All functions will be inoperable.

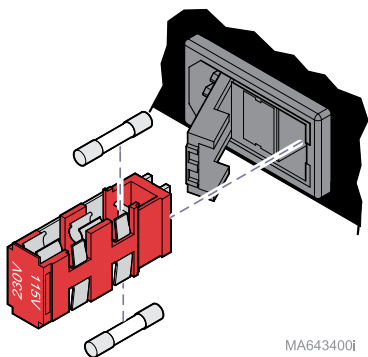
### **Before calling for service...**

- A) Check power cord connections.
- B) Check / reset facility circuit breaker.
- C) Check / replace table fuse(s).



### **Before replacing fuses...**

Disconnect power cord from table.

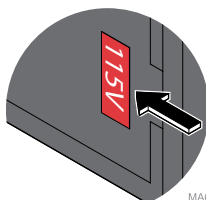


### **To replace fuses...**

[Refer to Specifications section for correct fuse size & ratings]

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

**Attention:** Voltage setting that shows thru window of fuse holder cover must match facility supply voltage.

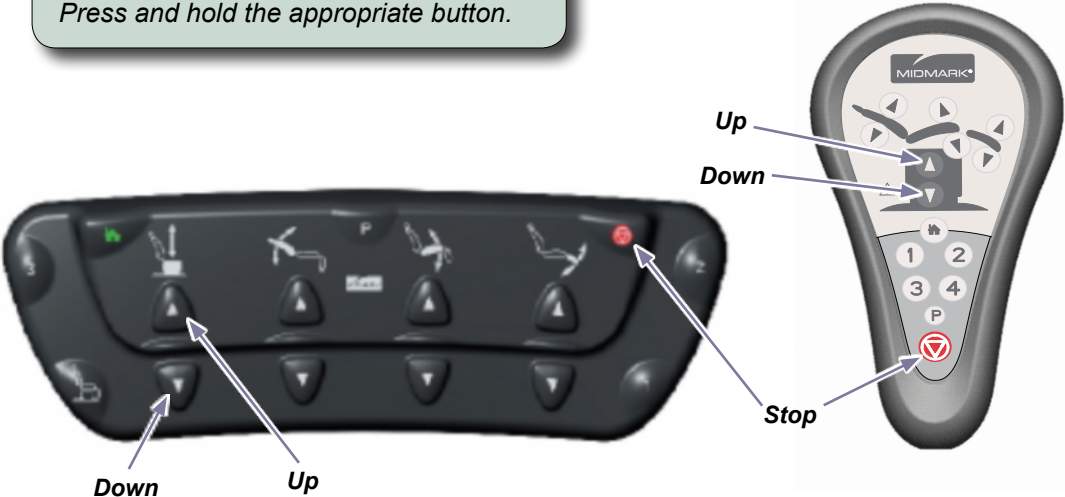


### **Equipment Alert**

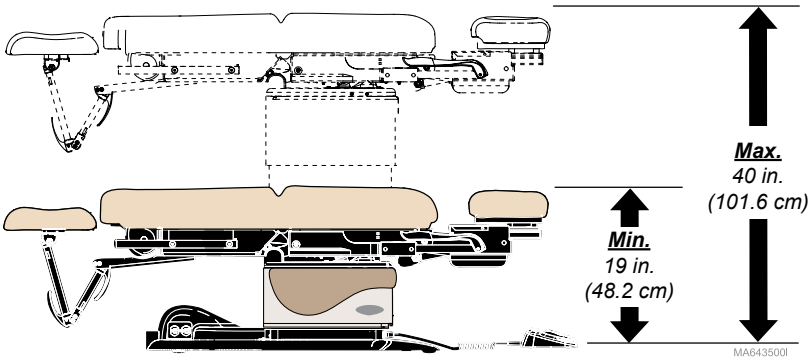
Incorrect voltage setting will result in damage to the table.

# Base Up / Down

**To move the Base UP or DOWN...**  
Press and hold the appropriate button.



**Movement stops when...**  
Up / Down button is released.  
Maximum / minimum position is reached.  
Stop button is pressed.

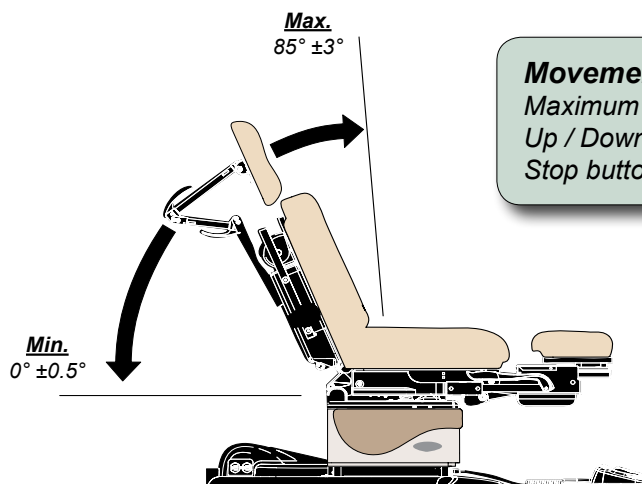
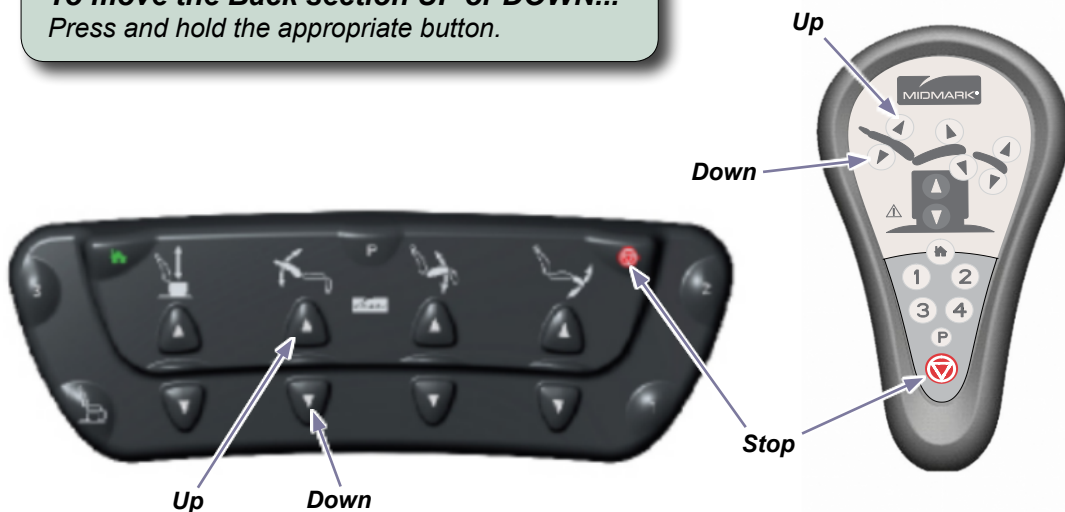


**Models w/Rotational Base**  
**Max.**  
43.5 in. (110.5 cm)  
**Min.**  
22.5 in. (57.1 cm)



## Back Up / Down

**To move the Back section UP or DOWN...**  
Press and hold the appropriate button.



**Movement stops when...**  
Maximum / minimum position is reached.  
Up / Down button is released.  
Stop button is pressed.

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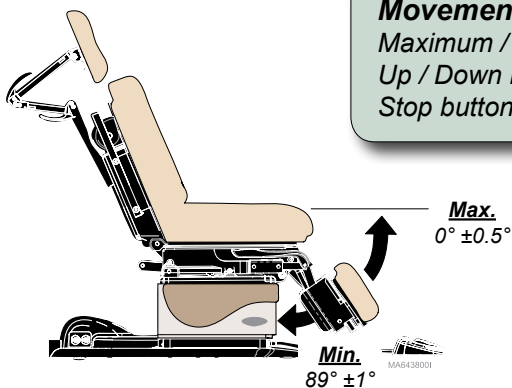
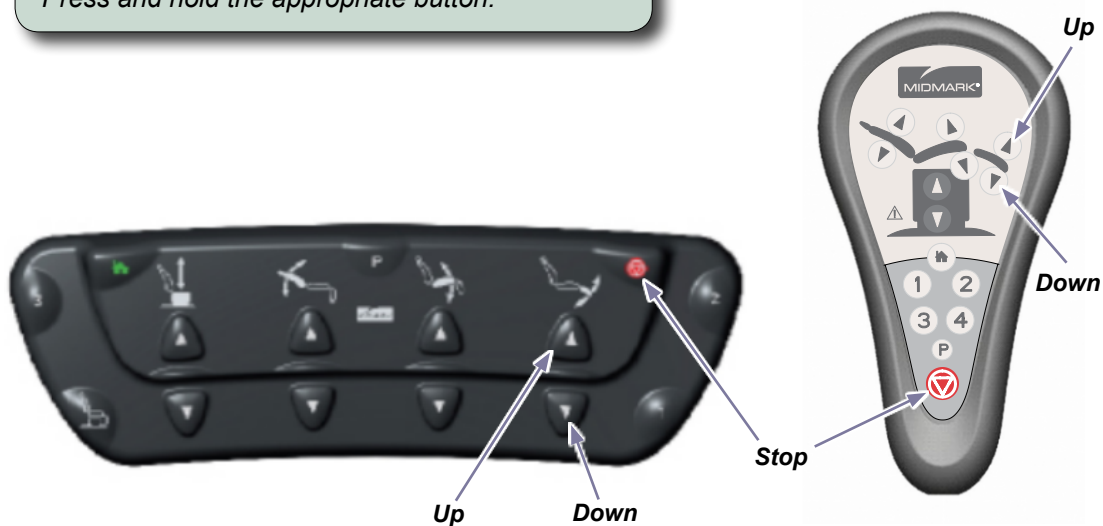
## Foot Up / Down

### Attention!

**The Foot Up function is disabled when the treatment pan is pulled out.**  
(You will hear several “beeps” when Foot Up is activated with the pan pulled out.)

To resume Foot Up operation:  
Push the pan all the way in.  
Press Foot Up button.

**To move the Foot section UP or DOWN...**  
Press and hold the appropriate button.



### **Movement stops when...**

Maximum / minimum position is reached.  
Up / Down button is released.  
Stop button is pressed.

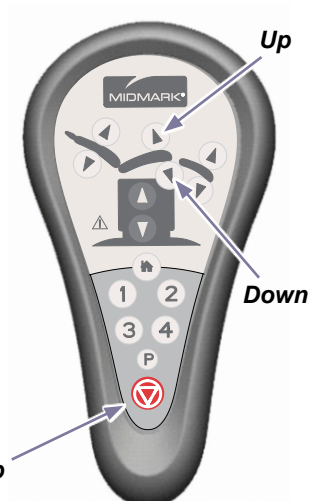
## Tilt Up / Down

**To Tilt the seat section UP or DOWN...**  
Press and hold the appropriate button.



Up

Down

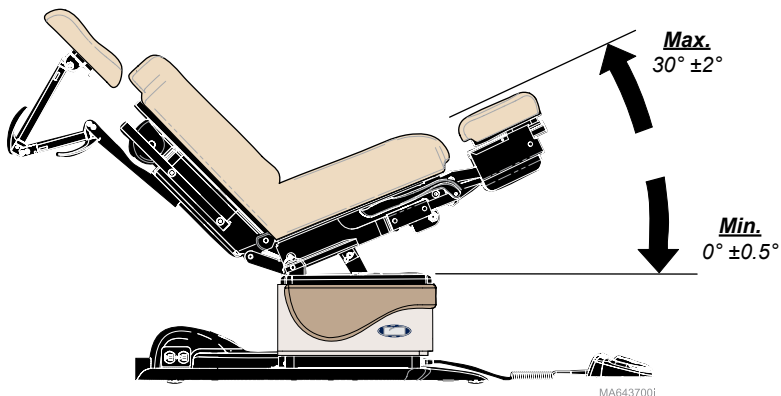


Up

Down

Stop

**Movement stops when...**  
Maximum / minimum position is reached.  
Up / Down button is released.  
Stop button is pressed.



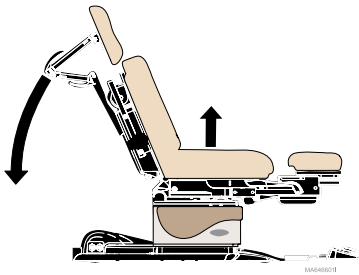
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## Activating Multiple Functions

The *BASE / BACK / TILT / FOOT* functions may be activated at the same time.

### Example:

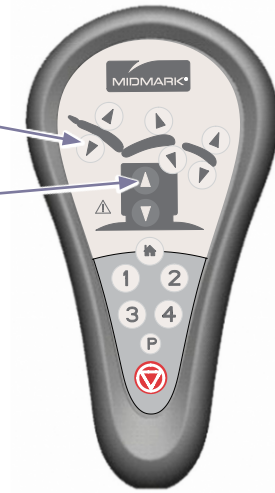
Base Up / Back Down



**To activate multiple functions ...**  
Simultaneously press & hold the desired buttons.  
(ex. Base Up & Back Down)

Back Down

Base Up



Base Up

Back Down



## Home Function

The Home function automatically lowers the table base so that your patient may get on or off of the table.

**To lower the base to 23 in. (58.4 cm)...**

*Press, then immediately release the Home button.*

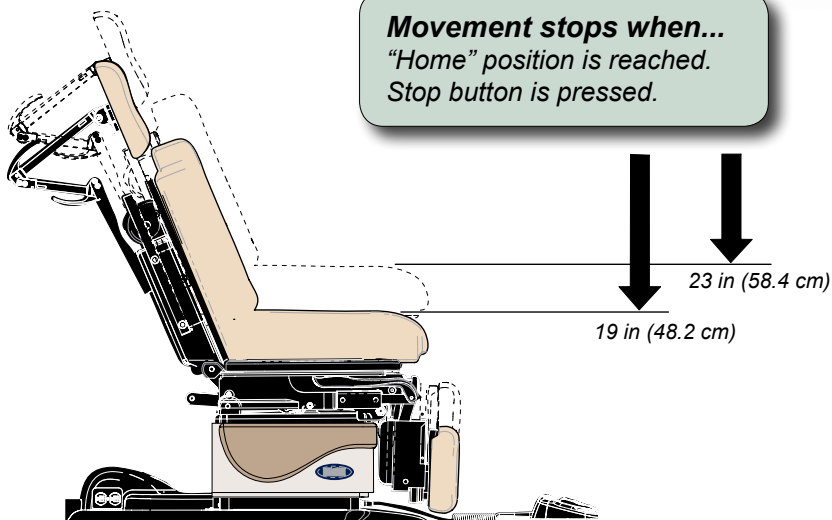
**To lower the base to 19 in. (48.2 cm)...**

*Press and hold the Home button until you hear a single “beep”.*



**Movement stops when...**

*“Home” position is reached.  
Stop button is pressed.*

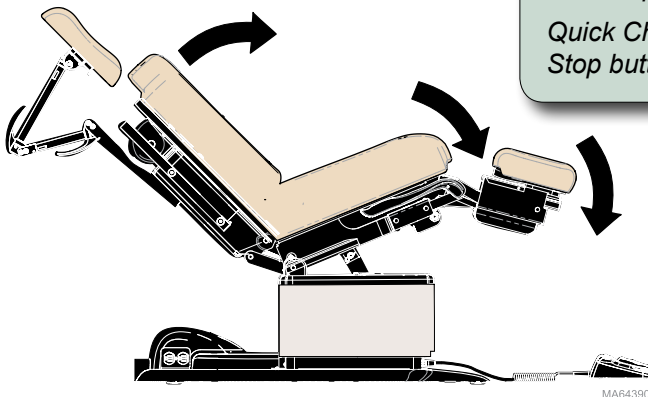


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## **Quick Chair® Function** (w/ Foot Control only)

The Quick Chair® function activates the Base Down, Tilt Down, Foot Down, & Back Up functions at the same time.

**To activate the Quick Chair® function....**  
Press and hold the Quick Chair® button.



**Movement stops when...**  
"Chair" position is reached.  
Quick Chair® button is released.  
Stop button is pressed.

## Programming Table Positions (Programmable Models only)

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

### To program a table position...

- A) Move the table to desired position.
- B) Press the Program button. (you will hear a single “beep”)
- C) Press the desired Position button (1, 2, 3, or 4).  
(three “beeps”)

**Tip:** You must press the desired Position button within 5 seconds of pressing the Program button.

### To recall a programmed position...

Press and hold the desired Position button (1, 2, 3, or 4)\*.

**Tip:** The Position buttons (1, 2, 3, 4) can be changed to function as “press & release”. Refer to: **One-Touch Positioning** for procedure to enable.

Position Button

Program

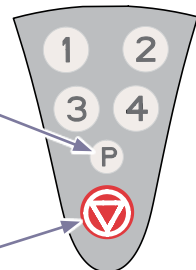
Stop



Position Buttons

Program

Stop



### Movement stops when...

Programmed position is reached.  
Position button is released.  
Stop button is pressed.

## One-Touch Positioning

(Programmable Models only)

From serial number V421340 and up

During normal operating mode, the Position buttons must be pressed & held until the programmed position is reached. When the One-Touch Positioning feature is activated, the Position buttons function as “press & release”.

### To enable (or disable) the One-Touch Positioning feature...

Press & hold the Stop & Program buttons simultaneously.  
(after five seconds, you will hear three “beeps” if successful)

### To recall a programmed position...

Press the desired Position button (1, 2, 3, 4) for two seconds.

**Tip:** After you hear a single “beep”, you may release the button & the chair will continue to move to the programmed position.

Position Button

Program

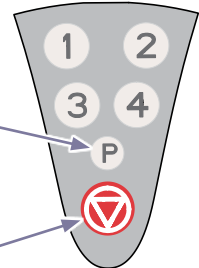
Stop



Position Buttons

Program

Stop



### Movement stops when...

Programmed position is reached.

Stop button\* is pressed.

(\* or any hand / foot control button)

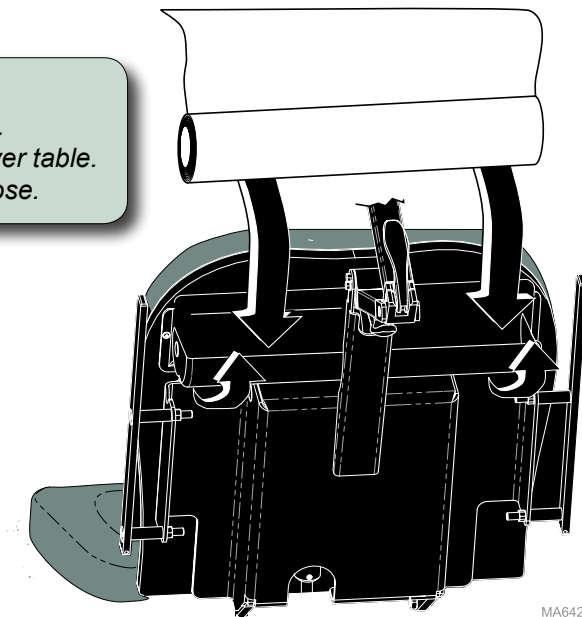


## **Paper Roll**

Paper Roll Size (max.)..... 18 in. long x 3.5 in. diameter  
(45.7 cm x 8.9 cm)

### **To install the paper roll...**

- A) Pivot paper roll cover back to open.
- B) Install paper roll, then pull paper over table.
- C) Pivot paper roll cover forward to close.



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# Stirrups



## Caution

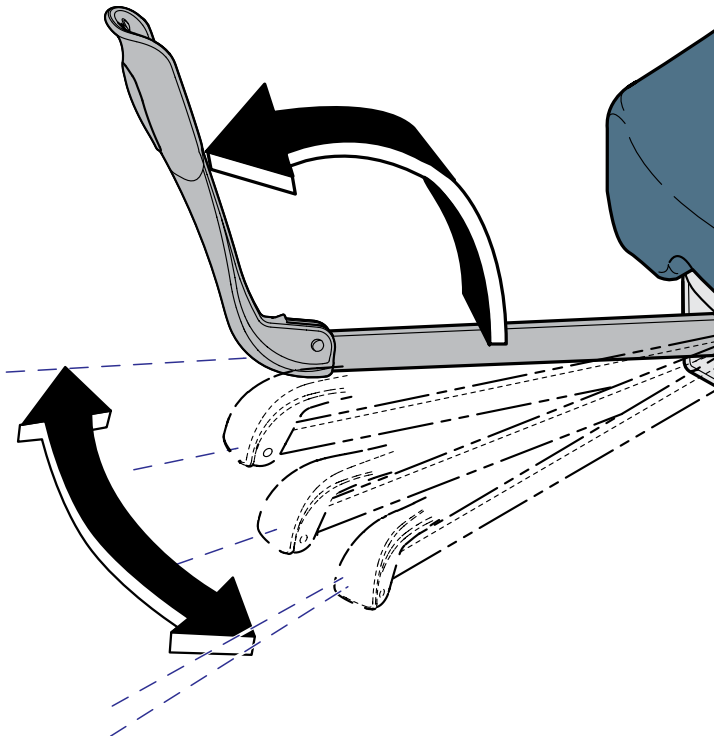
*Never use stirrups to lift table.*

*Be sure the stirrups are locked in place before using.*

*The stirrups will not support the patient's entire weight / excessive force.*

## To position the stirrups...

- A) Pull the stirrup out, then unfold.
- B) Lift the stirrup slightly, then move it left or right as desired.
- C) Release stirrup to lock in position.



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## Treatment Pan

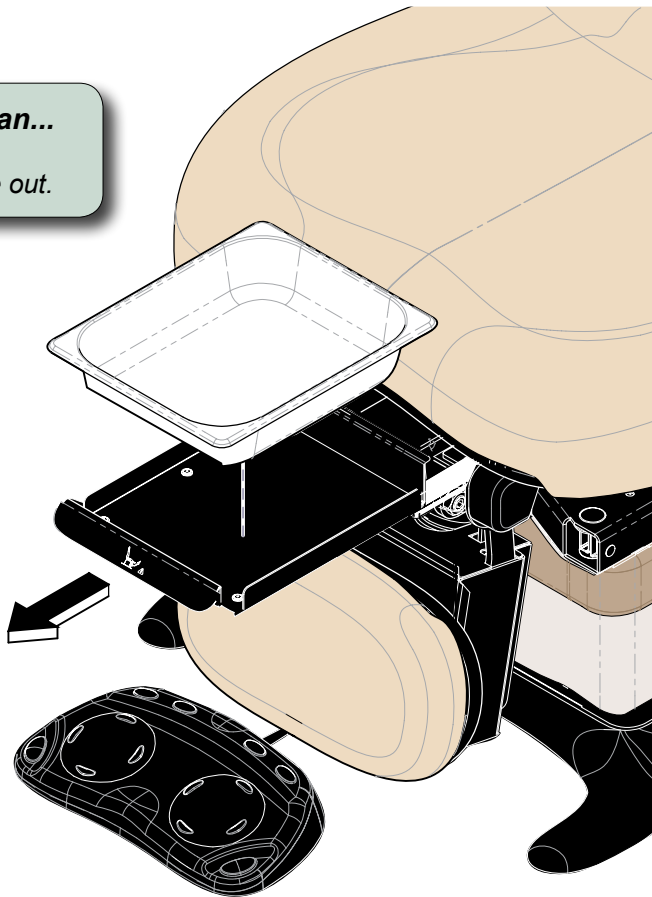
### Attention!

**The Foot Up function is disabled when the treatment pan is pulled out.**  
(You will hear several “beeps” if Foot Up is activated with the pan pulled out).

To resume Foot Up operation:  
Push the pan all the way in.  
Press Foot Up button.

### To access the treatment pan...

- A) Lower the foot section.
- B) Pull the treatment pan slide out.



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## **Duplex Receptacle (optional - not available on 230 volt models)**

*The duplex receptacle provides power for accessories used during medical procedures. Power to the receptacle will be interrupted if the maximum load is exceeded.*

**Maximum Load** [both receptacles combined] ..... 115 VAC, 3 amps, 50/60 Hz

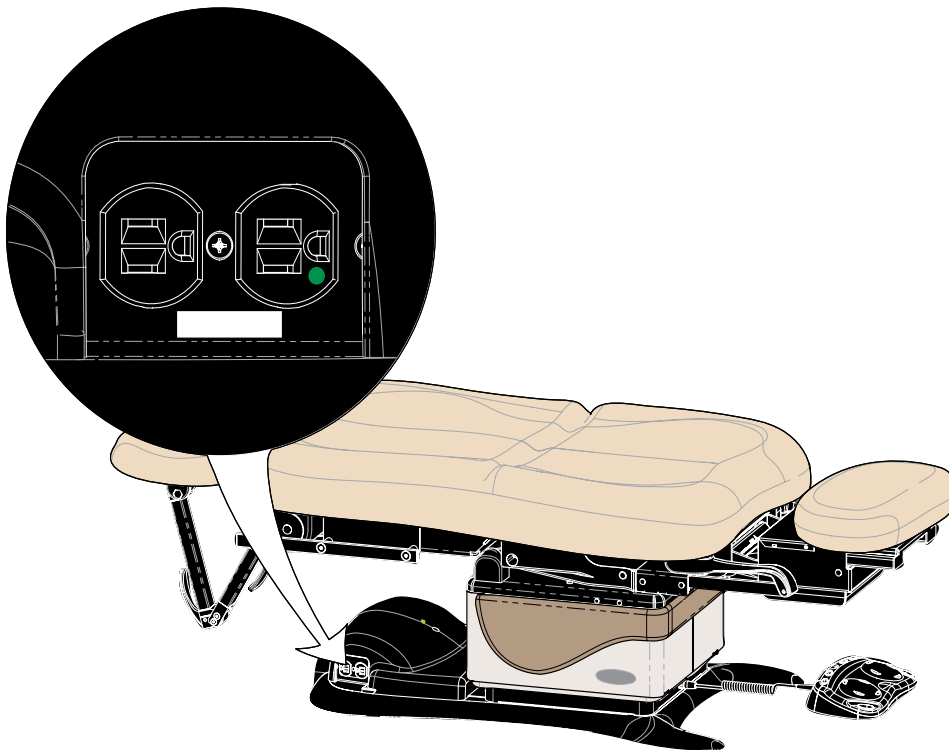


### **Equipment Alert**

*Exceeding the maximum load for the receptacle may result in blown fuses.*

*If this occurs, all table functions will be disabled until fuses are replaced.*

*[Fuse replacement procedure is shown on the **Power To The Table** page.]*



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## Headrest Positioning



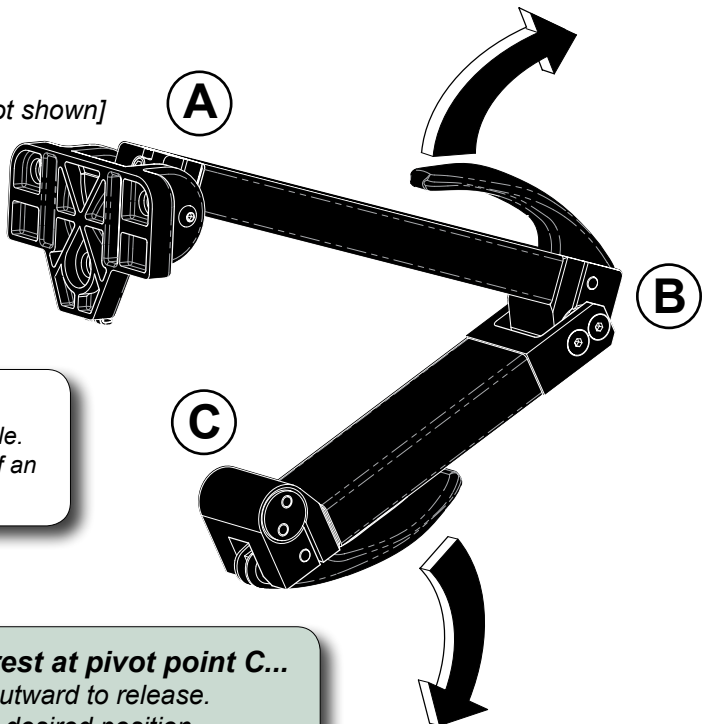
### Caution

Be sure headrest is locked securely in position before use.

### To adjust the headrest at pivot points A and/or B...

- A) Pull upper handle outward to release.
- B) Move pivot point(s) to desired position.
- C) Push upper handle inward to lock in place.

[For clarity, the upholstery is not shown]



### Note

The handle tension is adjustable.  
Contact your service provider if an  
adjustment is required.

### To adjust the headrest at pivot point C...

- A) Pull lower handle outward to release.
- B) Move pivot point to desired position.
- C) Push lower handle inward to lock in place.

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## ***Upholstery Heater (optional)***

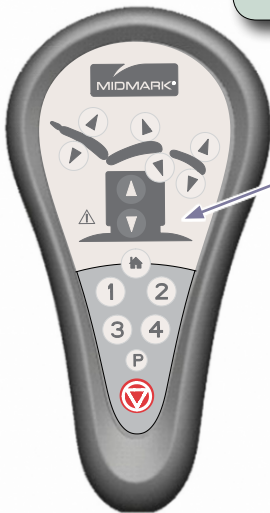
*The upholstery heater warms the seat and back sections of the upholstered top.*

### ***To turn upholstery heater ON / OFF...***

*Press and release the Upholstery Heater Button on the hand control.*

*Note: The upholstery heater will...*

- *reach operating temperature in approx. 15 - 20 minutes.*
- *automatically shut off after 8 hours.*

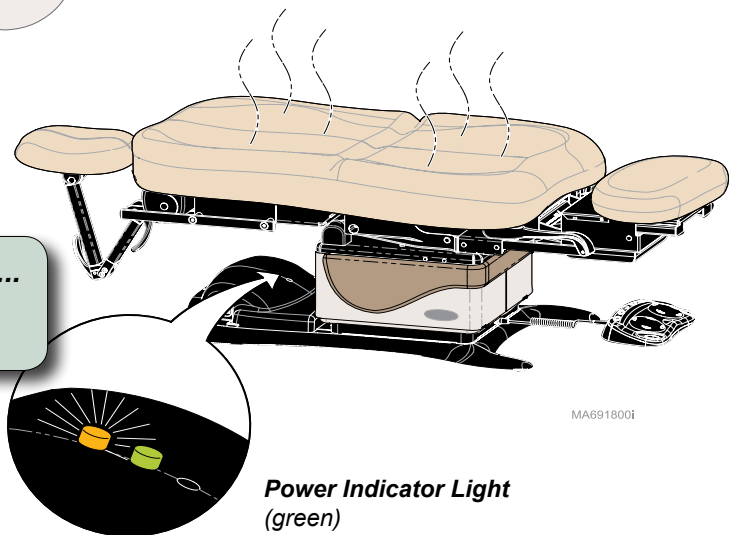


***Upholstery  
Heater Button***



### ***If Upholstery Heater Light is...***

***ON:*** Heater is ON  
***OFF:*** Heater is OFF



***Upholstery Heater Light  
(amber)***

***Power Indicator Light  
(green)***

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### ***Equipment Alert***

*If the back or seat section of the heated upholstery is punctured, it must be repaired or replaced to ensure proper operation.*

## **Rotational Base** (optional)

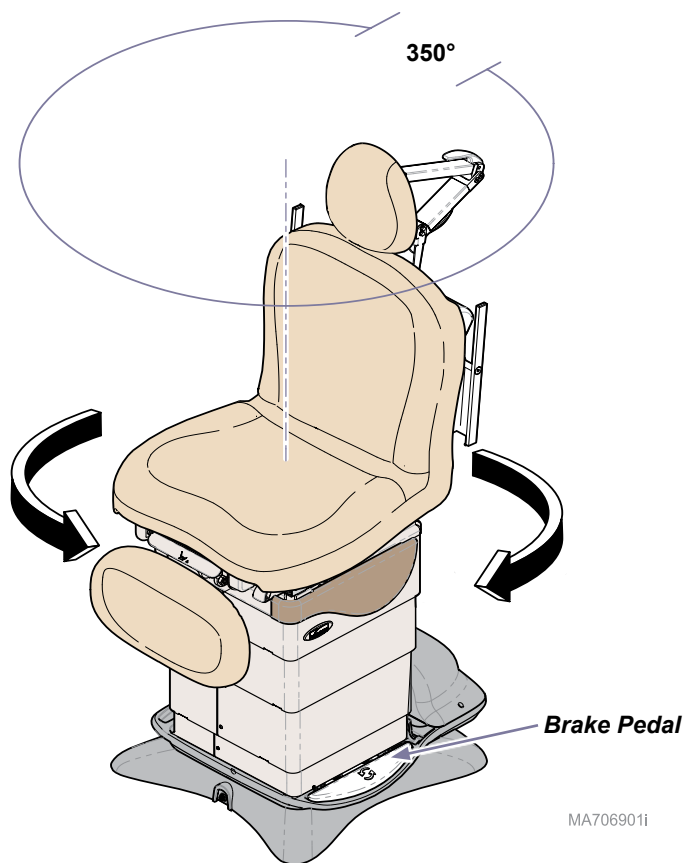
### **To rotate the table base...**

- A) Press and release the brake pedal.
- B) Rotate the table to desired position.

### **To lock in position...**

- A) Press and release the brake pedal.

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



# Maintenance

## Cleaning

### Upholstery



#### Equipment Alert

*The upholstery is resistant to most medicinal-type stains, but may be damaged by solvents and dyes. Immediately remove any fluids spilled on the upholstery.*

Wash your upholstery weekly with a mild liquid soap and water mixture, rinse with clear water and dry completely to remove disinfection cleaner build-up.

Disinfect your upholstery with a solution of standard bleach and water mixed 1 in 10 (10%) or chlorine based cleaners. Follow this with a clear water rinse and thorough drying of material. See current CDC Guideline for Disinfection & Sterilization in Healthcare Facilities.

To minimize damage caused by disinfectant cleaner residue build-up, do not allow disinfectants to pool on the upholstery surface. Once the approved contact time has been obtained, remove and dry excess liquid remaining on the surface.

Detailed care and maintain instructions are available in your user guide located on the CD that came with your table or by referring to [Upholstery Care and Maintenance](#).

### Painted Metal / Plastic Surfaces

Clean the painted metal and plastic surfaces weekly using a clean soft cloth, and mild cleaner. Periodic applications of common furniture wax will ease cleaning, and maintain the finished luster of the surfaces.

## Preventative 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.

## Calling For Service

**[Product serial number is required]**

If service is required, contact your Midmark dealer or to locate your nearest service provider, log onto: <http://www.midmark.com>

To contact Midmark directly:



1-800-MIDMARK (1-800-643-6275)

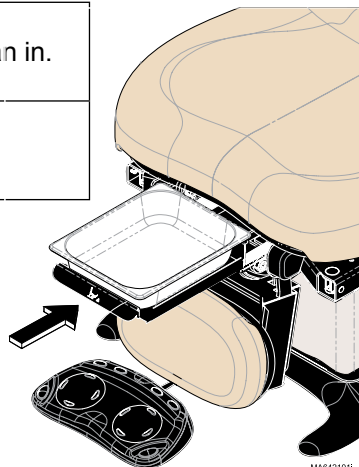
8:00 am until 5:00 pm. Monday through Friday (EST) [excluding standard U.S. holidays]



# Troubleshooting





## No Foot Up Function

<b>Function</b>	<b>Status</b>	<b>Problem</b>	<b>Correction</b>
Foot Up		No movement (“beeps”)	Push treatment pan in.
All other functions		OK	-



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## No Base Down, Back Down, and/or Tilt Up Functions\*

<b>Function</b>	<b>Status</b>	<b>Problem</b>	<b>Correction</b>
Base Down		No movement (“beeps”)	Activate Back Up and Tilt Down, then try Base Down again.
Back Down		No movement (“beeps”)	Activate Base Up and Tilt Down, then try Back Down again.
Tilt Up		No movement (“beeps”)	Activate Base Up and Back Up, then try Tilt Up again.
All other functions		OK	-

\* The Crash Avoidance System disables the Base Down, Back Down, and Tilt Up functions to prevent the headrest from colliding with the floor. For more information, refer to the **Crash Avoidance System** section.

# Specifications

## Weights, Dimensions, Electrical Specifications

<b>Patient Weight</b> <i>(maximum):</i>	450 lbs (204.1 kg)
<b>Paper Roll</b> <i>(maximum size):</i>	18 in. long x 3.5 in. diameter (45.7 x 8.9 cm)
<b>Range of Motion &amp; Dimensions:</b>	[See Range of Motion & Dimensions page]
<b>Weight of Table:</b> <b>630 (w/standard base)</b> w/packaging & skid <b>630 (w/rotational base)</b> w/packaging & skid	455 lbs (206.4 kg) 510 lbs (231.3 kg) 540 lbs (244.9 kg) 600 lbs (271.1 kg)
<b>Power Cord:</b>	8 ft. (243.8 cm) long
<b>Electrical Requirements:</b>	[See Model I.D. / Compliance Charts]
<b>Foot / Hand Control Voltage:</b>	10 VAC, SELV (Safety Extra Low Voltage)
<b>Duplex Receptacle (optional) maximum load:</b>	115 VAC, 3A, 50/60 Hz
<b>Fuses:</b> <i>Located at power cord inlet:</i> F1 & F2	6.3 A, 250V, Type T, 5 x 20 mm
<b>Duty Cycle</b> <b>(motor run time):</b>	Intermittent Operation [30 seconds ON / 5 minutes OFF]
<b>Classifications:</b>	Class 1, Type B Applied Part
<b>Protection against ingress of fluids:</b> <i>Foot Control <u>only</u>:</i>	Ordinary Equipment IPX1
<b>Regulatory Compliance:</b>	[See Compliance Charts]



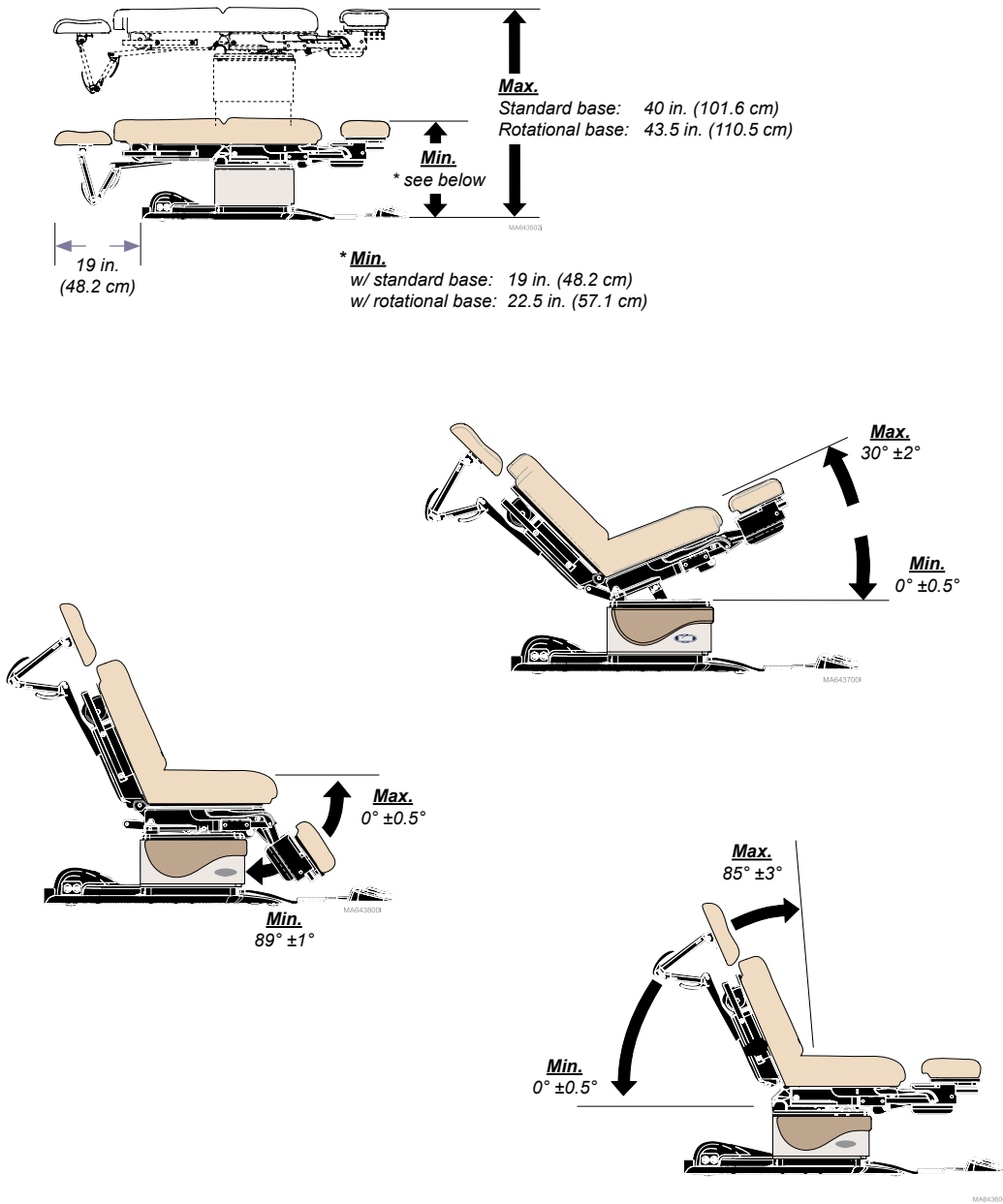
### **WARNING**

**Equipment not suitable for use in the presence of a flammable anesthetic mixture.**

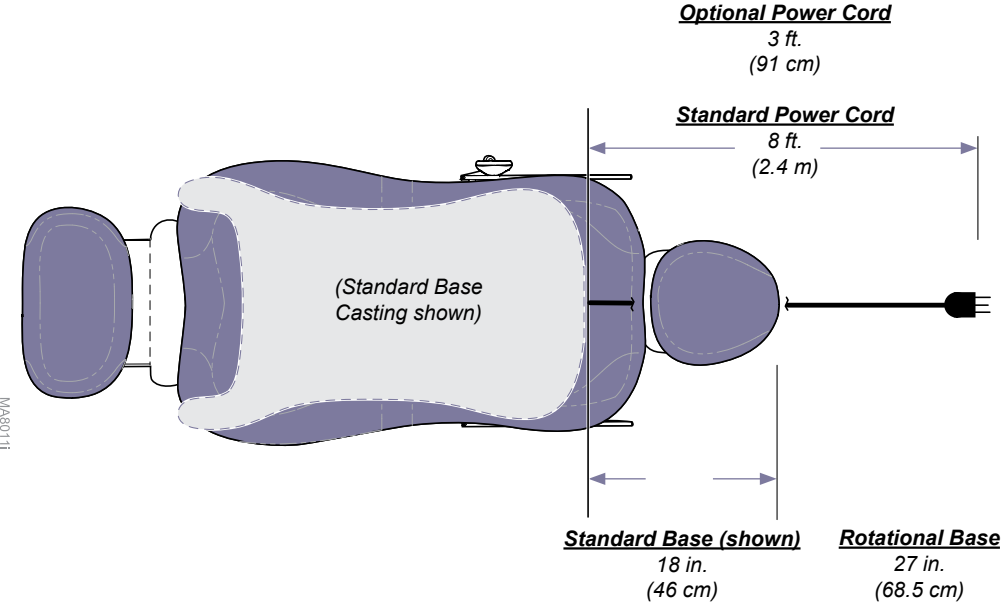
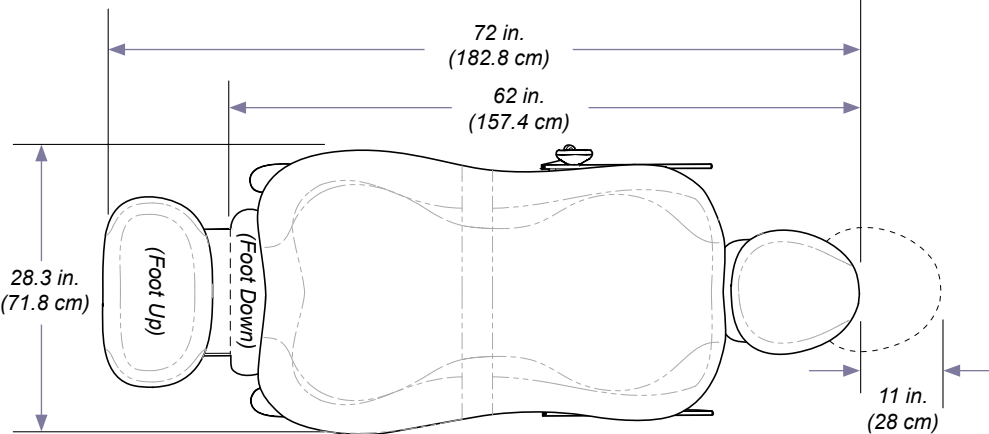
## Model Identification / Compliance Chart

Model	Description	Serial Number Prefix	Complies To:				Electrical Ratings:		
			UL 60601-1	CAN/CSA 22.2, #601.1-M90	IEC 60601-1	EN 60601-1-2 (EMC)	VAC +/-10%	Amps	Cycles (Hz)
630-001	Midmark Universal Proc. Table (Non-Programmable)	V	X	X	X	X	Configurable 115 230	Configurable 7 3.5	50 / 60
630-002	Midmark Universal Proc. Table (Programmable)	V	X	X	X	X	Configurable 115 230	Configurable 7 3.5	50 / 60
630-003	Midmark Universal Proc. Table (Non-Programmable) w/ Receptacle	V	X	X	X	X	115	10	50 / 60
630-004	Midmark Universal Proc. Table (Programmable) w/ Receptacle	V	X	X	X	X	115	10	50 / 60
630-005	Midmark Universal Proc. Table (Non-Programmable) w/ Rotational Base	V	X	X	X	X	Configurable 115 230	Configurable 7.5 3.8	50 / 60
630-006	Midmark Universal Proc. Table (Programmable) w/ Rotational Base	V	X	X	X	X	Configurable 115 230	Configurable 7.5 3.8	50 / 60
630-007	Midmark Universal Proc. Table (Programmable) w/ Heated Upholstery	V	X	X	X	X	115	7	50 / 60

# Range of Motion & Dimensions



**Range of Motion & Dimensions - (continued)**



# ***Warranty Information***

## **SCOPE OF WARRANTY**

Midmark Corporation ("Midmark") warrants to the original retail purchaser that it will repair or replace components of the domestic and international medical products manufactured by Midmark (except for components not warranted under "Exclusions") that are defective in material or 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 applicable components. This limited warranty shall only apply to defects that are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective. This warranty extends only to the first retail purchaser of a product and is not transferable or assignable.

## **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.

## **OBTAINING WARRANTY SERVICE**

Warranty service must be obtained through either Midmark or an authorized dealer in the Midmark product line for which warranty service is requested. Midmark may be contacted for warranty service inquiries or issues via email at [www.midmark.com](mailto:www.midmark.com); by phone at 1-800-MIDMARK; by facsimile at 1-800-365-8631; or by mail to Midmark Corporation, 60 Vista Drive, Versailles, Ohio 45380.

It is the retail purchaser's obligation to arrange for delivery of a product to Midmark or one of its authorized dealers for warranty service, which delivery shall be at retail purchaser's expense. It is also the retail purchaser's obligation to comply with the warranty service instructions provided either by Midmark or its authorized dealer. The retail purchaser must provide Midmark with completed warranty registration information within thirty (30) days after purchase in order to obtain the benefits of this warranty.

## **EXCLUSIONS**

This warranty does not cover, and Midmark shall not be liable, for the following:

- (1) defects, damage or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
- (2) products which are not installed, used, and properly cleaned and maintained as required in the Midmark "Installation" and/or "Installation/Operation Manual" for the 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 are not expressly authorized in writing in advance by Midmark;
- (6) costs and expenses of routine maintenance and cleaning; and
- (7) representations and warranties made by any person or entity other than Midmark.

## ***Warranty Information (continued)***

### **EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER:**

MIDMARK'S ONLY OBLIGATION UNDER THIS WARRANTY IS THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS. MIDMARK SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OR DELAYS, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER AND EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS AND BENEFITS.

### **NO AUTHORIZATION**

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

### **WARRANTY DISCLAIMER**

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

### **STATUTE OF LIMITATIONS**

No action may be brought against Midmark for breach of this limited warranty, an implied warranty, if any, or for any other claim arising out of or relating to the products, more than ninety (90) days following expiration of the limited warranty period.

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