

MIDMARK®

Installation And Operation Manual



Model 491 Examination Chair

TABLE OF CONTENTS

<u>SUBJECT</u>	<u>PAGE</u>
Important Instructions	4
Use of Warranty	4
Introduction & Installation	4
Unpacking	4
Installation	4
Assembly	5
Electrical Requirements	5
Operation of Table Power Features	5
Footswitch	5
Control Panels	5
Patient Positioning	5
Adjustment of Chair Height	5
Position of Reclining Back	5
Auto Return	5
Operation of Non-Power Features	6
Chair Top Rotation	6
Retractable Arms	6
Care of Chair	6
Care of Upholstery	6
Care of Painted Metal Surfaces	6
Care of Moving Parts	6
Care of Tread on Base and Step	6
Power System Maintenance	6
Warranty	6

IMPORTANT INSTRUCTIONS

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

- 1) Read this manual before installing or operating your equipment.
- 2) It is the responsibility of the customer to assure that appropriate personnel are informed of the contents of this manual.
- 3) Be sure that you understand the instructions contained in this manual before attempting to install or operate this equipment.
- 4) This manual should remain permanently affixed to the equipment.

Throughout this manual are "Notes", "CAUTIONS", and "**DANGER**" warnings that call attention to particular procedures. The items are used as follows:

NOTE

A note is used to amplify an operating procedure, practice, or condition.

CAUTION

A CAUTION IS USED FOR AN OPERATING PROCEDURE, PRACTICE, OR CONDITION, WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN EQUIPMENT DAMAGE.

DANGER

A DANGER IS USED FOR AN OPERATING PROCEDURE, PRACTICE, OR CONDITION, WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY.

For your personal safety and that of your patients, all **DANGER** warnings are repeated here. Become thoroughly familiar with them and observe them at all times.

- 1) **USE 115 VOLT - 60 HZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**
- 2) **DO NOT USE THIS TABLE IN AN EXPLOSIVE OR OXYGEN - ENRICHED ATMOSPHERE. USING THE TABLE IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY AND EQUIPMENT DAMAGE.**
- 3) **IF THE TABLE MALFUNCTIONS, IMMEDIATELY REMOVE YOUR FOOT FROM THE FOOTSWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE CHAIR.**

- 4) **KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE TABLE.**
- 5) **KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING CHAIR POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**
- 6) **FAILURE TO PERFORM A PERIODIC INSPECTION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**
- 7) **ALL EXPOSED METAL PARTS OF TABLE ARE ELECTRICALLY GROUNDED. WHEN PERFORMING A CAUTERIZATION OR SIMILAR TREATMENT, PATIENT MUST BE INSULATED FROM THE METAL PORTIONS OF THE CHAIR BY NONCONDUCTIVE MATERIAL. FAILURE TO DO SO COULD RESULT IN ELECTRICAL SHOCK OR BURNS TO THE PATIENT.**

USE OF WARRANTY

In the event of equipment failure, immediately contact the authorized Midmark dealer who sold you the equipment. He will make the necessary warranty repairs. Do not attempt to disassemble or repair defective or inoperative components or substitute parts of another manufacturer. Such action will void the warranty and may render operation of the equipment unsafe.

INTRODUCTION AND INSTALLATION

This manual covers complete instructions for the installation, operation, and normal care of the Model 491 chair.

The height of the chair, the angle of the chair top, and the upper section of the chair top are easily adjusted by the use of electro mechanical actuators. Height of the chair can be adjusted from 22" to 31". The angle of the chair top may be varied from an upright chair position of 93° to a reclining position of 2° off horizontal.

UNPACKING: To avoid damaging the chair, do not use a knife or other sharp object when opening the carton. Cut the two bands and remove the power cord from its covering before attempting to lift chair off the skid. Lift the chair by grasping its back and foot framework, not by its arms or headrest.

INSTALLATION: Position the chair in the exam room so that sufficient clearance is always maintained during operation. Do not position table in a position which creates a pinch point or a collision situation.

ASSEMBLY: Only the headrest requires assembly. Remove headrest assembly from packing material. Remove the four 1/4-20 screws from the back of the chair, place headrest assembly into position over screw holes and replace screws.

DANGER

CAREFUL ATTENTION SHOULD BE GIVEN TO ENSURE SCREWS ARE TIGHTENED PROPERLY TO AFFIX THE HEADREST ASSEMBLY.

USE 115 VOLT - 60 HZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

DO NOT USE THIS TABLE IN AN EXPLOSIVE OR OXYGEN - ENRICHED ATMOSPHERE. USING THE TABLE IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY AND EQUIPMENT DAMAGE.

ALL EXPOSED METAL PARTS OF TABLE ARE ELECTRICALLY GROUNDED. WHEN PERFORMING A CAUTERIZATION OR SIMILAR TREATMENT, PATIENT MUST BE INSULATED FROM THE METAL PORTIONS OF THE CHAIR BY NONCONDUCTIVE MATERIAL. FAILURE TO DO SO COULD RESULT IN ELECTRICAL SHOCK OR BURNS TO THE PATIENT.

ELECTRICAL REQUIREMENTS: The electrical rating for the Model 491 Chair is 115 VAC, 60 HZ, 12 AMP (6 AMP chair and 6 AMP receptacle). The three-pronged grounding plug on the table power cord must be inserted into a matching three-pronged, grounded, correctly polarized 115 volt receptacle.

OPERATION OF TABLE POWER FEATURES

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

NOTE

This equipment is not designed for continuous operation. If the unit is operated continually, a thermal overload switch will shut off the chair motors. If this occurs, immediately remove your foot from the footswitch, the overload switch will automatically reset after the motor cools.

DANGER

IF THE TABLE MALFUNCTIONS, IMMEDIATELY REMOVE YOUR FOOT FROM THE FOOTSWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE CHAIR.

FOOTSWITCH: The footswitch is designed for operator comfort. A firm stance may be maintained by placing your foot onto footswitch sections. By rocking your foot, you will activate movement of the table.

CONTROL PANELS: Two control panels are attached to the chair back, one on each side, just above the arm assembly. All functions can be activated by depressing the panel on the desired command buttons.

DANGER

KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE TABLE.

KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING CHAIR POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

PATIENT POSITIONING

ADJUSTMENT OF CHAIR HEIGHT: To raise the chair seat height with either the FOOT CONTROL or the CONTROL PANELS, depress the left side of the foot control chair pedal marked "TABLE UP" or the control panels button marked "BASE UP" and hold down until the desired position is obtained or until the maximum seat height is reached.

To lower chair seat height, depress the right side of the foot control chair pedal marked "TABLE DOWN" or depress the control panels button marked "BASE DOWN" and hold down until the desired position is obtained or until the chair reaches its minimum height.

POSITIONING OF RECLINING BACK: To lower the back section, depress either the foot control back pedal or the control panel button marked "BACK DOWN" and hold down until the desired position is obtained or the back section reaches its lowest height (flat position).

To raise the back section, depress either the foot control back pedal or the control panel button marked "BACK UP" and hold down until the desired position is obtained or the back section reaches its maximum height (chair back in seat position).

NOTE

If for any reason the "AUTO RETURN" function must be stopped while it is in progress, depress the red control panels button marked "STOP" or any other chair switches **or** buttons in an emergency.

AUTO RETURN: The auto return function automatically lowers the seat height to its minimum height while simulta-

neously moving the back section into the seat position, creating a sitting, patient entry or exit position. To actuate the auto return function, depress the control panels button marked "AUTO RETURN".

OPERATION OF NON POWER FEATURES

CHAIR TOP ROTATION: The chair top may be rotated 330° and has a built in stop to prevent continuous rotation. Rotate and position the table top as desired; then to lock the table top in that position and prevent rotation, push upward on the hand lever, located on the side of the table under the seat section. To release the table top so that it may be rotated into a new position, pull the hand lever downward.

RETRACTABLE ARMS: The chair arms have independent movement and may be raised to provide closer access to patient or to permit better entrance or exit for the patient.

CARE OF CHAIR

CARE OF UPHOLSTERY: The upholstery material used to cover the top of the chair is resistant to most medicinal-type stains, but may be damaged by solvents and dyes. Regular care should be maintained by daily wiping with a damp cloth or sponge and periodic cleaning with a mild soap and water solution.

Any fluid spilled on the upholstery should be removed as quickly as possible. In the case of stain, attempt to remove it with soap and water.

CARE OF PAINTED METAL SURFACES: All painted metal surfaces should be wiped with a clean, soft cloth weekly, and periodic applications of paste wax made to all surfaces to preserve the finished luster.

CARE OF MOVING PARTS: All moving parts such as the back hinge and foot extension pivots should be oiled occasionally with light machine oil to help ensure quiet, dependable operation.

CARE OF TREAD ON BASE AND STEP: The protective tread material may be cleaned periodically by a light scrubbing with mild soap and water.

POWER SYSTEM MAINTENANCE

DANGER

FAILURE TO PERFORM A PERIODIC INSPECTION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

Little routine maintenance is required other than a periodic inspection of the electrical cords to make sure they are free of cuts or damage and clear of moving parts. Due to

the mechanical-electrical nature of this equipment, periodic inspections at six month intervals by a qualified service technician are recommended.

WARRANTY

LIMITED WARRANTY - ALTERNATE CARE PRODUCTS

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, 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.

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