Barrier-Free™ Bariatric Power Treatment Table

Model Numbers:

244 -001



Service and Parts Manual



FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

GENERAL INFORMATION General Information

Symbolsiii Ordering Partsiii Model / Serial Number Locationiii Weights, Dimensions, **Electrical Specifications iv** Range of Motion v Model Identification / Compliance Chart v Scheduled Maintenance vi Warranty Information vii

Section A

OPERATION & TROUBLESHOOTING

Power To The Table	A-2
Base Up / Down	A-7
Tilt Up / Down	A-15
Back Up / Down	A-22

m Section

COMPONENT TEATING & DEDI ACEMENT

<u>TESTING & REPLACEMENT</u>	
Fuses	B-2
Power Inlet	B-3
Base Cover Limit Switches	B-4
Control Box	B-6
Lower Actuators	B-8
Back Actuators	B-10

ACCESS PROCEDURES \bigcirc Removing & Installing: Section Upholstery C-2 Bottom Cover C-3 Base Cover C-4 Seat Section Cover C-9

Ω Section

Ш

Section



EXPLODED VIEWS / PARTS LISTS

244-001 E-2
Upholstery E-3
Upper Frame E-4*
Back Actuator E-5
Hand Control E-6
Base Covers &
Leveling Feet E-7
Lower Actuators E-8
Control Box & Power Inlet E-9
Base Cover Limit Switches E-10
Base Frame E-11
Shipping Skid E-12

* Indicates multiple pages due to a serial number break for the parts illustration

Symbols

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.



Indicates that the component the check mark appears beside should be tested before replacing it. In Section A, test the components in the order indicated. (ex. **1st** \checkmark then, **2nd** \checkmark)

Refer to Section B for component testing procedures.

These symbols are used throughout this manual to represent the operational status of table functions and components.



Indicates the function / component is working properly. No action required.



Indicates the function / component is working, but a problem exists.



Indicates the function / component is not working at all.

Ordering Parts

The following information is required when ordering parts:

- Serial number & model number
- Part number for desired part. [Refer to Exploded Views / Parts Lists section]

<u>Non-warranty</u> parts orders may be faxed to Midmark using the Fax Order Form in the back of this manual.

For warranty parts orders, call Midmark's Technical Service Department with the required information.

Hours: 8:00 am until 5:00 pm EST [Monday - Friday] Phone: 1-(800)-Midmark

Model / Serial Number Location



Weights, Dimensions, Electrical Specifications

Patient Weight (Maximum)	850 lbs (385 kg)
w/Caster Base Accessory	650 lbs (295 kg)
Paper Roll (maximum size):	24 in. long x 6 in. diameter (61cm x 15.2 cm)
Range of Motion & Dimensions	[See illustration]
Weight of Table	340 lbs (154 kg)
w/packaging & skid	400 lbs (181 kg)
Power Cord:	8 ft. (243.8 cm) long
Electrical Requirements:	[See Compliance Charts]
Hand Control Voltage:	5 VDC, SELV (Safety Extra Low Voltage)
Hand Control Voltage:	5 VDC, SELV (Safety Extra Low Voltage)
Hand Control Voltage: Fuses: Located at power cord inlet:	5 VDC, SELV (Safety Extra Low Voltage) 6.3A, 250V, Slo-Blo, 5 x 20 mm
Hand Control Voltage: Fuses: Located at power cord inlet: Duty Cycle (motor run time):	5 VDC, SELV (Safety Extra Low Voltage) 6.3A, 250V, Slo-Blo, 5 x 20 mm Intermittent Operation [1 minute ON / 9 minutes off]
Hand Control Voltage: Fuses: Located at power cord inlet: Duty Cycle (motor run time): Classifications:	5 VDC, SELV (Safety Extra Low Voltage) 6.3A, 250V, Slo-Blo, 5 x 20 mm Intermittent Operation [1 minute ON / 9 minutes off] Class 1, Type B Applied Part
Hand Control Voltage: Fuses: Located at power cord inlet: Duty Cycle (motor run time): Classifications: Protection against ingress of fluids:	5 VDC, SELV (Safety Extra Low Voltage) 6.3A, 250V, Slo-Blo, 5 x 20 mm Intermittent Operation [1 minute ON / 9 minutes off] Class 1, Type B Applied Part Ordinary Equipment

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





MA7895i

Range of Motion



Model Identification / Compliance Chart - 244

Fire Code Ratings

All Midmark <u>Standard</u> Upholstery sets comply with: California Bureau of Home Furnishing <u>Technical Bulletin 117</u>

	Serial			plies To:			Electrical Ratings:			
Model	Description	Number Prefix	UL 60601-1	CAN/CSA 22.2, #601.1-M90	EN 60601-1-2 (EMC)	EN 60601-1	CE	VAC +/- 10%	Amps	Cycles (Hz)
244-001	Bariatric Treatment Table	n/a	x	x				120	2.5	60

	Bar	Scheduled Maintenance iatric Power Treatment Table	
Interval	Inspection or Service	Service, Adjust, Repair, and / or Replace as Required (Refer to appropriate S&P or Quick Reference Guide)	244
		Clean upholstery with 20:1 diluted bleach solution (water:bleach).	×
	Cleaning	Wipe painted metal & plastic surfaces with a clean soft cloth and mild cleaner.	>
Weekly		(NOTE: Periodic application of common furniture wax will ease cleaning, and maintain the luster of the surfaces).	<
	Obvious Damage	Visually inspect components for damage that could cause problems during operation or unsafe operation.	×
Semi-Annually		Check all mechanical functions using the hand control. Repeat using the foot control when present.	×
		Table should move smoothly & quietly when any function is activated.	×
	Mechanical Operation	Check base cover limit switches for proper operation.	
		A. Press down firmly on the base cover. B. Activate any table function with the hand / foot control.	×
		If table function does <u>no</u> t move, limit switches OK. If table function <u>does</u> move, inspect / test limit switches.	
	Labels / Decals	Replace any missing or illegible labels.	×
	Hardware	All fasteners must be present and fastened securely.	×
	Electrical Svetam	Inspect power cord and all wiring for damage.	×
	בופנוונמו טאאומוו	Be sure all electrical connections are tight.	×
Date of Servic	ce:		Model
Location: Service Techr	nician.		Serial Number:

Warranty Information

SCOPE OF WARRANTY

Midmark Corporation ("Midmark") warrants to the original purchaser its new Alter-nate 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, acci-dent, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark "Installation" and or "Installation / Oper-ation Manual for this applicable product. (3) products considered to be of a consum-able 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 defec-tive parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequen tial damages or delay, including, but not limited to, dam-ages 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 REPLACE MENT OF DEFECTIVE PARTS.

SF-1487 REV. A1

Additional Information

Failure to follow the guidelines listed below will void the warranty and/or render the table unsafe for use.

- If a malfunction is detected, do not use the table until necessary repairs are made.
- Do not attempt to disassemble table, replace components, or perform adjustments unless you are a Midmark authorized service technician.
- Do not use another manufacturer's parts to replace malfunctioning components. Use only Midmark replacement parts





Function / System	<u>Page</u>
Power To The Table	A-2
Base Up / Down Function	A-7
Tilt Up / Down Function	A-15
Back Up / Down Function	A-22

Power To The Table

Facility Supply Voltage

With the table's power cord properly connected, facility supply voltage (*115 VAC*) is supplied thru the cord to the power inlet.

Power Inlet (Power Switch & Fuses)

Current flows thru two fuses in the power inlet to the power switch. When the power switch is turned ON (I), current flows to the control box.

Control Box

Line voltage (115 VAC) is supplied to the control box thru the power inlet. (An indicator light on the control box illuminates when power is present). The control box reduces the voltage and supplies approximately 5 VDC to the base cover limit switch circuit.

Base Cover Limit Switch Circuit

Note

The base cover limit switches prevent injury and/or equipment damage by disabling <u>all table functions</u> if any pressure is applied to the base cover.

The control box supplies approximately 5 VDC to the four base cover limit switches. During normal operating conditions, current flows thru all four normally-closed switches, then to the hand control.

If pressure is applied to the spring-loaded base cover, one or more of the limit switches will be tripped. When any of the limit switches are tripped, there is no current supplied to the hand control.

Hand Control

With the hand control cord properly connected, 5 VDC is supplied to the hand control thru the four base cover limit switches. This current continuously flows back to the control box thru seperate wires for each table function. When a function is selected from the hand control, this "signal voltage" is removed from the wire corresponding to the selected function. When the signal voltage is removed, the control box activates the selected function.

Troubleshooting [Power to the Table]

<u>Problem</u>	Page
No table functions will operate	A-3



A-2

All

Power To The Table - continued Problem: No table functions will operate. Refer To: Page Limit Switch Circuit Test A-4 Fuse Replacement B-2



Serial Numbers:

<u>Refer To:</u>	Page
Supply Voltage Test	A-5
Signal Voltage Test	A-6

Step 1: Unplug hand control cord from table.



Serial Numbers:

Power To The Table - continued

Limit Switch Circuit Test



Caution The power cord <u>must</u> be plugged in, and the power switch must be ON (I) during this test.

Step 2: Set meter to read DC voltage.



5 VDC (approximately) indicates:

Limit Switch Circuit* - OK (* includes fuses & power switch)

Required Action: Perform Signal Voltage Test #1.

0 VDC indicates: Limit Switch Circuit is malfunctioning.

Required Action: Perform Supply Voltage Test.

Power To The Table





Page

<u>Refer To:</u>	Page
Control Box Replacement	B-7
Bottom Cover Removal	C-3
Exploded Views / Part Numbers	E-1



Caution The power cord <u>must</u> be plugged in, and the power switch <u>must</u> be ON (I) during this test.

Power To The Table - continued

Signal Voltage Test

[Base Up / Down Function]

No Base UP and/or No Base DOWN:

Tilt function does not work A-8

Tilt function - OK..... A-9

When Base Up or Base Down is selected, the table tilts up or down A-10

Table drifts down A-11

Noisy actuator(s) A-12

Troubleshooting

Problem

Base Up / Down Function

Power To The Hand Control

[Refer to 'Power To The Table' (page A-2), for description of current flow to the hand control].

Signal Voltage

The hand control continuously supplies signal voltage *(approx. 5 VDC)* to the control box thru seperate wires for each function.

Base Up Operation

When the Base Up button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Base Up function is removed, the control box supplies 24 VDC to both lower actuators.

The two lower actuators extend and raise the table.

Both actuator motors run until:

- 1. Hand control button is released.
- 2. Both actuators are fully extended. (internal limit switches - not serviceable)

Base Down Operation

Models:

Serial Numbers:

When the Base Down button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Base Down function is removed, the control box supplies 24 VDC to <u>both</u> lower actuators.

The two lower actuators retract and lower the table.

Both actuator motors run until:

- 1. Hand control button is released.
- 2. Both actuators are fully retracted. (internal limit switches - not serviceable)

All





A-7

Page



Base Up / Down - continued

Problem: No Base Up and/or No Base Down. (Tilt function - OK)

Operation & Troubleshooting

Refer To: Page SIgnal Voltage Test: Base Function A-14











A-11



Base Up / Down - continued

Step 1: Remove bottom cover.

Models:

Serial Numbers:

All

Control Box / Lower Actuator Test

Caution The power cord <u>must</u> be plugged in, and the power switch must be ON (I) during this test.

Operation & Troubleshooting

<u>Refer To:</u>	<u>Page</u>
Signal Voltage Test: Base Function	A-14
Lower Actuator Replacement	B-9
Bottom Cover Removal	C-3
Exploded Views / Parts List	E-8





Keep the area around the table clear! The table may move when performing this step.

Step 3: Press the BACK UP button briefly, then release. Press the BACK DOWN button breifly, then release.

> **Does lower actuator move when buttons are pressed?** If YES, lower actuator is OK. If NO, replace actuator.

If <u>both</u> lower actuators are OK... Go to Step 5.

Step 4: Connect lower actuator wire (1) to control box wire (3). Then, repeat Step 3.

Step 5: Reconnect actuator wires (1, 2, & 3) to corresponding control box wires.

Back Down

MA688700i

Back Up

Step 6: Perform *Signal Voltage Test: Base Function.*





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No Tilt UP and/or No Tilt DOWN:

Troubleshooting [Tilt Up / Down Function]

Tilt Up / Down Function

Power To The Hand Control

[Refer to 'Power To The Table' (page A-2), for description of current flow to the hand control].

Signal Voltage

The hand control continuously supplies signal voltage (approx. 5 VDC) to the control box thru seperate wires for each function.

Tilt Up Operation (Foot-end UP)

When the Tilt Up button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Tilt Up function is removed, the control box supplies 24 VDC to both lower actuators.

Lower actuator (1) retracts, and lower actuator (2) extends, raising the foot-end of the table.

Both actuator motors run until:

- 1. Hand control button is released.
- 2. Lower actuator (1) is fully retracted. Lower actuator (2) is fully extended. (internal limit switches - not serviceable)

Tilt Down Operation (Foot-end DOWN)

When the Tilt Down button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Tilt Down function is removed, the control box supplies 24 VDC to both lower actuators.

Lower actuator (1) extends, and lower actuator (2) retracts, lowering the foot-end of the table.

Both actuator motors run until:

Models:

Serial Numbers:

- 1. Hand control button is released.
- 2. Lower actuator (1) is fully extended. Lower actuator (2) is fully retracted. (internal limit switches - not serviceable)

All



Problem





Page



Tilt Up / Down - continued

Problem: No Tilt Up and/or No Tilt Down. (Base function - OK)

Operation & Troubleshooting











Refer To:	<u>Page</u>
Signal Voltage Test: Tilt Function	A-21
Lower Actuator Replacement	B-9
Bottom Cover Removal	C-3
Exploded Views / Parts List	E-8

Step 1: Remove bottom cover.

Tilt Up / Down - continued

Control Box / Lower Actuator Test



Caution The power cord must be plugged in, and the power switch must be ON (I) during this test.

Step 2: Unplug back acutator wire (3). Connect lower actuator wire (2) to control box wire (3).



MA688700i

Back Up

All

Models:

Serial Numbers:

Caution Keep the area around the table clear! The table may move when performing this step.

Step 3: Press the BACK UP button briefly, then release. Press the BACK DOWN button breifly, then release.

> Does lower actuator move when buttons are pressed? If YES, lower actuator is OK. If NO, replace actuator.

If both lower actuators are OK ... Go to Step 5.

Back Down

Step 4: Connect lower actuator wire (1) to control box wire (3). Then, repeat Step 3.

> **Step 5:** Reconnect actuator wires (1, 2, & 3) to corresponding control box wires.

Step 6: Perform Signal Voltage Test: Tilt Function.

A-20

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Tilt Up / Down



Refer To:	<u>Page</u>
Control Box Replacement	B-7
Bottom Cover Removal	C-3
Exploded Views / Parts Lists	E-1

Step 2: Set meter to read DC voltage.

[Meter should indicate approx. 5 VDC, when hand control button is released. If not, refer to Limit Switch Circuit Test]

When specified hand control button is pressed, does voltage drop to approx. 0.7 VDC? If YES, replace control box. If NO, replace hand control.

Step 5: Move red probe to GREEN wire. Press Tilt Up button on hand control. Check meter as button is pressed & released.

All

Hand Control Cord Inlet

Models:

Serial Numbers:

MA688900i

Step 3: Place black probe on

GREY wire (common).



Back Up / Down Function

Power To The Hand Control

[Refer to 'Power To The Table' (page A-2), for description of current flow to the hand control].

Signal Voltage

The hand control continuously supplies signal voltage (approx. 5 VDC) to the control box thru seperate wires for each function.

Back Up Operation

When the Back Up button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Back Up function is removed, the control box supplies 24 VDC to the back actuator.

Models:

Serial Numbers:

All

The back actuator extends, raising the back section.

Back actuator motor runs until:

- 1. Hand control button is released.
- 2. Back actuator is fully extended. (internal limit switch - not serviceable)

Back Down Operation

When the Back Down button is pressed, the circuit for this function opens, stopping the flow of signal voltage to the control box. When the signal voltage for the Back Down function is removed, the control box supplies 24 VDC to the back actuator.

The back actuator retracts lowering the back section.

Back actuator motor runs until:

- 1. Hand control button is released.
- 2. Back actuator is fully retracted. (internal limit switch - not serviceable)



Troubleshooting

Problem

[Back Up / Down Function]

No Back UP and/or No Back DOWN:

Base & Tilt functions do not work A-3

Base & Tilt functions - OK A-23 Back Drifts Down A-24

Noisy Actuator A-24

Page

Control Box

MA687800i **Back Actuator**

Δ-22

Back Up / Down

Back Up / Down - continued

Problem: No Back Up and/or Back Down function. (Base & Tilt functions - OK)

> Caution The power cord must be plugged in, and the power switch must be ON (I) during this test.

Step 1: Remove bottom cover.



Serial Numbers:

Operation & Troubleshooting

Refer To:	Page
Signal Voltage Test: Back Function	A-25
Back Actuator Replacement	B-11
Bottom Cover Removal	C-3

Step 2: Unplug two lower acutator wires (1 & 2). Connect back actuator wire (3) to control box wire (2).



<____

MA688800i

Base Up

Caution Keep the area around the table clear! The table may move when performing this step.

Step 3: Press the BASE UP button briefly, then release. Press the BASE DOWN button breifly, then release.

> If back actuator <u>moves</u>... Go to Step 4.

If back actuator does <u>not</u> move... Perform *Wire Harness Extension Test.*

Base Down

Step 4: Reconnect actuator wires (1, 2, & 3) to corresponding control box wires.

Step 5: Perform Signal Voltage Test: Back Function.

Back Up / Down

Back Up / Down - continued

Problem: Back section drifts down. -or -Noisy actuator.



Back Up / Down - continued

Caution

Serial Numbers:

Signal Voltage Test: Back Function

The power cord <u>must</u> be plugged in, and the power switch <u>must</u> be ON (I) during this test.

Operation & Troubleshooting

Refer To:	Page
Control Box Replacement	B-7
Bottom Cover Removal	C-3
Exploded Views / Parts Lists	E-1





Back Up / Down - continued

Back Up / Down - continued

Wire Harness Extension Test - continued

Caution The power cord <u>must</u> be plugged in, and the power switch <u>must</u> be ON (I) during this test.

Operation & Troubleshooting

Refer To:	<u>Page</u>
Back Actuator Replacement	B-11
Wire Harness Ext. Replacement	B-12
Exploded Views / Parts List	E-5




<u>Components</u>	Page
Fuses	B-2
Power Inlet	B-3
Base Cover Limit Switches	B-4
Control Box	B-6
Lower Actuators	B-8
Back Actuator	B-10



Fuses

Location



Fuses

LocationB-2

Page

B-2



B-3

Base Cover Limit Switches

Function / Location / Access

NOTE: The base cover limit switches prevent injury and/or equipment damage by disabling all table functions if any pressure is applied to the base cover.

The control box supplies approximately 5 VDC to the four base cover limit switches. During normal operating conditions, current flows thru all four normally-closed switches, then to the hand control inlet.

If pressure is applied to the spring-loaded base cover, one or more of the limit switches will be tripped. When any of the limit switches are tripped, there is no current supplied to the hand control, and no table functions will operate.

If a problem is suspected, refer to Section A: Power To The Table for troubleshooting steps.

Base Cover Limit Switches	<u>Page</u>
Function / Location / Access	B-4
Limit Switch Test	B-5
Wiring Diagrams	D-1
Exploded Views / Part Numbers	E-10



Base Cover Limit Switches - continued

Limit Switch Test



-	·
OL	Limit switch - OK
less than 5 $oldsymbol{\Omega}$	Replace switch

Meter Reading	Status	Required Action
OL		Replace switch
less than 5 $oldsymbol{\Omega}$		Limit switch - OK



Control Box

Function / Location

NOTE: If a problem is suspected, refer to Section A for troubleshooting steps.

Line voltage (115 VAC) is supplied to the control box thru the two fuses in the power inlet. (An indicator light on the control box illuminates when power is present). The control box reduces the voltage and supplies approximately 5 VDC to the base cover limit switch circuit.

During normal operating conditions, current flows thru all four normally-closed switches, then to the hand control.

With the hand control cord properly connected, current continuously flows back to the control box thru seperate wires for each table function. When a function is selected from the hand control, this "signal voltage" is removed from the wire corresponding to the selected function.

When the signal voltage is removed, the control box activates the selected function and supplies 24 VDC to the appropriate actuator(s).





Control Box

Control Box

Models:

Serial Numbers:



Lower Actuators

Function / Location

NOTE: If a problem is suspected, refer to Section A for troubleshooting steps.

Under normal operating conditions, the hand control continuously supplies 5 VDC to the control box thru seperate wires for each table function. When a function is selected from the hand control, this "signal voltage" is removed from the wire corresponding to the selected function.

When the signal voltage is removed, the control box activates the selected function and supplies 24 VDC to the appropriate actuator(s).

Both actuator motors run until:

- 1. Hand control button is released.
- 2. Actuators reach their max. / min. limits (internal limit switches - not serviceable)

The lower actuators work in conjunction with each other to achieve the selected function. *(See below)*

Function Base UP:	Action Both lower actuators extend
Base Down:	Both lower actuators retract
Tilt Up:	Lower actuator (1) retracts Lower actuator (2) extends
Tilt Down:	Lower actuator (1) extends Lower actuator (2) retracts

Lower Actuators	<u>Page</u>
Function / Location	B-8
Replacement	B-9
Wiring Diagrams	D-1
Exploded Views / Part Numbers	E-8



All

Models:

Serial Numbers:

Bottom Cover Removal C-3

Refer to:

Lower Actuators - continued

Replacement



Page

Back Actuator

Function / Location

NOTE: If a problem is suspected, refer to Section A for troubleshooting steps.

Under normal operating conditions, the hand control continuously supplies 5 VDC to the control box thru seperate wires for each table function. When a function is selected from the hand control, this "signal voltage" is removed from the wire corresponding to the selected function.

When the signal voltage is removed, the control box activates the selected function and supplies 24 VDC to the actuator.

Back actuator motor runs until:

- 1. Hand control button is released.
- 2. Actuator reaches its max. / min. limits

Function	Action
Back UP:	Back actuator extends
Back Down:	Back actuator retracts

Back Actuator	<u>Page</u>
Function / Location	B-10
Actuator Replacement	B-11
Wire Harness Ext. Replacement	B-12
Wiring Diagrams	D-1
Exploded Views / Part Numbers	E-5





Back Actuator - continued

Actuator Replacement

Refer to:	Page
Bottom Cover Removal	C-3



Serial Numbers:

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Back Actuator - continued Refer to: Bottom Cover Removal C-3 Wire Harness Extension Replacement Removal Removal Step 1: Disconnet power to table. Step 2: Disconnect wire harness extension (3) Remove bottom cover. from control box wire (3). Installation Step 1: Connect wire harness extension (3) to control box wire (3). Removal Step 3: Cut all wire ties securing the wire harness extension. Pull harness extension thru up thru base cover. MA693200 Installation Step 2: Route wire harness extension up to the electrical connector channel. Replace all wire ties cut during Removal procedure. Installation Step 3: Go to page B-14 for Step 3. Procedure continued on the following page... All Models:

Page

Back Actuator

Serial Numbers:

Back Actuator - continued

Wire Harness Extension Replacement - continued

Refer to:PageSeat Section Cover Removal C-9



Procedure continued on the following page...



Back Actuator - continued

Wire Harness Extension Replacement - continued



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Removing & Installing:	<u>Page</u>
Upholstery	C-2
Bottom Cover	C-3
Base Cover	C-4
Seat Section Cover	C-9







Bottom Cover

Removal / Installation

Removal

Step 1: Remove seat & back upholstery. Disconnect table power cord.

Removal Caution



The table weighs 340 lbs (154 kg). Use an assistant to perform Step 2.

Step 2: Carefully lay the table onto its side.

Installation Step 2: With the help of an assistant, stand table upright.



Access Procedures

Refer To:	<u>Page</u>
Upholstery Removal / Installation	C-2
Exploded Views / Part Numbers	E-3

Removal

Note: Be careful not to damage wire connections when laying large cover down. Cut cable ties as necessary.

Step 3: To remove large cover: Remove screws.

Carefully lay large cover down.

To remove small cover: Remove screws & small cover.

Installation

Note: Replace any cable ties cut during cover removal.

Step 1: Hold cover(s) in position. Secure with screws.

MA690100i

All



Base Cover

Removal / Installation

ATTENTION: This procedureshould <u>only</u> be performed when replacing the base cover. All components can be accessed by simply removing the bottom cover.

Refer To: Page Bottom Cover Removal / Installation C-3 Exploded Views / Part Numbers E-1





Base Cover - continued

Removal / Installation - continued



All

Models:

Serial Numbers:

C-6

Page

Refer To:

Base Cover - continued

Models:

Serial Numbers:

All

Removal / Installation - continued



Procedure continued on the following page...



Base Cover - continued Removal / Installation - continued

Refer To: Page Exploded Views / Part Numbers E-1





Base Cover © Midmark Corporation 2004 SF-1856 Models:

Serial Numbers:

Seat Section Cover (early models only)

Removal / Installation







Wiring Diagrams

<u>Model</u>	Page
244	D-2



Wiring Diagrams





Exploded Views & Parts Lists



<u>Model</u>	<u>Page</u>
244 <i>(all)</i>	E-2

244(all)



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Models:

Serial Numbers:

All

Item	Description	Qty.
1	Upholstery Set (includes items 2 thru 5)	1
2	• Back Upholstery (specify color)	1
3	• Seat Upholstery (specify color)	1
4	Velcro	15
5	Screw	4
6	Refer to: Upper Frame	Ref
	Always Specify Model & Serial Number	

Upholstery

E-3

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On early models, the electrical connector (item #1) is accessed from the top of the upper frame.



Qty.

E-5





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All

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