Pediatric Examination Table



Model Numbers:

640 (all)





FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

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(none required)

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Symbols

DANGER

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

WARNING

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

CAUTION

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

Equipment Alert

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



In Section A, test the components in the order indicated. (ex. 1st \checkmark then, 2nd \checkmark)

Refer to Section B for component testing procedures.

The symbols below may be used in 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]

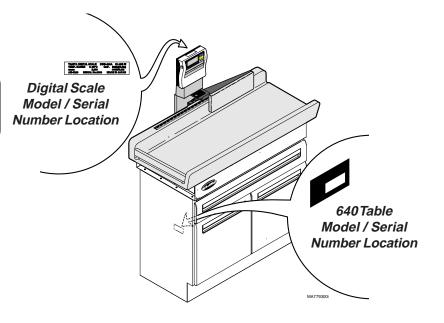
Non-warranty parts orders may be faxed to Midmark using the Fax Order Form in the back of this manual.

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

Serial Number Location



General Information

Specifications

Maximum Patient Weight: 40 lbs (18 kg) Digital Scale Paper Roll (maximum size): 14 in. long x 3 in. diameter Linear Scale 35.6 cm x 7.6 cm) Weight of Table: 170 lbs (77 kg) 41.875 in. **Digital Scale** (106.4 cm) Accuracy: Patients 0 to 22 lbs (0 to 10 kg)±1 oz (±28 g) Patients 22 to 40 lbs (10 to 18 kg) ±2 oz (±56 g) Minimum Increments: 1 oz (0.01 kg) Type Measurement: Electrical Resistance Method 35.75 in. **Power Source:** (97.2 cm) Batteriessix (6) AA (LR6 Alkali) AC Adapter......Input: 120 VAC, 60 Hz, 5W Output: 9 VDC, 200mA Power Consumption: 0.25 Watts max. Display:LCD w/ 1 in (25 mm) numerals 20.75 in. (52.7 cm) Linear Scale (Measuring Arm) **Accuracy:** ±1/8 in. (±3 mm) **Minimum Increments** 1/8 in. (0.5 cm) 51.25 in. (130 cm) MA777700i 35.75 in. (90.8 cm) 18.0 in. (45.7 cm)

General Information

Scheduled Maintenance Chart

Scheduled Maintenance			
640 Pediatric Examination Table			
Service, Adjust, Repair Interval Inspection or Service and/or Replace as Require			
Daily	Cleaning	Clean upholstery with diluted bleach solution. Ratio - 10:1 (water:bleach) Wipe painted metal & plastic surfaces with a clean soft cloth and mild cleaner. (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.	
Weekly	Check accuracy of digital scale	Refer to: <i>Digital Scale - Verifying Scale Accuracy</i> (later in this manual)	
Every two months	Check measuring arm alignment	Refer to: Measuring Arm Alignment (later in this manual)	
	Mechanical Operation	Check all mechanical functions for proper operation.	
Sami Ampuallu	Verify Table is Level	Place a level on table top. Adjust if necessary. Refer to: Leveling the Table (later in this manual).	
Semi-Annually	Labels / Decals	Replace any missing or illegible labels.	
	Lubricate	Lubricate moving parts with light machine oil.	
	Hardware	All fasteners must be present and fastened securely.	
Date of Service: Location:	/		
Service Technician:			

General Information

Warranty Information

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.

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

Troubleshooting



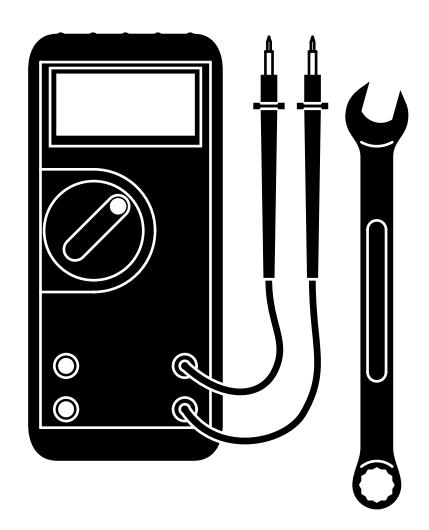
Troubleshooting

Troubleshooting Chart

* Only the complete digital scale assembly is available thru Midmark. For digital scale components, contact TANITA Corporation @ 847-640-9241

Problem	Probable Cause	Check / Test	Correction
Nothing is appears on display when the ON / ZERO button is pressed.	(If applicable) AC adapter is disconnected or malfunctioning.	Check AC adapter connections at the display and at the wall outlet.	Secure connections. If necessary, replace AC adapter*.
	(If applicable) Batteries are low.	(If applicable) Batteries are low. Replace batteries, or use AC adapter.	
	Digital display is malfunctioning.	-	Replace digital display*.
Digital display acts erratically.	erratically. Mode setting has been lost due to a power surge or replacement of digital display. Check mod		Adjust mode setting to: H8830 (Refer to Section B: Digital Scale - Display Mode Setting)
Digital display works, but measured weight stays at zero with weight on table.	t stays at zero (The display harness connects the digital Check display harness connec		Secure connections. If necessary, replace display harness*.
	Scale platform is malfunctioning.	-	Replace scale platform*.
Measured weight is inaccurate.	Paper roll interfering with table top.	Check to see if paper roll is in contact with table top.	Reduce the diameter of the paper roll, or remove paper roll completely.
	Table is not level.	Place level on table top.	Adjust leveling feet as necessary.
Table is located where excessive vibration occurs.		Check for signs of vibration at table location.	Move table to another location.
	Digital scale out of calibration.	Refer to Section B: Digital Scale - Verifying Scale Accuracy.	Calibrate digital scale. (Refer to Section B: Digital Scale - Calibration Procedure)
	Display harness loose or damaged. (The display harness connects the digital display to the scale platform)	Check display harness connections.	Secure connections. If necessary, replace display harness*.
	Diital display or scale platform malfunctioning.	-	Replace display* / platform* as necessary.
Linear scale is inaccurate.	Scale label is not positioned properly.	Measure from end of table top to scale label.	Reposition label if necessary.
Measuring arm out of adjustment.		Refer to Section B: Linear Scale - Checking Arm Alignment.	Adjust arm as necessary.



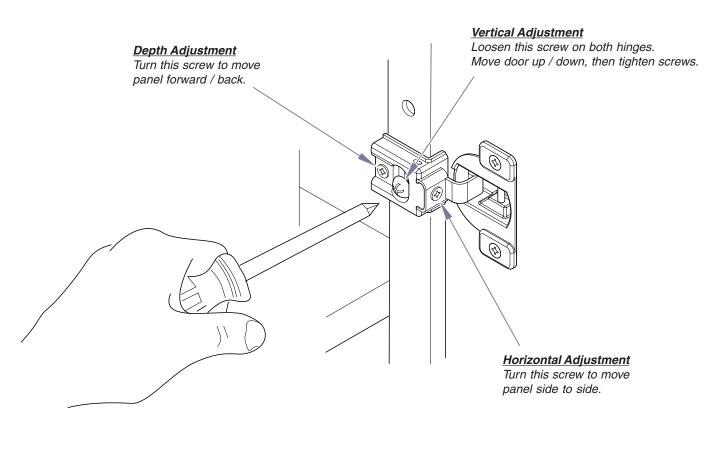


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www.Documark.com: Fi	<u>le Name</u>
Digital Scale Replacement* 003	3-1836-00
Upholstered Top	
Replacement* 003	3-1811-00

Doors / Drawer

Door Adjustment

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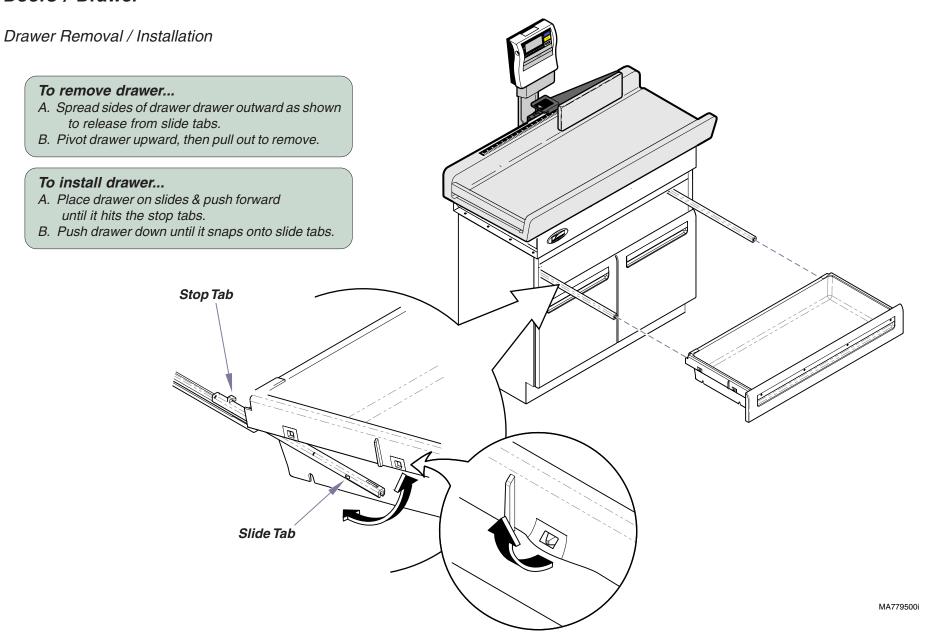


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Doors / Drawer

Models: Serial Numbers: ALL

Doors / Drawer



Models: Serial Numbers: ALL

Doors/Drawer

Linear Scale

Checking / Adjusting Arm Alignment

<u>Linear Scale</u> <u>Page</u>

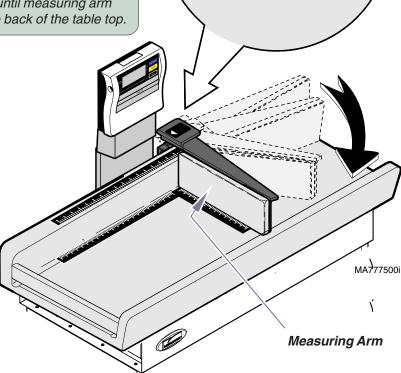
Checking / Adjusting Arm Alignment B-2 Exploded View / Part Numbers E-5

To check measuring arm alignment...

- A. Pivot measuring arm out as shown.
- B. Using a carpenter's square, check to see if the measuring arm is square with the back of the table top.
- C. If necessary, adjust arm until square.

To adjust measuring arm...

Using a 3/32" allen wrench, adjust setscrew in / out until measuring arm is square with the back of the table top.



Setscrew

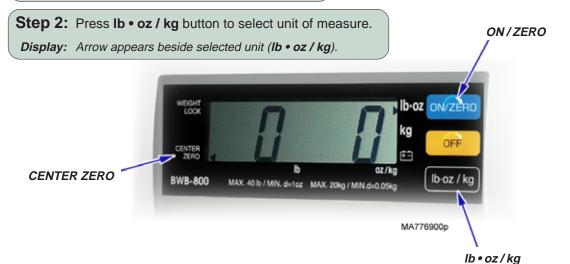
Models: Serial Numbers:

Digital Scale

Verifying Scale Accuracy

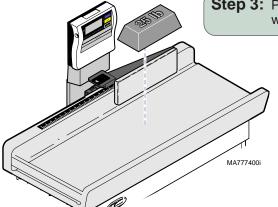
Step 1: Press ON / ZERO button.

Display: Flashes "8.8.8.8", then shows "0.0"
Arrow appears beside CENTER ZERO
(indicates scale is zeroed and ready for use).



<u>Digital Scale</u>	<u>Page</u>
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www.Documark.com: Fi	<u>le Name</u>
Digital Scale Replacement* 003	-1836-00

* Replacement instructions are provided with this part. They are also available on Documark.com, or by clicking on the link in the blue box.



Step 3: Place a 25 lb (11.3 kg) calibrated test weight in the center of the table top.

Step 4: The weight displayed should match the calibrated test weight.

Note: Allowable tolerance*: ± 2 oz (56 g)



WARNING

If scale reading is out of tolerance...

Perform Calibration Procedure. If necessary, replace digital scale assembly*

Do <u>not</u> use scale until problem has been rectified.

Models:Serial Numbers:

ALL

Digital Scale

Rev 10/10/12

Digital Scale - continued

Calibration Procedure

The Calibration Procedure <u>must</u> be performed when any of the following conditions occur:

- Scale readings appear to be inaccurate.
- The digital display, or any other scale component is repaired or replaced.
- Annually, as part of a scheduled maintenance plan.
- The table is moved (geographically) to a new location with a significantly different elevation level.

Calibration Procedure:

Display shows:

<u>oanbration i roccaure.</u>	Dispidy Silows.
Step 1: While pressing the Ib • oz / kg button, press & release the ON / ZERO button to turn display power ON.	'88888'
Release lb • oz / kg button when ' F 1 ' appears on display.	'F 1'
Step 2: Press the ON / ZERO button.	'F 2'
Step 3: Press the Ib • oz / kg button.	either ' 9 ' or ' 16 '
Step 4: If the display shows '16', press the lb • oz / kg button.	initially: ' 0 ' will change to: ' 2 '
If the display shows '9', press the ON / ZERO button, then press the Ib • oz / kg button.	initially: ' 0 ' will change to: ' 2 '
Once display changes to ' 2 ', go to Step 5.	



ON/ZERO

Calibration	Procedure	- continued:	Display	y shows:
C ullol all Oli	1 1 OCCUUIC	continuca.	DISPIU	, 3110113.

Step 5:	Gently place 50 lb. of calibrated weight on the center of the table top.	
	Allow weight to stablize for 10 seconds, then press the Ib • oz / kg button.	'F 1'
Step 6:	Remove weights from table. Press OFF button.	
Step 7:	Verify scale accuracy by performing the procedure on the previous page.	
Step 8:	Perform "Gravity Correction Procedure" on following page.	

Digital Scale

Models:Serial Numbers:

ON/ZERO

Digital Scale - continued

Gravity Correction Procedure

The Gravity Correction Procedure <u>must</u> be performed when any of the following conditions occur:

- Whenever the scale is calibrated.
- The table is moved (geographically) to a new location with a significantly different elevation level.

Gravity Correction Procedure:	Display shows:
Step 1: While pressing the Ib • oz / kg button, press & release the ON / ZERO button to turn display power ON. Release Ib • oz / kg button when 'F 1' appears on display.	'88888' 'F 1'
Step 2: Press the ON / ZERO button until display shows 'F 3'.	'F 3'
Step 3: Press the Ib • oz / kg button.	' 0.00 '
Step 4: Adjust the gravitational compensation value to 0.00. (Press ON / ZERO button to increase) (Press OFF button to decrease)	' 0.0x ' adjust if necessary to show: ' 0.00 '
Step 5: Press the Ib • oz / kg button.	'F 1'
Step 6: Press the OFF button.	



Digital Scale - continued

Display Mode Setting

The Display Mode Setting Procedure <u>must</u> be performed when any of the following conditions occur:

- The digital display unit is replaced.
- The PC board inside the digital display unit is replaced.

Display Mode Setting Procedure:	Display shows:

Step 1: While pressing the Ib • oz / kg button, press & release the ON / ZERO button to turn display power ON. Release Ib • oz / kg button when	'88888' 'F 1'
'F 1' appears on display.	
Step 2: Press the ON / ZERO button until display shows 'F 4'.	'F 4'
Step 3: Press the Ib • oz / kg button. (The mode setting should be 'H8830'. If an initial mode setting has not been performed, only 'H' will be displayed.	'H'
Step 4: Press the ON / ZERO button to change the first digit to '8'. Then pressthe OFF button to change the second digit to '8'.	' Hxx ' to ' H88 '



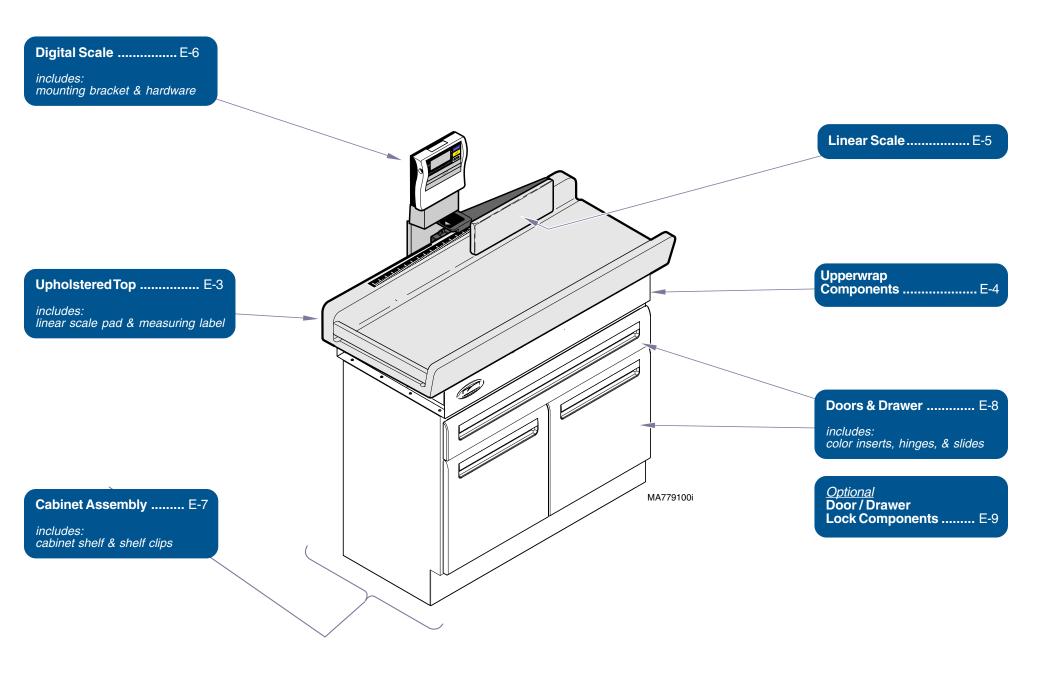
<u>Display Mode Setting Procedure:</u> <u>Display shows:</u>
--

Step 5: Press the Ib • oz / kg button.	'F 1'
Step 6: Press the ON / ZERO button until display shows 'F 5'.	'F 5'
Step 7: Press the ON / ZERO button to change the third digit to '3'. Then pressthe OFF button to change the fourth digit to '0'.	' H88xx ' to H8830 '
Step 8: Press the Ib • oz / kg button.	'F 1'
Step 9: Press the OFF button to turn to turn digital display off.	

Exploded Views & Parts Lists

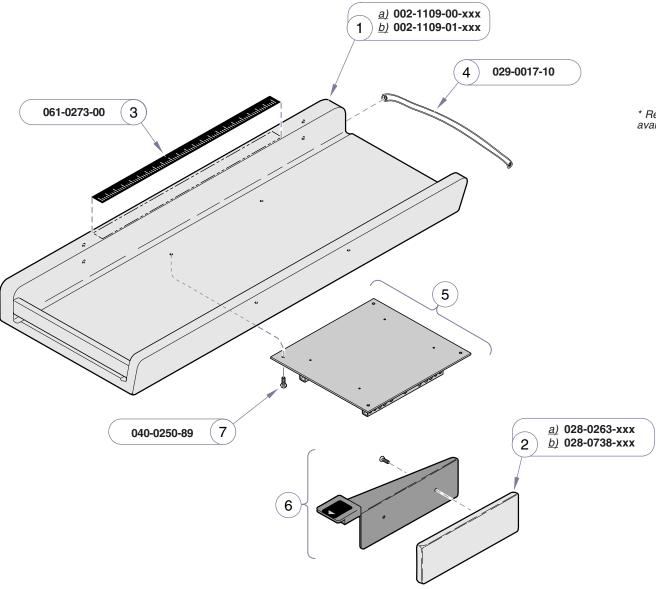
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^{*} Indicates multiple pages due to a serial number break for the parts illustration

ATTENTION: Refer to Current Color Options link for appropriate numbers to replace -xxx.

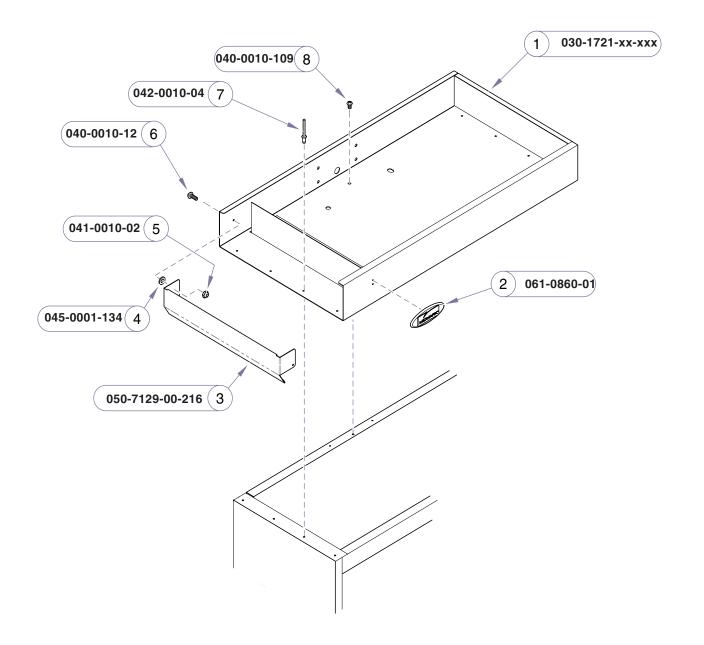


ReferTo:	Page
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Upholstered Top	
Replacement* 003-181	1-00
Color Selectorwww.midmark.	com

^{*} Replacement instructions are provided with this part. They are also available on Documark.com, or by clicking on the link in the blue box.

Item	Description	Qty.
1	Upholstery Kit (incl. items 2 & 3):	
	a) Standard	1
	b) Cal. 133	1
2	Linear Scale Pad	
	a) Standard	1
	b) Cal. 133	1
3	Linear Scale Label	1
4	Paper Tear Strap	
5	Refer to: "Digital Scale"	Ref
6	Refer to: "Linear Scale"	Ref
7	Screw (1/4-20 x 1")	4
4	Always Specify Model & Serial Number	

MA778500i



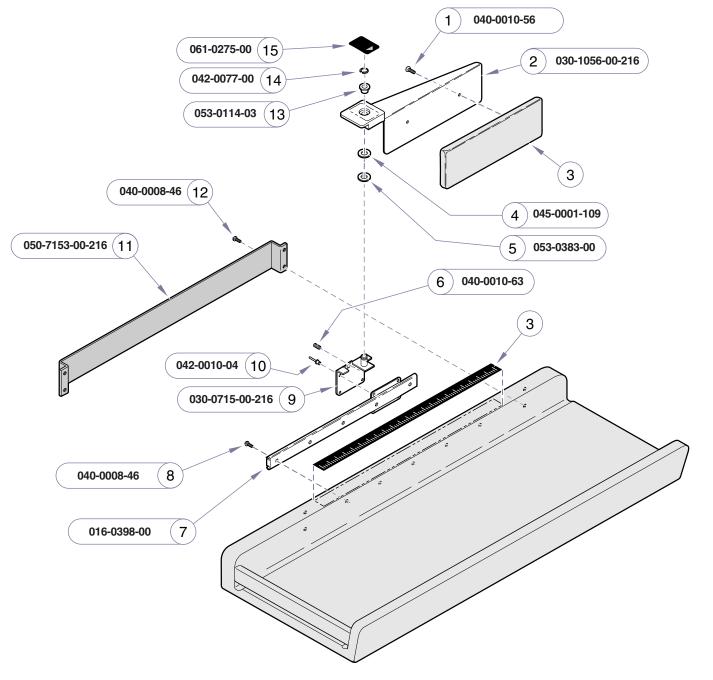
Item	Description	Qty
1	Upperwrap	1
2	Midmark Nameplate	1
3	Paper Roll Cover	
4	Washer	1
5	Nut	1
6	Screw (#10-24 x 1/2")	1
7	Pop Rivet	8
8	Screw (#10-24 x 3/8")	1
	Always Specify Model & Serial Num	ber

MA779000i

Upperwrap Components

Models: Serial Numbers:

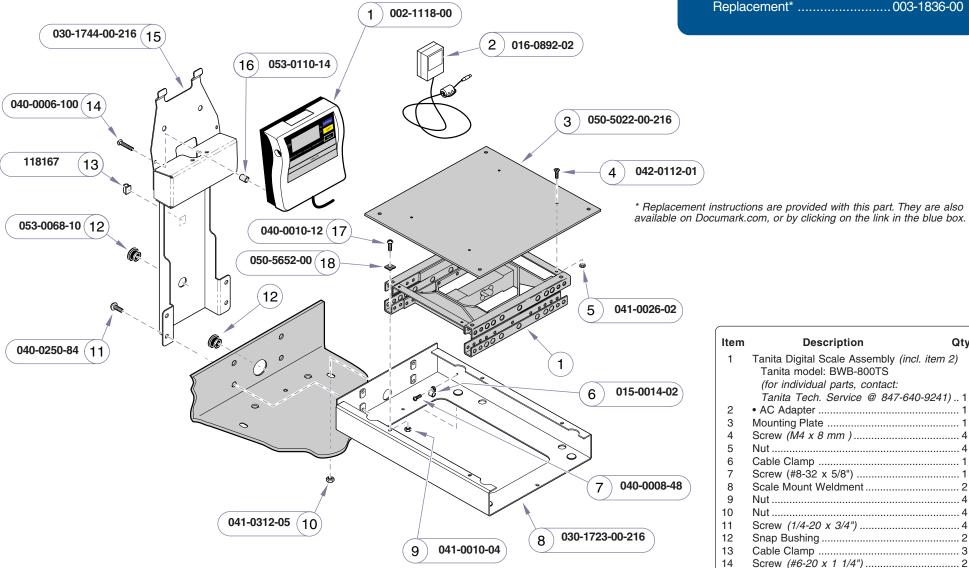
All



Item	Description (Qty.
1	Screw (#10-24 x 5/8")	. 2
2	Measuring Arm Weldment	. 1
3	Refer to: "Upholstered Top" F	₹ef
4	Pivot Washer	
5	Spring Washer	. 1
6	Setscrew	. 1
7	Linear Slide Assembly	. 1
8	Screw (#8 x 3/4")	. 9
9	Pivot Bracket	. 1
10	Pop Rivet	. 4
11	Slide Cover	
12	Screw (3/4")	. 4
13	Flange Bearing	. 1
14	Snap Ring	
15	Arrow Label	. 1
	Always Specify Model & Serial Number	

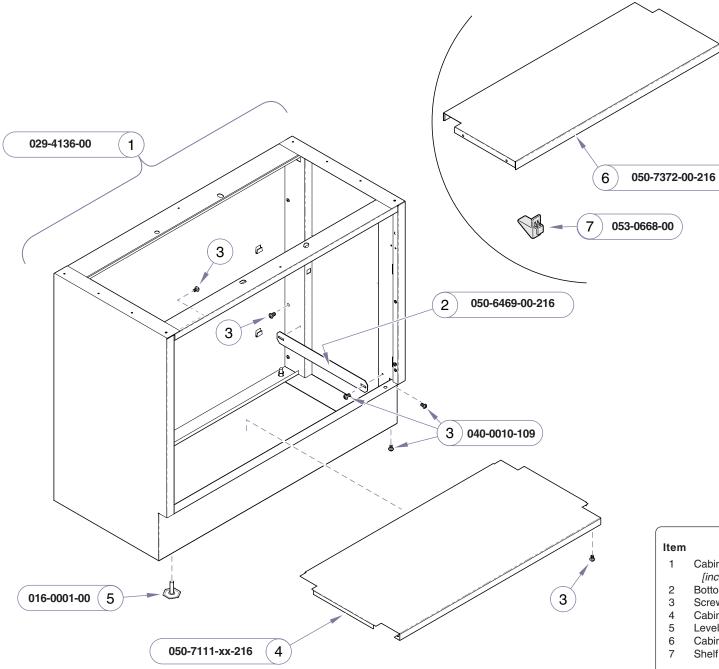
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Item	Description Qty.			
1	Tanita Digital Scale Assembly (incl. item 2) Tanita model: BWB-800TS			
	(for individual parts, contact:			
	Tanita Tech. Service @ 847-640-9241)1			
2	• AC Adapter			
3	Mounting Plate 1			
4	Screw (M4 x 8 mm)4			
5	Nut 4			
6	Cable Clamp 1			
7	Screw (#8-32 x 5/8") 1			
8	Scale Mount Weldment 2			
9	Nut 4			
10	Nut 4			
11	Screw (1/4-20 x 3/4")			
12	Snap Bushing2			
13	Cable Clamp3			
14	Screw (#6-20 x 1 1/4")2			
15	Digital Scale Display Bracket 1			
16	Spacer2			
17	Screw (#10-24 x 5/8") 4			
18	Scale Washer4			
	Always Specify Model & Serial Number			

MA778700i



Item	Description	Qty.
1	Cabinet Assembly [includes screws (item 3) & nutserts]	1
2	Bottom Support Bracket	
3	Screw (#10-24 x 3/8")	. 12
4	Cabinet Bottom	
5	Leveling Foot	4
6	Cabinet Shelf	1
7	Shelf Clip	4
	Always Specify Model & Serial Number	

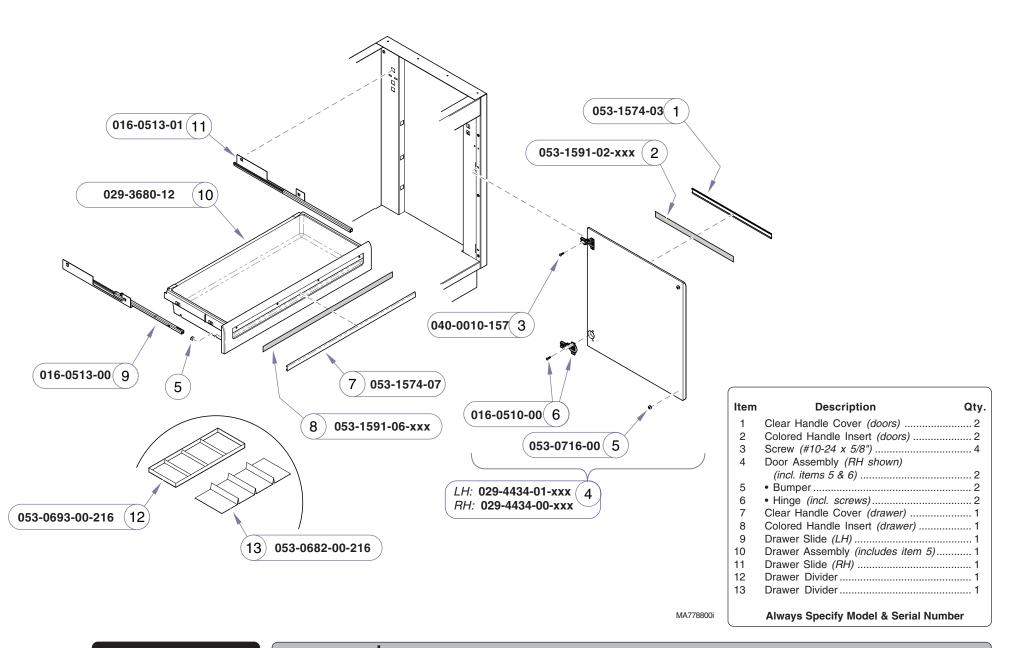
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Models: Serial Numbers:

All

Cabinet Assembly

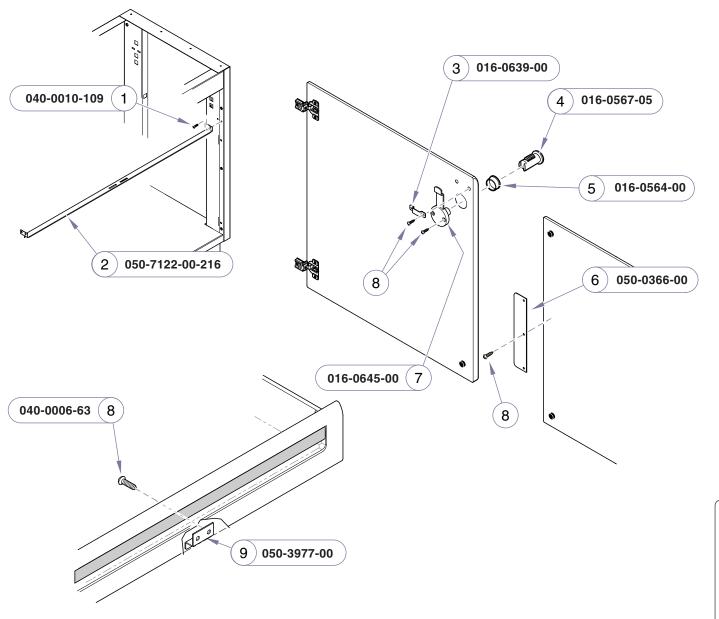
ATTENTION: For components of the door or drawer locking mechanism, refer to Door / Drawer Lock Components on the following page.



Doors & Drawer

Models: Serial Numbers:

All



Item	Description	Qty.		
1	Screw (10-24 x 3/8")	4		
2	Lock Mullion	1		
3	Strike Plate	1		
4	Lock Plug	1		
5	Lock Bezel	1		
6	Door Plate	1		
7	Lock Cylinder	1		
8	Screw (#6 x 5/8")	7		
9	Drawer Lock Bracket	1		
	Always Specify Model & Serial Number			

MA7816i

Models: Serial Numbers: All

Door / Drawer Lock Components

COMMENTS

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If an error is found, please list the page and paragraph/figure in which the error was found along with a brief description of what the error is. If the correction to the error is known, please include that information also. If a change, addition, or deletion is being requested, please list the page and paragraph/figure needing the change, along with a brief description of how you feel the paragraph/figure should be changed.

Please fax or mail a copy of this completed comment sheet to:

Midmark Corporation ATTN: Technical Publications Dept. 60 Vista Drive Versailles, Ohio 45380

Fax: (937) 526-5542

Page Number	Paragraph/Figure	Description

SERVICE DEPARTMENT CUSTOMER ATTENTION:

IMPORTANT NOTES:

- 1) Use this form for all non-warranty orders only. Warranty orders must be telephoned in (1-800-643-6275).
- 2) FAX number to send order to: 877-249-1793
- 3) All emergency orders must be received @ Midmark by 1:00 pm EST.
- 4) All underlined headings should be filled in prior to submittal.

ADDITIONAL COMMENTS:

SERVICE PARTS FAX ORDERING FORM

(Do not tear out this page. Photo copy this page for use only.)



DATE:	/	am pm		
	D OF SHIPMENT: NON-EMERGENCY O	ORDER {to ship		
PRIORITY: within 72 hours if part(s) are in stock.} EMERGENCY ORDER {to ship within 24 hours if part(s) are in stock.} [see note 3]		DEALER P.O. #: ACCOUNT #:		
MODEL	.#:	SERIAL #:	SALES ORDER # (if applicable)	
CITY: CONTA	STATI	<u>E:</u> ZIP:	SHIP TO:	
LINE #			DESCRIPTION	COLOR (if applicable)
CREDIT	CARD INFORMATION			
	YPE N CARD	CARD #	EXP. DATE/	_/

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