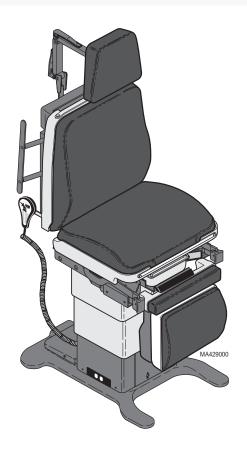


Installation and Operation Manual

411 (75L) Power Examination Table



Important Information Page 2

Installation

Page 4

Description

Page 8

Components Overview Page 10

> Controls & Indicators Page 11

Operation

Page 14

Operator Maintenance Page 29

> Calling For Service Page 32

Specifications

Page 33

Limited Warranty Page 33

Owner's Product Identification

(information that you will need to provide for servicing - key information is highlighted)

Date of Purchase

Serial Number

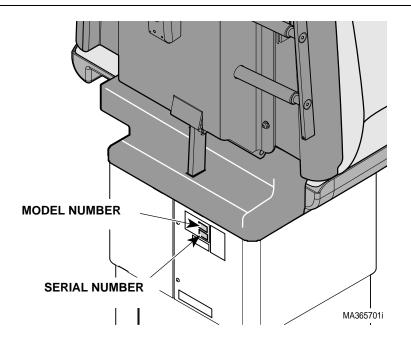
Name of Owner / Facility / Department

Model Number

Name of Authorized Midmark Dealer

Telephone # of Authorized Midmark Dealer

Address of Authorized Midmark Dealer



CONTENTS

IMPORTANT INFORMATION	. 2
Scope and Purpose of This Manual	. 2
Intended Use of Product	. 2
Safety Instructions	. 2
Explanation of Safety Symbols and Notes	. 2
Transportation and Storage Conditions	. 3
INSTALLATION	. 4
Unpacking	
Leveling The Table	. 5
Installing Hand Control and Foot Control (Optional)	. 5
Installing Upholstery	. 6
Electrical Requirements	. 8
Headrest Adjustment Tools	. 8
DESCRIPTION	. 8
Introduction	. 8
Features	. 9
COMPONENTS OVERVIEW	10
CONTROLS & INDICATORS	11
OPERATION	
Power Features	
Hand Control	
Back Section Positioning	
Tilt Function Positioning (Table Top Angle)	17
Table Function Positioning (Table Height)	18
Foot Section Positioning	19
Multiple Function Positioning	20
Procto Knee Rest Positioning	20
Stirrups	
Treatment Pan	
Paper Roll	
Headrest Removal / Installation	23
Headrest Positioning	24
Accessory Rails	24
Foot Control Operation (Optional)	25
List of Authorized Accessories	
Patient Positioning	
OPERATOR MAINTENANCE	29
Preventive Maintenance	29
Care of Table	
Headlock Assembly Adjustment	30
Headlock Handle Stops Adjustment	
CALLING FOR SERVICE	32
	33
LIMITED WARRANTY	
	55

Important Information

IMPORTANT INFORMATION

Scope and Purpose of This Manual

This manual covers complete instructions for the installation, operation, and normal care of the 411 Power Examination Table. It is intended that this manual be used by any medical personnel responsible for operating the examination table during a medical procedure or performing operator level maintenance. No repair information is included in this manual as no repairs are authorized at the operator level.

Intended Use of Product

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

Safety Instructions

The primary concern of Midmark is that this equipment is operated and maintained with the safety of the patient and staff in mind. To assure safer and more reliable operation:

- Read and understand this manual before attempting to install or operate the ٠ table.
- Assure that appropriate personnel are informed on the contents of this manual; this is the responsibility of the purchaser.
- Assure that this manual is located near the table, or if possible, permanently ٠ affixed to the table.

Explanation of Safety Symbols and Notes



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. The DANGER symbol is limited to the most extreme situations.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

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



EQUIPMENT ALERT

Indicates an imminently or potentially hazardous situation which, if not avoided, will or may result in serious, moderate, or minor equipment damage.

NOTE

Amplifies an operating procedure, practice, or condition.



Indicates that the operator's manual should be consulted for important information.

Indicates that the product is fragile;

do not handle roughly.



Indicates that the product must be kept dry.

Indicates the temperature limitations for storage of the unit.

Indicates the proper shipping orientation for the product.

Indicates the maximum stacking height of *palleted* units

Transportation and Storage Conditions

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

Important Information

INSTALLATION

Unpacking

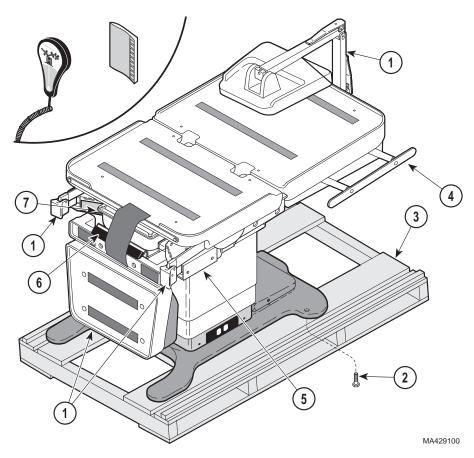
Installation



EQUIPMENT ALERT

To avoid damaging the table's upholstered top or side panels, do not use a knife or other sharp object to open the table's packaging. Also, to avoid damaging the table, do not lift at points (1).

Carefully remove the packaging from the table and upholstery. Then, inspect the table and upholstery for any shipping damage. Report any damage to the shipping company and fill out a concealed damage report.



Using a 3/4 in. (19 mm) open end wrench or socket, unbolt the table from the wooden shipping skid by removing two bolts (2) from the underside of the ta-

WARNING The table weighs approximately 515 lbs (233.6 kgs). Get an assistant(s) to help remove the table from the shipping skid.

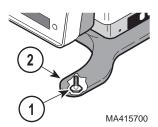
Also, use proper lifting techniques when lifting table. Failure to do so could result in serious back injury.

After unbolting, remove the table from the shipping skid (3), lifting at points (4 and 5). **Do not** lift at points (1); these are unsupported areas. Position the table in room as desired.

Remove packing tape from stirrups. Pull out treatment pan slide (6) and remove packing tape from the treatment pan assembly components. Remove the Installation & Operation Manual and hand control from treatment pan (7). Return treatment pan slide (6) to its stowed position.

Leveling The Table

A leveling screw pad (1) is located under each corner of the table's base (2). Adjust the four leveling screw pads (1) up or down (by turning them) until a solid, level installation is achieved.



Installing Hand Control and Foot Control (Optional)

NOTE

If desired, the hand control hanger (4) may be moved to the opposite side of the table by removing the two bolts and nuts securing it and then remounting it using the two predrilled holes on the opposite side of the table. If it is desired to have a hand control hanger on both sides of the table, an extra hand control hanger may be purchased.

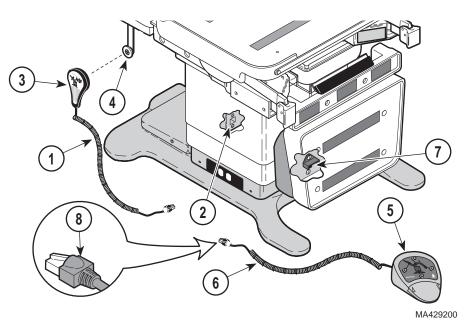
To install the hand control, remove the hand control and hand control coil cord from its shipping location in the treatment pan assembly. Insert the end of coil cord (1) into hand control port (2). Hang the hand control (3) on the hand control hanger (4).

To install the foot control (optional accessory), remove the foot control (5) from its shipping box. Insert the end of the coil cord (6) into foot control receptacle (7).

To disconnect coil cord of hand control or foot control from table, depress the tab (8) on coil cord plug. If desired, the hand control and foot control plug-in locations may be interchanged; the hand control may be plugged into foot control

Installation

Installation



receptacle (7) and the foot control may be plugged into hand control receptacle (2).

Installing Upholstery

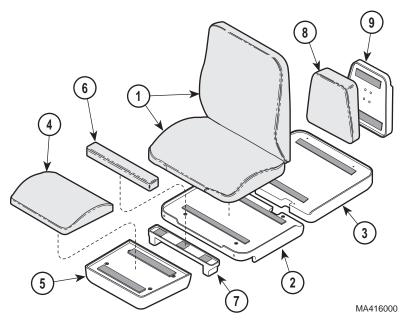


EQUIPMENT ALERT

Do not use a knife or other sharp object to open the packaging. Failure to do so could result in damage to upholstery.

The upholstery for the table is supplied in a separate box. Remove the upholstery from the packaging and inspect it for damage. Operate the table so that the FOOT section is horizontal, the TILT function is level, and the BACK section is approximately 10° above horizontal *(See Operation in this manual for instructions)*.

To install the seat and back upholstery, install the shorter end of the seat and back upholstery (1) onto the seat board (2), while making sure the front corners of the upholstery are in alignment with the seat board. Then, press the upholstery firmly against the velcro of the seat board. Next, pull up lightly on the back portion of the seat and back upholstery (1) to fully extend the vinyl over the gap between the seat and back boards. Align the upper corners of the back upholstery with the back board (3). Then, press the upholstery firmly against the velcro of the back board.



To install the foot rest upholstery, align the foot rest upholstery (4) with the foot board (5) and then press foot rest upholstery firmly against velcro of foot board.

To install the leg rest upholstery, align the leg rest upholstery (6) with the leg board (7) and then press leg rest upholstery firmly against velcro of leg board

To install the head rest upholstery, align the head rest upholstery (8) with the head board (9) and then press head rest upholstery firmly against velcro of head board.

Installation

Electrical Requirements



Description



Most exposed metal parts of the table are electrically grounded. When performing a cauterization or similar treatment, the

patient must be insulated from the metal portions of the table by nonconductive material. Failure to do so could result in electrical shock or burns to patient.

Use 115 VAC, 60 HZ alternating current only. Failure to do so could result in electrical shock to personnel and will result in damage to table.

Do not use this table in an explosive or oxygen-enriched atmosphere. Failure to do so could result in serious personal injury or death.

NOTE

Grounding reliability can only be achieved if this equipment is connected to an equivalent receptacle marked Hospital Grade (NEMA 5-15R, HOSPITAL GRADE).

The electrical rating for the unit is 115 VAC, 60 Hz, 12 amps. The three-pronged grounding plug on the table power cord must be plugged into a matching three-pronged, grounded, non-isolated, correctly polarized 115 VAC receptacle. The table power cord provides power for all electrical functions of the table, including the duplex receptacles.

Headrest Adjustment Tools

The wrenches necessary to adjust the headlock assembly have been provided. These wrenches are in a bag which has been attached to the headlock assembly of the table. Remove this bag of wrenches before using the table and store these tools with the Installation & Operation Manual.

DESCRIPTION

Introduction

The Power Examination Table is primarily used in examination rooms for general examinations and minor procedures. The combinations of its four powered motions, adjustable procto knee rest, stirrups, treatment pan, and adjustable headrest provide a table which can be tailored to facilitate most examinations and treatments being performed in a doctor's office. The table is designed to reduce the effort and fatigue, and increase safety involved in the examination and treatment of patients.

Features

The 411 Power Examination Table has . . .

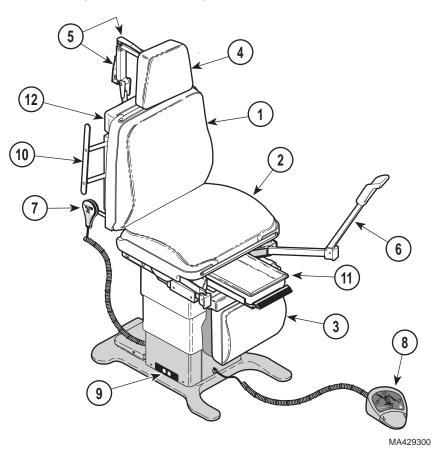
- powered positioning of its four functions; back up and down, tilt up and down, foot up and down, and table up and down.
- a hand control, ergonomically designed to fit comfortably in the palm of the operator's hand, for positioning the table top for an examination or procedure.
- an optional foot control, which allows the operator to position the table for an examination or procedure without breaking the sterile field.
- a manually adjustable head rest which may be adjusted to allow the operator to position the patient's head in a specific position or orientation.
- a manually adjustable leg rest which may be adjusted into a procto knee rest position for proctologic examinations.
- right and left stirrups which can be extended to an infinite number of positions as well as laterally in three positions.
- two 1 in. (2.5 cm) tall x 3/8 in. (0.95 cm) wide accessory rails to allow use of mounted accessories with table.
- two duplex, hospital grade 115 VAC receptacles, one located on each side of the table to power accessories or instruments.
- a paper roll holder which is hidden in the head end of the upholstered top, and tear strips, located at the foot end and head end of the upholstered top, to secure examination paper during a patient examination or procedure.
- a treatment pan which provides a convenient container to hold or store items or debris for or from an examination or treatment. The treatment pan is not intended to hold more than one ounce (29.6 ml) of fluid.
- built in diagnostics which allow for quicker and better servicing of the table should a malfunction occur.

Installation

Description

COMPONENTS OVERVIEW

The illustration below shows the location of the table's major components and the chart below provides their descriptive name.



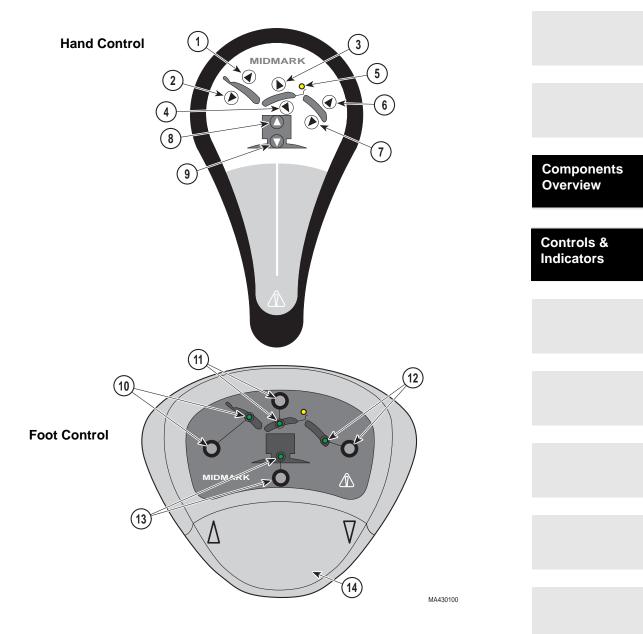
DESCRIPTION OF COMPONENTS

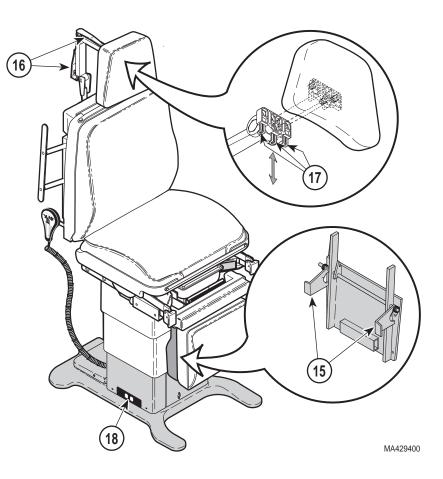
 Back Section (adjustable angle) 	7. Hand Control
2. Seat Section (adjustable tilt)	8. Foot Control (optional)
3. Foot Section (adjustable angle)	9. Duplex Receptacle
4. Headrest (adjustable)	10. Accessory Rails
5. Headlock Assembly	11. Treatment Pan
6. Stirrups	12. Paper Roll Holder

Components Overview

CONTROLS & INDICATORS

The following illustrations show the location of the table's controls and indicators and the chart on the following pages describes their function.





Ref.	Control	Function
1	Back Up button	when pressed, the back section raises.
2	Back Down button	when pressed, the back section lowers.
3	Tilt Up button	when pressed, the front of seat section raises upward, tilting the entire table top.
4	Tilt Down button	when pressed, the front of seat section lowers downward, tilting the entire table top.
5	Pan Out lamp	illuminates when an operator attempts to run the Foot Up function or Programmed Position function while treatment pan slide is extended (these functions will not operate while the treatment pan slide is extended).
6	Foot Up button	when pressed, the foot section raises.
7	Foot Down button	when pressed, the foot section lowers.

Controls & Indicators

Ref.	Control	Function	
8	Table Up button	when pressed, the entire table top is raised.	
9	Table Down button	when pressed, the entire table top is lowered.	-
10	Back Function Selector button & lamp	when depressed, the Back function is acti- vated; the up / down foot pedal can now be depressed to position the back section. The lamp illuminates to indicate the Back function is activated.	
11	Tilt Function Selector button & lamp	when depressed, the Tilt function is activated; the up / down foot pedal can now be depressed to position the tilt section. The lamp illuminates to indicate the Tilt function is activated.	
12	Foot Function Selector button & lamp	when depressed, the Foot function is acti- vated; the up / down foot pedal can now be depressed to position the foot section. The lamp illuminates to indicate the Foot function is activated.	
13	Table Function Selector button & lamp	when depressed, the Table function is acti- vated; the up / down foot pedal can now be depressed to position the table top. The lamp illuminates to indicate the Table function is activated.	Controls & Indicators
14	Up / Down Foot pedal	when the foot pedal is tilted to the left, the function which is activated will be raised. When the foot pedal is tilted to the right, the function which is activated will be lowered. Also used to initiate the "return to home" func- tion after it has been activated.	
15	Foot Rest Release han- dles	used to release foot rest so it may be removed from table or placed in a Procto position.	
16	Head Lock handles	used to unlock the headlock assembly so it may be positioned and then relocked in the desired position.	
17	Headrest Releases	Three quick releases are used to quickly remove headrest from headlock assembly so it may be replaced with a different type head- rest.	
18	Duplex Receptacle	provides power to accessories used during an examination or procedure.	

OPERATION



DANGER

Do not use this table in an explosive or oxygen-rich atmosphere. To do so could result in an explosion or fire.

If the table malfunctions, immediately remove your hand or foot from button / foot pedal, unplug the power cord from the receptacle, and assist the patient from the table. If table continues to malfunction, call for service; do not attempt to repair table yourself.

Keep personnel and equipment clear of the table before initiating power movement to avoid personal injury or equipment damage.



EQUIPMENT ALERT

For optimal table performance, allow the table to reach room temperature before operating.

Controls & Indicators

Operation

NOTE

This equipment is not designed for continuous operation; each motor has a thermal overload safety switch to protect it from overheating. If the unit is operated continually, causing one of the motors to exceed its allowable operating temperature, the thermal overload safety switch for that function will shut off the motor. If normal operation of a function ceases, immediately stop attempting to operate the table and allow the function to cool for 10 to 15 minutes before using again. The thermal overload safety switch will automatically reset when the motor cools to a safe operating temperature.

Power Features

Each motor (back actuator, tilt actuator, table actuator, and foot actuator) has a thermal overload safety switch to prevent the motor from overheating and being damaged. Each motor is also protected by a fuse to prevent excessive current draw which could damage the motor. If operation of a function does not return after a cooling period of one hour, contact your dealer or an authorized service center for repair (See Calling For Service in this manual).

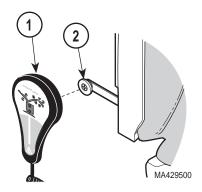
The table's four powered table functions are controlled by either the hand control or foot control (optional).

Hand Control

EQUIPMENT ALERT

The hand control is moisture resistant and runs on low voltage, eliminating hand control shock hazards. However, to avoid temporary or permanent damage to the hand control, do not immerse the hand control in water / fluids.

To use the hand control (1), remove the hand control from its hanger (2), by pulling straight up, and hold it in the palm of your hand, or if desired, let the hand control remain mounted on the hanger. Depress the button of the desired function to activate that function. There is an alert lamp on the hand control to alert the operator if the treatment pan is not fully stowed. If removed, replace the hand control (1) on its hanger (2) when table positioning is complete. A more detailed description of each of the hand control functions is included throughout the remainder of this section.



Back Section Positioning

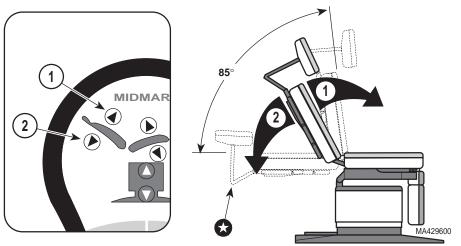
CAUTION

Keep foreign objects away from foot control. Also, be sure the foot control is not positioned below the foot section or headlock assembly of the table so that the pedals and switches of the foot control are not inadvertently activated. Failure to do so could result in frightened patient and / or damage to table.

EQUIPMENT ALERT

The Back function will automatically stop moving when either the UP or Down travel limit is reached, but the actuator motor will continue to run. Do not continue to operate a function that has reached its limit; the motor will exceed its allowable operating temperature and be stopped by its thermal overload switch, and may reduce the life of the actuator motor.

The back section can be positioned at any angle between horizontal and +85°. **To adjust the back section from a horizontal position to a chair position**, depress and hold the Back Up button (1) until the back section reaches the desired angle or the chair position is achieved. **To adjust the back section from a chair position to a horizontal position**, depress and hold the Back Down button (2) until the back section reaches the desired angle or the horizontal position is achieved.



Depending on how the headrest is positioned, the headlock arm (O) may collide with the floor or other object when the head end of the table top is being lowered. To correct the situation, use the Tilt Down or Table Up functions to raise the headlock arm off of the floor (or other object it is contacting). Now, Back Down operation may be continued.

Tilt Function Positioning (Table Top Angle)

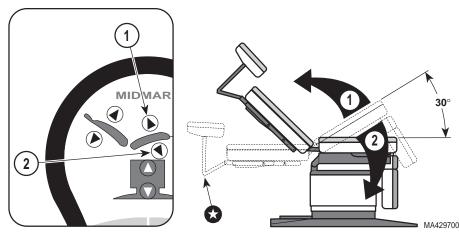
CAUTION

Keep foreign objects away from foot control. Also, be sure the foot control is not positioned below the foot section or headlock assembly of the table so that the pedals and switches of the foot control are not inadvertently activated. Failure to do so could result in frightened patient and / or damage to table.

EQUIPMENT ALERT

The Tilt function will automatically stop moving when either the UP or Down travel limit is reached, but the actuator motor will continue to run. Do not continue to operate a function that has reached its limit; this will cause the motor to overheat and may reduce life of actuator motor.

The plane of the table top can be positioned at any angle between horizontal and $+30^{\circ}$ (foot up).



Operation

To tilt the head end of the table top downward, depress and hold the Tilt Up button (1) until the table top reaches the desired angle or the maximum downward tilt is achieved. *To tilt the head end of the table upward*, depress and hold the Tilt Down button (2) until the table top reaches the desired angle or the maximum upward tilt is achieved.

Depending on how the headrest is positioned, the headlock arm () may collide with the floor or other object when the head end of the table top is being lowered. To correct the situation, use the Tilt Down or Table Up functions to raise the headlock arm off of the floor (or other object it is contacting). Now, further Tilt Up operation may be continued.

Table Function Positioning (Table Height)

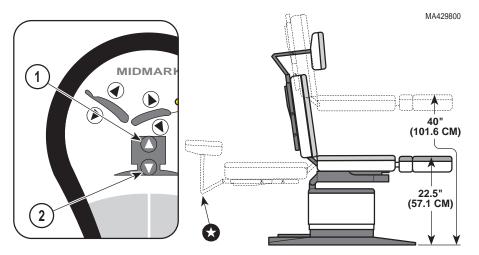
CAUTION

Keep foreign objects away from foot control. Also, be sure the foot control is not positioned below the foot section or headlock assembly of the table so that the pedals and switches of the foot control are not inadvertently activated. Failure to do so could result in frightened patient and / or damage to table.

NOTE

The Table function will automatically stop moving when either the Up or Down travel limit is reached. Even if its button is depressed, the actuator will not continue to run (as the other actuator motors will). Sensors prevent the actuator motor from running when it has reached its Up or Down travel limit, thus preventing excessive wear of actuator due to full weight of table and patient.

The table top can be positioned at any height between 22.5 - 40 in. (57.1 - 101.6 cm). *To raise the table top upward*, depress and hold the Table Up button (1) until the table top reaches the desired height or the maximum height is achieved. *To lower the table top downward*, depress and hold the Table Down button (2) until the table top reaches the desired height or the minimum height is achieved.



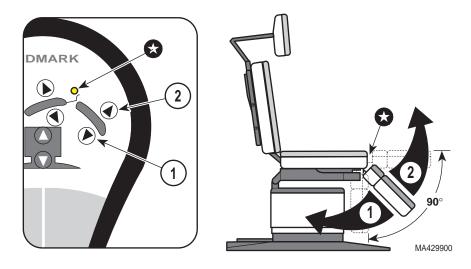
Depending on how the headrest is positioned, the headlock arm (\bigcirc) may collide with the floor or other object when the head end of the table top is being lowered. To correct the situation, use the Back Up or Tilt Down functions to raise the headlock arm off of the floor (or other object it is contacting). Now, further Table Down operation may be continued.

Foot Section Positioning

EQUIPMENT ALERT

The Foot function will automatically stop moving when either the Up or Down travel limit is reached, but the actuator motor will continue to run. Do not continue to operate a function that has reached its limit; this will cause the motor to overheat and may reduce the life of the actuator motor.

The foot section can be positioned at any angle between horizontal and -90°.



To adjust the foot section from a horizontal position to a vertical position, depress and hold the Foot Down button (1) until the foot section reaches the desired angle or the vertical position is achieved. *To adjust the foot section from a vertical position to a horizontal position*, depress and hold the Foot Up button (2) until the foot section reaches the desired angle or the horizontal position is achieved.

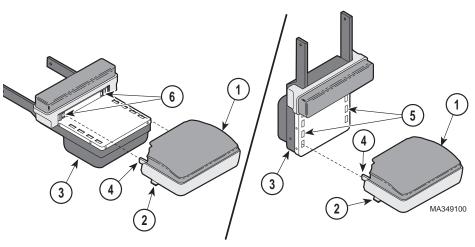
A safety switch prevents operation of the Foot Up function when the treatment pan slide (O) is extended; this prevents the foot section from colliding with the treatment pan slide. If the Foot Up function is not operable, but the Foot Down function is, check to ensure that the treatment pan slide is in its fully stowed position. A light clicking sound will be heard just before the treatment pan slide reaches its fully stowed position. Also, if the Pan Out lamp (O) is illuminated when the Foot Up button is depressed, this indicates that the treatment pan slide is not in its stowed position.



When using the hand control, multiple functions can be operated at the same time to speed positioning. However, if a function's up and down buttons are pressed at the same time, neither function will move. When using the foot control, only one function may be selected at a time; pressing any other function will deactivate the previously selected function.

Procto Knee Rest Positioning

There are four different height positions in which the procto knee rest (1) can be set for.



Operation

To remove the procto knee rest, lift release levers (2) on each side of the procto knee rest (1) and pull the procto knee rest straight away from the table.



CAUTION

Make sure the procto knee rest is securely latched in place before using with patient. Failure to do so could result in serious person-

al injury.

To position the procto knee rest, lower the foot section (3) all the way down. Then, insert the metal guides (4) of procto knee rest (1) into one of the four procto knee rest positions (5) provided, until the mechanical locking hooks can be seen or heard to engage. Pull on the procto knee rest (1) to ensure that is securely latched in place.

To return the procto knee rest to its stowed position, lift release levers (2) on each side of the procto knee rest (1) and pull knee rest out of procto knee rest position (5). Then, insert the metal guides (4) of procto knee rest (1) into foot rest slots (6) until the mechanical locking hooks can be seen or heard to engage. Pull on the procto knee rest to ensure that it is securely latched in place.

Stirrups

To erect the stirrup, grasp end of stirrup and pull stirrup straight out of table to full extension. Unfold stirrup upward to an erect position.

NOTE

If you are applying any downward pressure on the end of the stirrup when sliding it in or out, it may be very difficult to move. This is normal and is part of the stirrup extension locking mechanism. For ease of movement, lift up slightly while sliding the stirrup in or out.

To adjust the stirrup extension length, hold the end of the stirrup and slide in or out until the desired extension is achieved.

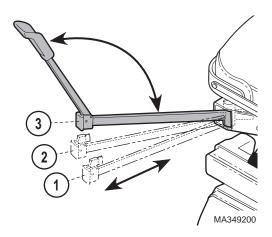


WARNING

Failure to engage the lateral locking mechanism could allow patient to lose balance resulting in personal injury to patient.

To adjust the lateral position

of a stirrup, lift end of stirrup and then rotate stirrup to the right or left into one of the three possible lateral positions. The stirrup will click into each position as it is rotated. When the desired position is attained, lower stirrup to engage the lateral locking mechanism. Check that lateral locking mechanism is engaged by attempting to rotate stirrup assembly without lifting on stirrup end.



To return stirrup to storage,

grasp end of stirrup and pull stirrup straight out to full extension. Fold stirrup down against bar, rotate stirrup to lateral position 2, and then slide stirrup back into stowed position.

Treatment Pan

NOTE

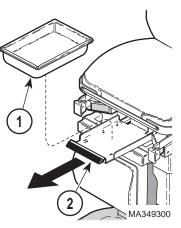
A safety switch prevents operation of the Foot Up function when the treatment pan slide (2) is extended; this prevents the foot section from colliding with the treatment pan slide. If the Foot Up function is not operable, but the Foot Down function is, check to ensure that the treatment pan slide is fully stowed. A light clicking sound will be heard just before the treatment pan slide reaches its fully stowed position. Also, if the Pan Out lamp illuminates when using the Foot Up function, this indicates that the treatment pan slide is not in its stowed position.

To expose the treatment pan (1) for use,

grasp the treatment pan slide handle (2) and pull until pan slide is fully extended.

To clean the treatment pan (1); the treatment pan can easily be removed for cleaning when the treatment pan slide (2) is fully extended. To replace the treatment pan (1), align pan and then press pan firmly into pan slide (2).

To stow the treatment pan (1) after use, push in on treatment pan slide handle (2) as far as it will go. A light clicking sound, heard just before the treatment pan slide reaches



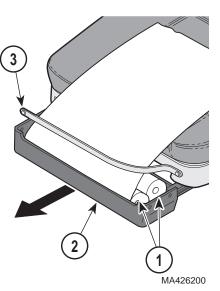
its fully stowed position, indicates that the pan slide is properly stowed.



Paper Roll

Storage for two standard 18 in. wide x 3 in. diameter $(45.7 \times 7.6 \text{ cm})$ paper rolls (1) is provided under the upper portion of the back section.

To change a paper roll, access the paper roll storage area by sliding the paper roll holder (2) toward the top of the back section (it is recommended to have the back section in a horizontal position). Insert the paper roll(s) (1) in the paper roll holder (2), drape the end of the paper roll nearest the top of the back section out of the paper roll holder, and then push the paper roll holder down under the back section. Remove one end of paper tear straps (3) and then pull paper over the upholstery. Re-



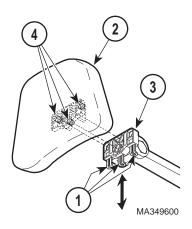
place the paper tear straps (3) to help secure the paper. New paper may now be pulled out quickly and easily for each patient.

Headrest Removal / Installation

The headrest can be removed or exchanged with another headrest to facilitate some procedures.

To remove a headrest, pull the three retaining latches (1) outward and then pull up on the headrest (2) to release the headrest from the headrest mount (3).

To install a headrest, align the three headrest studs (4) with headrest mount (3) and then push the headrest firmly onto the headrest mount. Secure the headrest (2) by pushing the three retaining latches (1) inward until they are latched.



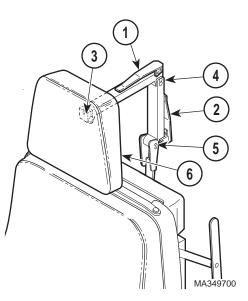
Headrest Positioning

WARNING

Make sure headrest is securely locked into position before use. Failure to have the upper and lower handles correctly locked could result in headrest falling during a procedure. This could cause serious personal injury.

Upper handle (1) and lower handle (2) are used to control the positioning of the headrest by locking and unlocking three rotational joints (3, 4, and 5) of the headlock assembly.

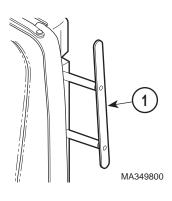
To position the headrest (6), grasp upper handle (1) and pull it outward. This releases tension at joints (3 and 4). Position upper arm and headrest as desired; then push inward on upper handle (1) to lock joints (3 and 4) in place. Grasp the lower handle (2) and pull it outward. This releases tension at joint (5). Position lower arm as desired; then push inward on lower handle (2) to lock joint (5) in place. Repeat these steps until the headrest (6) is posi-



tioned as desired. Make sure upper and lower handles (1 and 2) are locked correctly (a handle is locked correctly when it is pushed past center and the force of the clamping action pulls the handle into locked position and holds it there).

Accessory Rails

A 3/8 in. wide (9.5 mm) x 1 in. (25.4 mm) tall accessory rail (1) is located along each side of the back section for mounting of authorized accessories.



Foot Control Operation (Optional)

CAUTION

Keep foreign objects away from the foot control. Also, be sure the foot control is not positioned below the foot section or headlock assembly of the table so that the pedals and switches of the foot control are not inadvertently activated. Failure to do so could result in a frightened patient and / or damage to the table.

EQUIPMENT ALERT

The foot control is moisture resistant and runs on low voltage, eliminating foot control shock hazards. However, to avoid temporary or permanent damage to the foot control, avoid immersing the foot control in water / fluids.

Place the foot control where it will not be in the way of other staff members, but can easily be reached by the operator.

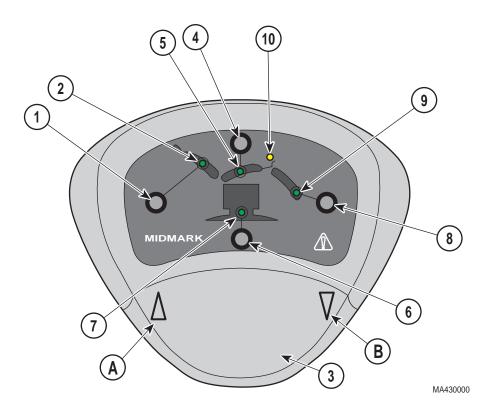
NOTE

Once a function button is depressed, the function remains activated for 10 seconds or until another function is selected; only one function may be selected at a time. When a function is moved using the foot pedal, the function's activation time is reset for another 10 seconds.

To adjust back section, depress Back function button (1) to activate the Back function; the Back function L.E.D (2) will illuminate to indicate that Back function is activated. Then, depress and hold foot pedal (3) to the *left* (A) to raise the back section as desired or depress and hold foot pedal (3) to the *right* (B) to lower the back section as desired.

To adjust table top angle, depress Tilt function button (4) to activate the Tilt function; the Tilt function L.E.D (5) will illuminate to indicate that Tilt function is activated. Then, depress and hold foot pedal (3) to the **left** (A) to tilt head end of table downward or depress and hold foot pedal (3) to the **right** (B) to tilt head end of table upward.

To adjust table top height, depress Table function button (6) to activate the Table function; the Table function L.E.D (7) will illuminate to indicate that Table function is activated. Then, depress and hold foot pedal (3) to the *left* (A) to raise the table top upward or depress and hold foot pedal (3) to the *right* (B) to



Operation

lower the table top downward.

NOTE

A safety switch prevents operation of the Foot Up function when the treatment pan slide is extended; this prevents the foot section from colliding with the treatment pan slide. The Pan Out lamp (10) illuminates when the treatment pan slide is not fully stowed. To return normal operation, push the treatment pan slide into its fully stowed position; the Pan Out L.E.D will turn off.

To adjust foot section, depress Foot function button (8) to activate the Foot function; the Foot function L.E.D (9) will illuminate to indicate that Foot function is activated. Then, depress and hold foot pedal (3) to the *left* (A) to raise the foot section or depress and hold foot pedal (3) to the *right* (B) to lower the foot section.

List of Authorized Accessories

Listed below are the accessories which are authorized for use with this table.

Accessory Name	Order Number	Restrictions / Intended Use
Chair Arm Set Assembly	9A43003	Intended Use - To provide support and comfort to the patient's arms during general examinations.
Facial Pad	9A51001	<i>Intended Use</i> - To provide stability for head during examinations / procedures. Used with a standard headrest and on 9A19900X special procedures headrest.
IV Pole	9A77001	Restrictions - Must be removed or rotated clear of moving parts before positioning table. Also, the IV Pole may interfere with an 8 ft. (20.3 cm) ceiling. Intended Use - To provide secure support for the fluid for an IV infusion. Used with a 9A205 Base Rail.
Vision Block Screen	9A78001	Restrictions - Must be removed or rotated clear of moving parts before positioning table. Intended Use - To obscure the patient's vision of a general procedure / examination. Used with a 9A205 Base Rail.
Articulating Arm- board	9A81001	Restrictions - Do not use with any other accessory on the same side of table. Use caution when positioning this accessory and positioning table. Intended Use - To hold an arm in a secure position.
Hand Proce- dures Armboard	9A82001	Restrictions - Do not operate table with this accessory installed. Intended Use - To provide positioning and restraint for an arm during a minor procedure on the hand.
Instrument Tray Assembly	9A83001	Restrictions - Must be removed or rotated clear of moving parts before positioning table. Intended Use - To hold instruments used during an examina- tion or general procedure. Used with a 9A205 Base Rail.
Foot Rest Step	9A85002	Intended Use - To provide a firm and durable step when the foot section of the table is placed in a step position.
Upholstery Cover Set	9A87001	Intended Use - To provide three covers for the upholstered sections of the head, body, and foot area of the examination table.
Knee Crutch Assembly	9A144001 9A144002 9A144003 9A144004	Restrictions - Do not use simultaneously with 9A21300X, Caster Base Assembly. <i>Intended Use</i> - To provide support for the knee and legs for pelvic examinations.
Side Rail Assem- bly	9A157001	Intended Use - To provide patient security.

Accessory Name	Order Number	Restrictions / Intended Use
Fixed Armboard Assembly	9A179002	Restrictions - Do not use with any other accessory on the same side of table. Use caution when positioning this accessory and positioning table. <i>Intended Use</i> - To hold the arm in a secure position, while the table is in a flat position, as the fixed armboard has limited up and down movement and some side-to-side movement.
Welch Allyn Hanger	9A182001	<i>Intended Use</i> - To hold a Welch Allyn light on the table. Used with a 9A205 Base Rail.
Round Headrest Assembly	9A198001	<i>Intended Use</i> - To provide access to the patient's head during an examination / procedure.
Procedure Head- rest Assembly	9A199001	<i>Intended Use</i> - To provide access to the patient's head during an examination / procedure.
Base Rail Assembly	9A205001 9A205002	Restrictions - Do not use simultaneously on the same side of table with 9A22700X, Seat Rail Assembly. Intended Use - To provide a secure and stationary support for the attachment of other accessories (9A77 IV Pole, 9A78 Vision Block screen, 9A83 Instrument Tray, 9A182 Welch Allyn Bracket) of which the multiple attachment of these accessories, at the same time, is not recom- mended.
Knee Crutch Assembly	9A208001 9A208002	Restrictions - Do not use simultaneously with 9A21300X, Caster Base Assembly. Intended Use - To support the knee and legs for pelvic examina- tions.
Caster Base Assembly	9A213001	Restrictions - Do not use simultaneously with 9A14400X and 9A20800X, Knee Crutch Assembly. Intended Use - To attach to the examination table to allow for mobility of the examination table.
Restraint Belts	9A214001 9A214002	<i>Intended Use</i> - To confine the patient to the table during an examination / general procedure.
One Arm Wrist Rest	9A221001 9A221004	Intended Use - To provide a headrest with one back mechanism which is less maneuverable but provides more room in the back of the chair during examinations / procedures. The attached wrist rest provides wrist support during an examination / pro- cedure while the chair is in a flat position.
Seat Rail Assembly	9A227001 9A227002	Restrictions - Do not use simultaneously on same side of table with 9A20500X, Base Rail Assembly. Intended Use - To provide a secure support for the attachment of Midmark accessories to the seat section of the table.
Siderail Socket Accessory	9A229001	Intended Use - To allow Midmark accessories to be secured onto the 9A227, Seat Rail.
Foot Control Assembly	9A235001	<i>Intended Use</i> - To position the table before, dur- ing, or after an examination or general procedure by using the foot.

Accessory NameOrder NumberRestrictions / Intended UseInstrument Tray (double arm)9A267001 <i>Restrictions</i> - Must be removed or rotated clear of moving parts before positioning table. Total weight allowed to be placed on tray is not to exceed 15 lbs (6.8 kg), centered on tray. Do not use more than one 9A267, Instrument Tray simultaneously on same side of table. Intended Use - To hold instru- ments used during an examination or general pro-
(double arm) moving parts before positioning table. Total weight allowed to be placed on tray is not to exceed 15 lbs (6.8 kg), centered on tray. Do not use more than one 9A267, Instrument Tray simultaneously on same side of table. Intended Use - To hold instru-
cedure. Used with a 9A272 Base Rail.
Instrument Tray (single arm) 9A267002 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A2670 (single arm) 9A267 (single arm) 9A2670 (single arm) 9A267 (single arm) 9A272 (single arm) 9A273 (single arm) 9A273 (single arm) 9A273 (single
Instrument Tray 9A268001 Intended Use - To provide additional tray(s) for (only) 9A267 Instrument Tray. Used with a 9A267 Instrument Tray.
Upholstery Kits 002-0485-xx 002-0486-xx xx - specifies color; call for avail- able colors.

Patient Positioning

The table is designed to accommodate the following examination positions:

- Flat Table Position
- Chair Position
- Lithotomy (Pelvic) Position

OPERATOR MAINTENANCE

Preventive Maintenance

Little routine maintenance is required other than periodic inspection of the electrical cord to ensure it is free of cuts or damage, periodic inspection of the mechanical functions to ensure satisfactory operation, and a periodic check of fasteners to ensure they are present and tightened securely.

Oil moving parts (such as back, tilt, and foot hinge, treatment pan slides, and the stirrup index button) with a light machine oil to assure quiet, smooth, and dependable operation. Stirrup bars and accessory rails can be lubricated using common household furniture wax.

Have your authorized dealer inspect your table every six months.

Operation

Operator Maintenance

Care of Table

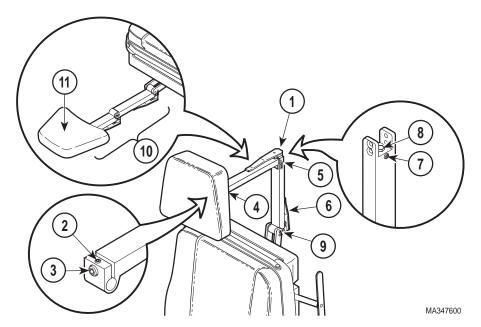


EQUIPMENT ALERT

The upholstery material that covers the top of the table is resistant to most medicinal-type stains, but may be damaged by solvents and dyes. Remove any fluids which are spilled on the upholstery immediately.

Clean the table weekly, wiping the painted metal and plastic surfaces with a clean, soft cloth. If desired, mild cleaners may be used. Periodic applications of common furniture wax will ease cleaning and help maintain the finished luster of the table.

Headlock Assembly Adjustment



The wrenches necessary to adjust the headlock assembly have been provided. These wrenches are in a bag which has been attached to the headlock assembly of the table. Remove this bag of wrenches before using the table and store

Operator Maintenance these tools with the Installation & Operation Manual.

WARNING

Failure to adjust the headlock assembly to specifications could result in a failure during a procedure. This could cause severe personal injury to a patient or the need to terminate the procedure.

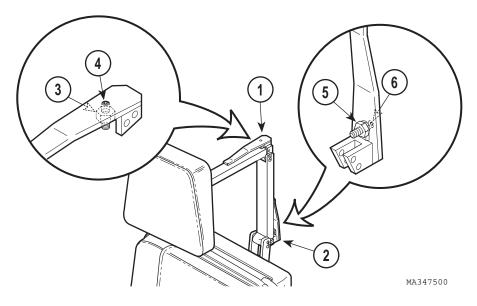
NOTE

The maximum force required to unclamp a locking handle should be 17 lbs. (7.7 kgs) and the maximum force required to clamp a locking handle should be 35 lbs. (15.8 kgs).

- 1. Unlock upper lock handle (1); then loosen setscrew (2).
- 2. Tighten adjusting screw (3) slightly; then lock upper lock handle (1). Repeat this step until joints (4 and 5) have the strongest possible holding power, but operation of upper lock handle (1) is not to difficult. Then, tighten setscrew (2).
- 3. Unlock lower lock handle (6); then loosen setscrew (7).
- 4. Tighten adjusting screw (8) slightly; then lock lower lock handle (6). Repeat this step until joint (9) has the strongest possible holding power, but operation of lower lock handle is not too difficult. Then, tighten setscrew (7).
- 5. Lower Back Down function all the way down.
- 6. Position the headlock assembly (10) in fully extended position. Then, place a 45 lb. (20.4 kg) weight on the center of headrest (11).
- 7. Observe. The headlock assembly (10) should support the test weight without drifting downward. If not, repeat the entire adjustment procedure. If headlock assembly (10) does not meet test standards, do not use the headlock assembly.

Operator Maintenance

Headlock Handle Stops Adjustment



If either the upper lock handle (1) or the lower lock handle (2) fails to lock by "going over center" or if there is not enough finger clearance between the head-lock assembly and the handle, perform the following adjustment:

- 1. Loosen nut (3).
- Push on upper lock handle (1) until it reaches a point where the upper lock handle wants to lock itself by going over center; then allow the upper lock handle to go over center a few degrees. Hold the upper lock handle (1) in this position and adjust stop screw (4) so the upper lock handle will be forced to stop in this position each time it is locked. Then, tighten nut (3).
- 3. Loosen nut (5).
- 4. Push on lower lock handle (2) until it reaches a point where the lower lock handle wants to lock itself by going over center; then allow the lower lock handle to go over center a few degrees. Hold the lower lock handle (2) in this position and adjust stop screw (6) so the lower lock handle will be forced to stop in this position each time it is locked. Then, tighten nut (5).

CALLING FOR SERVICE

If you are having a problem or have a question, refer to the inside front cover of this manual and call your dealer. Make sure that you have the information that is highlighted on the inside front cover of this manual available. If you can't re-

Operator Maintenance

> Calling For Service

solve your question or problem with your dealer, call the following number:

1-800-Midmark (1-800-643-6275) 8:00 a.m until 5:00 p.m. (Eastern Standard Time in the U.S.) Monday thru Friday, except for standard U.S. holidays.

SPECIFICATIONS

Patient Weight (Maximum)	
Weight of Table	
Back Section Range	
-	
Table Top Height Range	
	(55.9 ± 1.3 cm to 101.6 ± 2.5 cm)
Foot Section Range	0° (horizontal) to -90° ± 5°
Table Top Tilt Range	0° (horizontal) to +30° ± 5° (foot up)
Dimensions:	
Upholstered top	27.0 in. wide x 69.25 in. long
	(68.6 cm x 175.9 cm)
With Headrest Extended	82.75 in. (210.2 cm)
Electrical Requirements	115 VAC nominal (126 VAC maximum - 110
•••••	VAC minimum), 60 HZ, 12 amps maximum
Paper Rolls	Can accept two standard paper rolls of
	18 in. x 3.0 in. (45.7 cm x 7.6 cm)
Duty Cycle	15 seconds on / 5 minutes off (motor run
	time)
Power Cord	extends 70 in. (Minimum) from table. 12
	AWG / 3 conductor, SJT grey jacketed
	junior hard service with hospital grade
	grounding type plug.
Certifications:	UL-544 Listed Medical Equipment
	CSA Standard C22.2 #125
	ISO-9001 Certified

Operator Maintenance

Calling For Service

Specifications

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.

Limited Warranty

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, EXPRESS 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.

SF-1487 REV. A1

Limited Warranty

NOTES:

Limited Warranty





© Midmark Corporation - 1998

 Midmark Corporation, Versailles, Ohio
 45380
 U.S.A.

 937-526-3662
 FAX:
 937-526-5542

003-0885-00 Rev. F (2/03)