



Pediatric Examination Table

For models:
640 (all)



MA7809

User's Guide

003-1752-00 Rev. F (8/15)

Product Information

(The information below is required when calling for service)

Dealer [name / phone]:

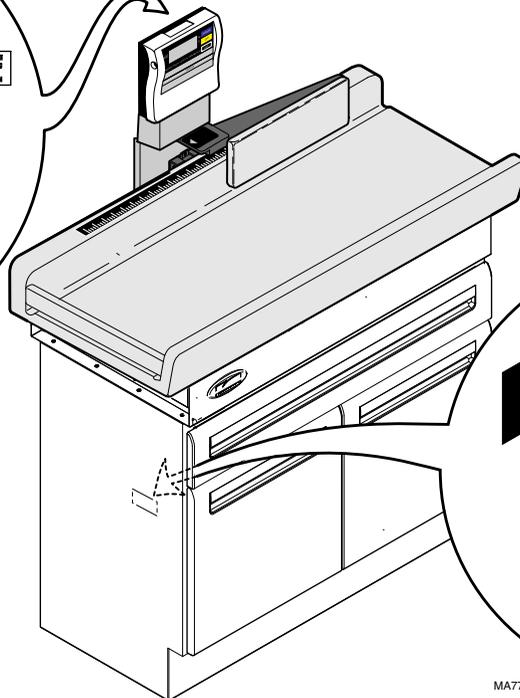
Date of Purchase:

Model / Serial Number:

Midmark Authorized Service Company [name / phone]:

**Digital Scale
Model / Serial
Number Location**

YAMATA DIGITAL SCALE	SWP-600A	CLASS II
TEMP. RANGE	0-25°C	GAP: 0.0001g
WEIGHT	5.00g	CAPACITY
ACCURACY	SERIAL NO. 2000	MADE IN JAPAN



**640 Table
Model / Serial
Number Location**

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Important Information

Safety Instructions

Digital Scale Accuracy



DANGER

When dispensing medication based on patient weight, the accuracy of the scale is critical. Before using the digital scale, refer to *Digital Scale: Verifying Scale Accuracy* later in this manual. In addition, refer to the *Preventive Maintenance Schedule* for the recommended frequency of this check. If the scale is determined to be out of calibration, contact your authorized Midmark service provider before using the scale.



Safety Symbols & Labels



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



CAUTION

Indicates a potentially hazardous situation which could 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.

Note

Amplifies a procedure, practice, or condition.



Consult User Guide for important information.



Keep dry



Proper shipping orientation



Maximum stacking height (palletted units)



Fragile



Temperature limits for storage of product



Patient weight limit

Intended Use

This table is intended to be used by medical professionals during general examinations, observation, and non-invasive procedures of infants / children (*ex. measuring & weighing*).

(Note: The patient on the table must be attended by doctor / assistant or parent at all times).

Calling For Service

Note

Model / serial number information is required when calling for service.

If service is required, contact your Midmark dealer. To contact Midmark directly:

1-800-Midmark (1-800-643-6275) or 937-526-3662
8:00 am until 5:00 pm. Monday through Friday (EST)
[excluding standard U.S. holidays]

Transportation / Storage Conditions



Equipment Alert

The Tanita digital scale is a delicately adjusted precision instrument. Avoid excessive shock / vibration. Scale should not be exposed to direct sunlight or located near a heat source. If scale is moved to a location with a temperature difference of 68°F (20°C) or more, allow scale to acclimate for two hours before using.

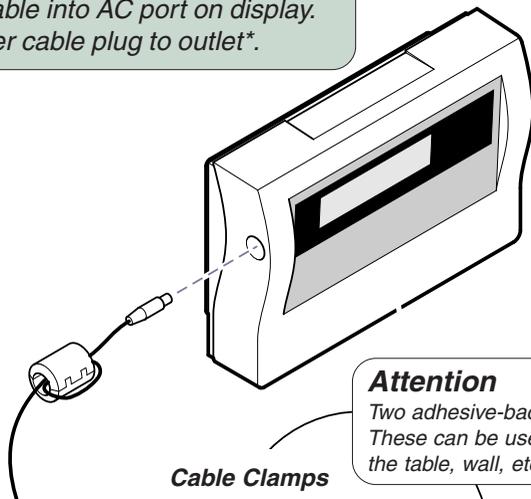
Ambient Temperature Range: -4°F to +104°F (-20°C to 40°C)
Relative Humidity 10% to 90% (non-condensing)
Atmospheric Pressure 500hPa to 1060hPa (0.49atm to 1.05atm)
Extended Storage Remove batteries from digital scale

Installation

Digital Scale: AC Adapter Cable Connection

To connect AC adapter cable...

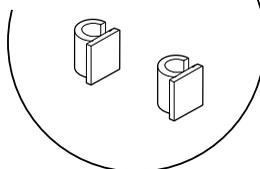
- A. Plug adapter cable into AC port on display.
- B. Connect adapter cable plug to outlet*.



Attention

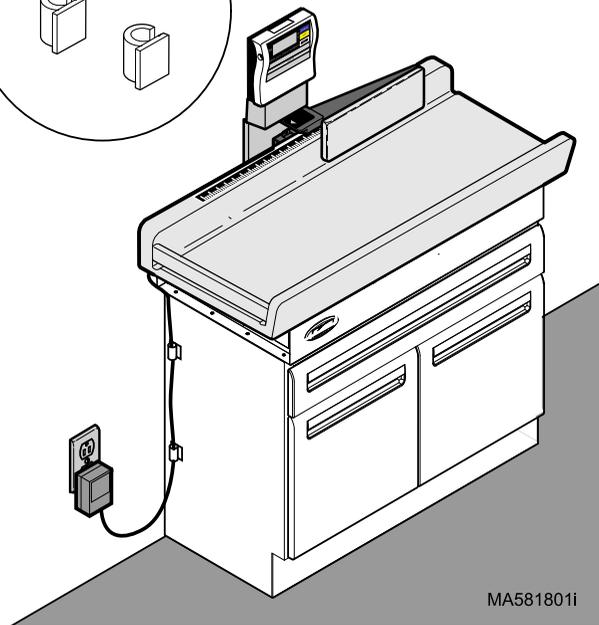
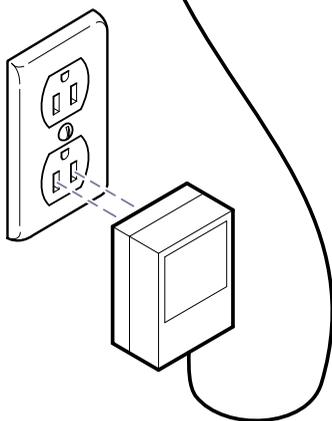
Two adhesive-backed cable clamps are provided. These can be used to secure the adapter cable to the table, wall, etc. (see illustration below).

Cable Clamps



*Electrical Requirements

120VAC, 60 Hz, 5W

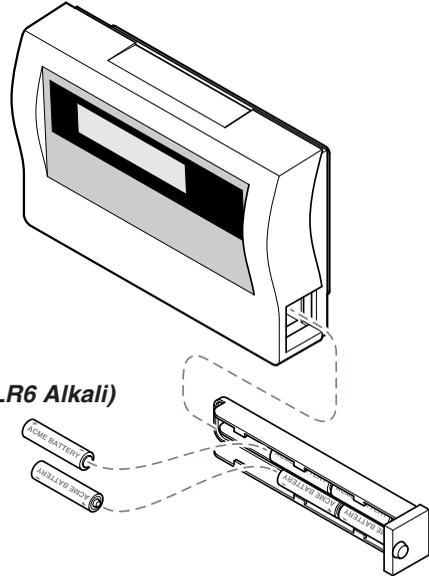


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Digital Scale: Battery Installation

To install batteries...

- A. Loosen thumbscrew & remove battery box.
- B. Install six AA (LR6 Alkali) batteries.
(Position as indicated on battery box).
- C. Install battery box, then tighten thumbscrew.

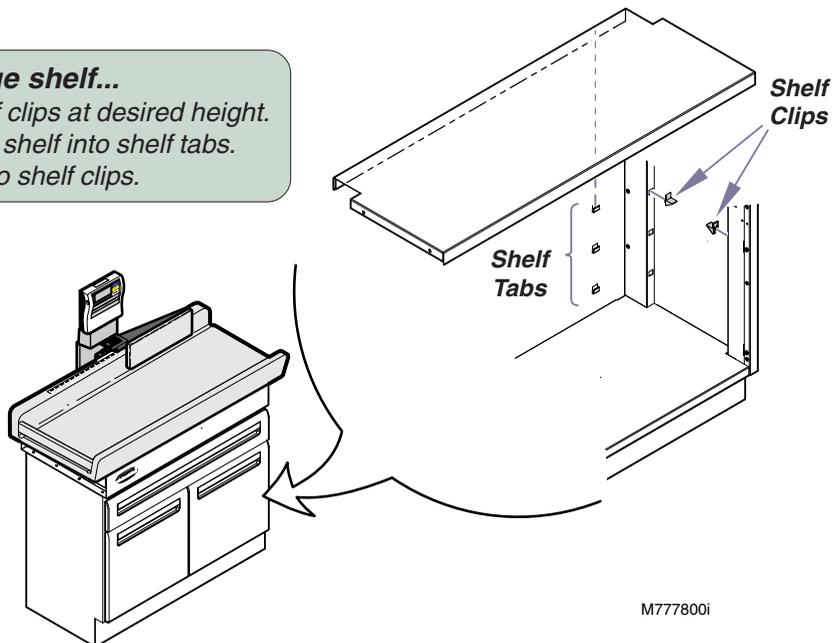


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Storage Shelf

To install storage shelf...

- A. Install four shelf clips at desired height.
- B. Latch rear lip of shelf into shelf tabs.
- C. Lower shelf onto shelf clips.



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Operation

Digital Scale: Weighing a Patient

Attention!

Refer to: **Safety Instructions: Digital Scale Accuracy** before using the scale.



CAUTION

The maximum patient weight rating for the table is 40 lbs (20 kg).

The maximum patient height (length) rating for the table is 36 in. (91 cm).

The patient on the table must be attended by the doctor / assistant or parent at all times.



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).

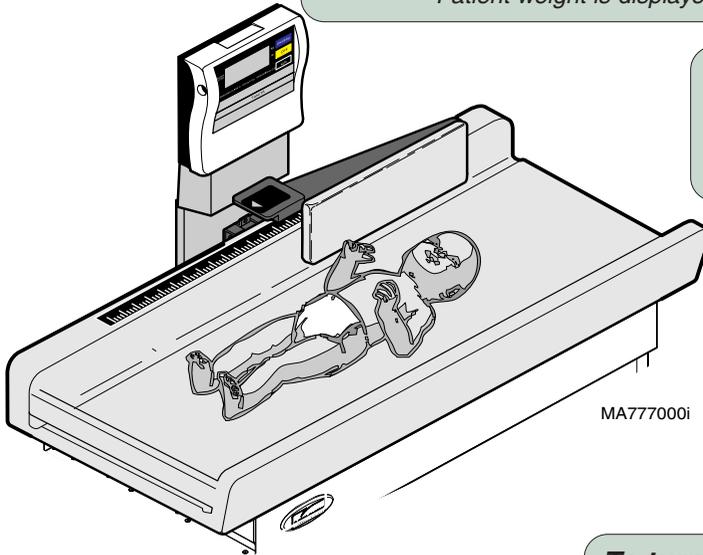
Step 2: Press **lb • oz / kg** button to change the unit of measure.

Display: Arrow appears beside selected unit (**lb • oz / kg**).

Digital Scale: Weighing a Patient - continued

Step 3: Position patient in the center of the table top.
Limit movement until **WEIGHT LOCK** arrow appears.

Display: Arrow appears beside **WEIGHT LOCK**
(indicates weight has been measured & locked in).
Patient weight is displayed (example: 8 lbs 10 oz).



To weigh another patient...

- Remove patient from table.
- Allow display to return to "0.0".
- Place next patient on table top.

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WEIGHT LOCK

To turn scale OFF...

Press **OFF** button.

(NOTE: Scale will automatically turn OFF
if the same reading is displayed for 20 minutes.)



Measuring Patient Height / Length

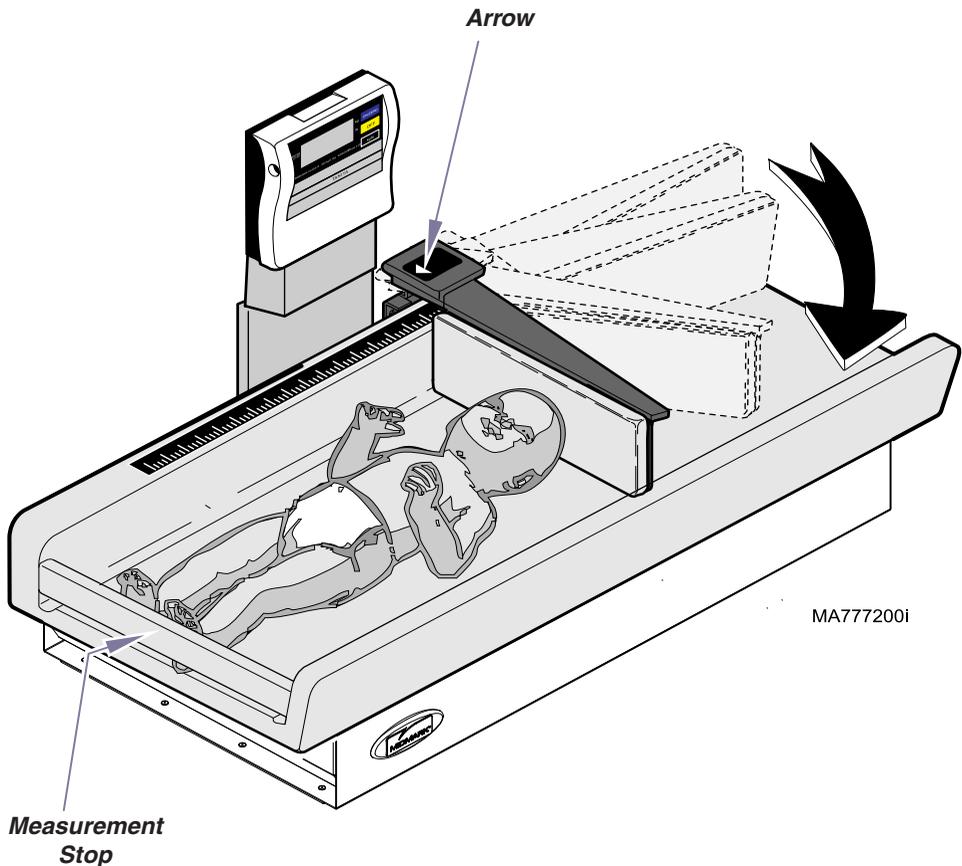


CAUTION

The maximum patient weight rating for the table is 40 lbs (20 kg).
The maximum patient height (length) rating for the table is 36 in. (91 cm).
The patient on the table must be attended by the doctor / assistant or parent at all times.

To measure patient height / length...

- Lay patient on table with feet against measurement stop and legs extended.
- Pivot measuring arm out as shown.
- Carefully slide scale arm until it contacts patient's head.
- Read the measurement at arrow on scale arm.



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Paper Roll

Paper Roll Size (max.) 14 in. long x 3 in. diameter
(35.6 cm x 7.6 cm)

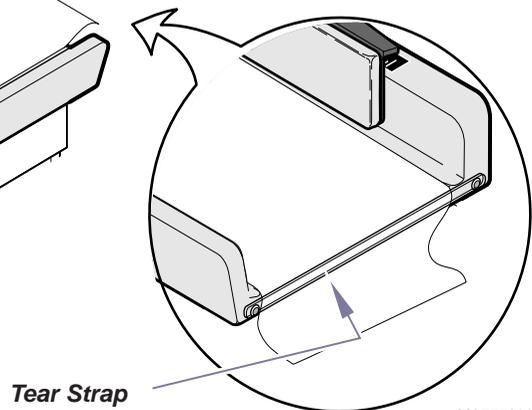
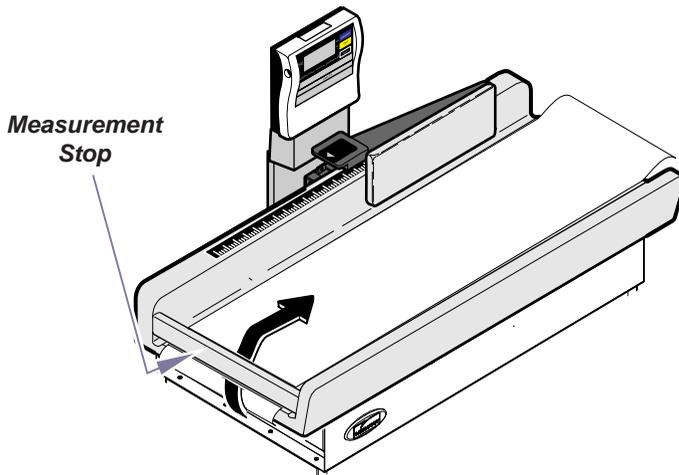
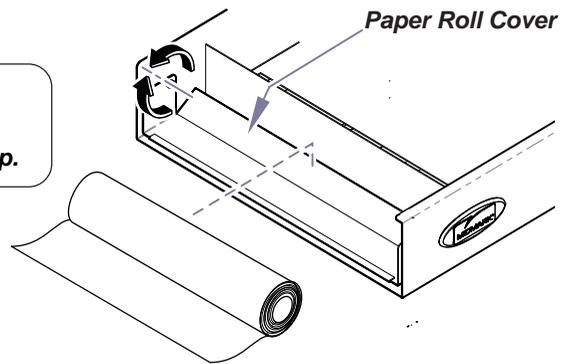
To install the paper roll...

- A. Pivot paper roll cover down to open.
- B. Install paper roll, then pivot cover up to hold roll in place.
- C. Feed paper under measurement stop and over table top.
- D. Feed paper under tear strap at opposite end of table.



WARNING

To avoid injury, do not put head or extremities under the paper tear strap.



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Maintenance

Preventive Maintenance Schedule

Scheduled Maintenance 640 Pediatric Examination Table		
Interval	Inspection or Service	Service, Adjust, Repair and/or Replace as Required
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: Digital Scale - Verifying Scale Accuracy (later in this manual)
Every two months	Check measuring arm alignment	Refer to: Measuring Arm Alignment (later in this manual)
Semi-Annually	Mechanical Operation	Check all mechanical functions for proper operation.
	Verify Table is Level	Place a level on table top. Adjust if necessary. Refer to: Leveling the Table (later in this manual).
	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:		

Digital Scale: Verifying Scale Accuracy

Attention!

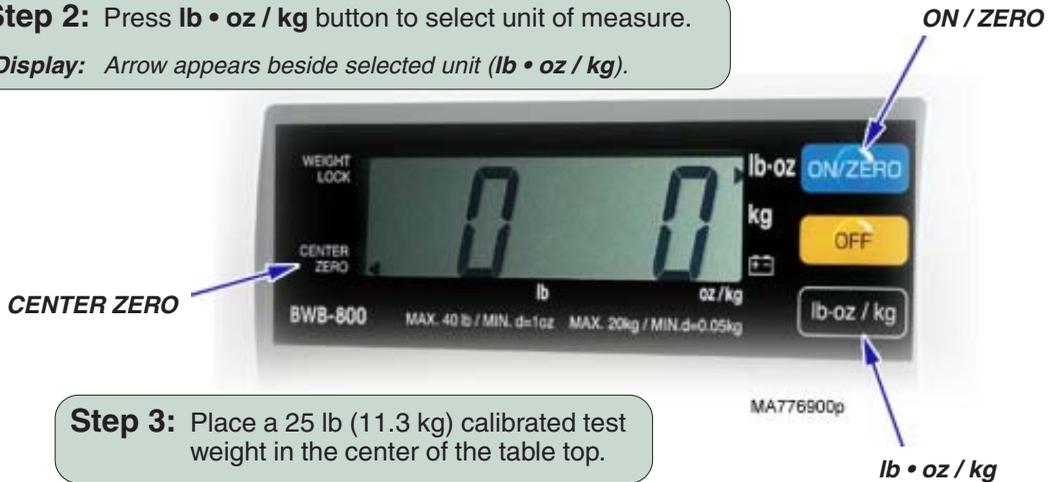
Refer to: **Safety Instructions: Digital Scale Accuracy** before using the scale.

Step 1: Press ON / ZERO button.

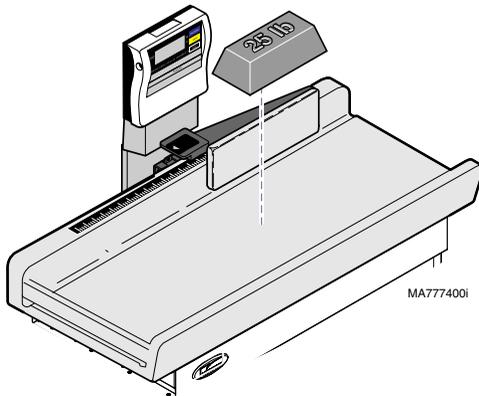
Display: Flashes "8.8.8.8", then shows "0.0"
Arrow appears beside **CENTER ZERO**
(indicates scale is zeroed and ready for use).

Step 2: Press lb • oz / kg button to select unit of measure.

Display: Arrow appears beside selected unit (lb • oz / kg).



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 reading is out of tolerance...

Contact your authorized Midmark service provider.
Do not use scale until problem has been rectified.

Leveling the Table

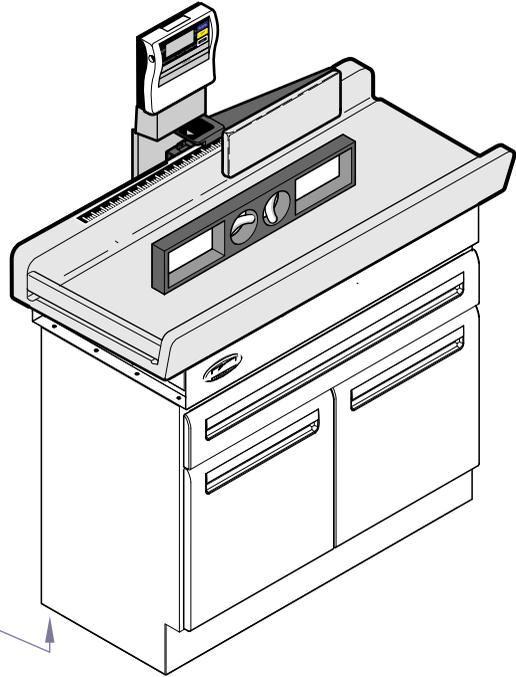


Equipment Alert

To ensure proper operation,
the table must be level.

To level the table...

- A. Place a level on table top.
- B. Adjust leveling feet until table is level.



Leveling Feet

Qty: 4 (located at each corner)

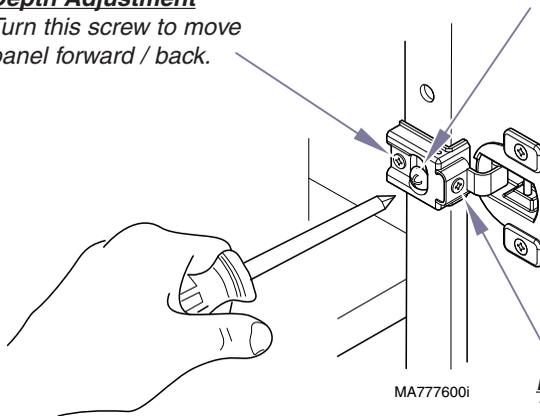
Door Adjustment

Depth Adjustment

Turn this screw to move
panel forward / back.

Vertical Adjustment

Loosen this screw on both hinges.
Move door up / down, then tighten screws.



Horizontal Adjustment

Turn this screw to move
panel side to side.

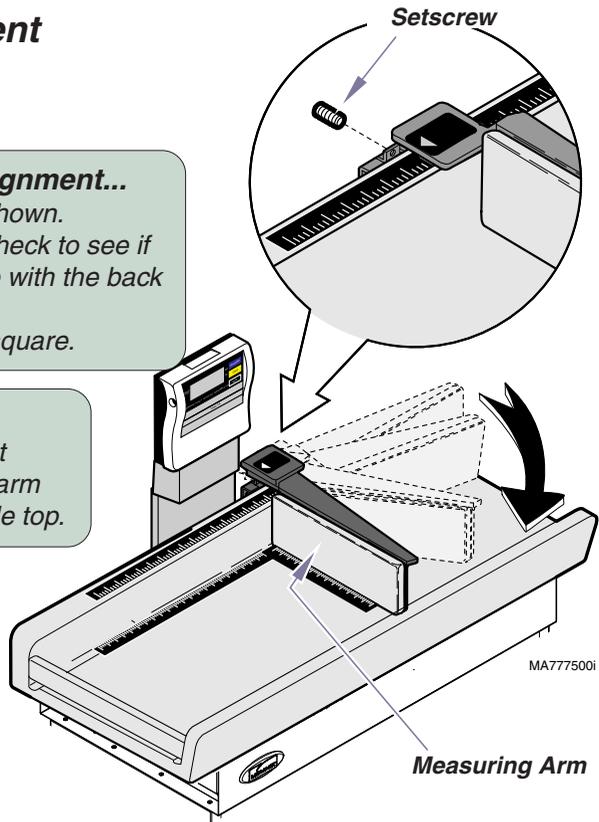
Measuring Arm Alignment

To check measuring arm alignment...

- Pivot measuring arm out as shown.
- Using a carpenter's square, check to see if the measuring arm is square with the back of the table top.
- 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.



Cleaning

Upholstery

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

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

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

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

Painted Metal / Plastic Surfaces

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

Troubleshooting

Troubleshooting Guide 640 Pediatric Examination Table		
Problem	Possible Cause	Solution
Measurement arm is not square with back of table top.	Measurement arm out of alignment	Refer to: Measuring Arm Alignment.
Length measurements seem inaccurate.	Linear scale label is in wrong location.	Use a tape measure to verify proper position of the linear scale label in relation to the measurement stop. Reposition label if necessary.
Weight measurements seem inaccurate.	Digital scale is out of calibration	Refer to: Digital Scale - Verifying Scale Accuracy
'Lo' is displayed on digital scale readout	Batteries in digital scale are low	Refer to: Digital Scale: Battery Installation

Specifications

Weights & Scale Specifications

Maximum Patient Weight: 40 lbs (18 kg)
Paper Roll (maximum size): 14 in. long x 3 in. diameter
 (35.6 cm x 7.6 cm)
Weight of Table: 170 lbs (77 kg)

Digital Scale

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

Power Source:

Batteries six (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

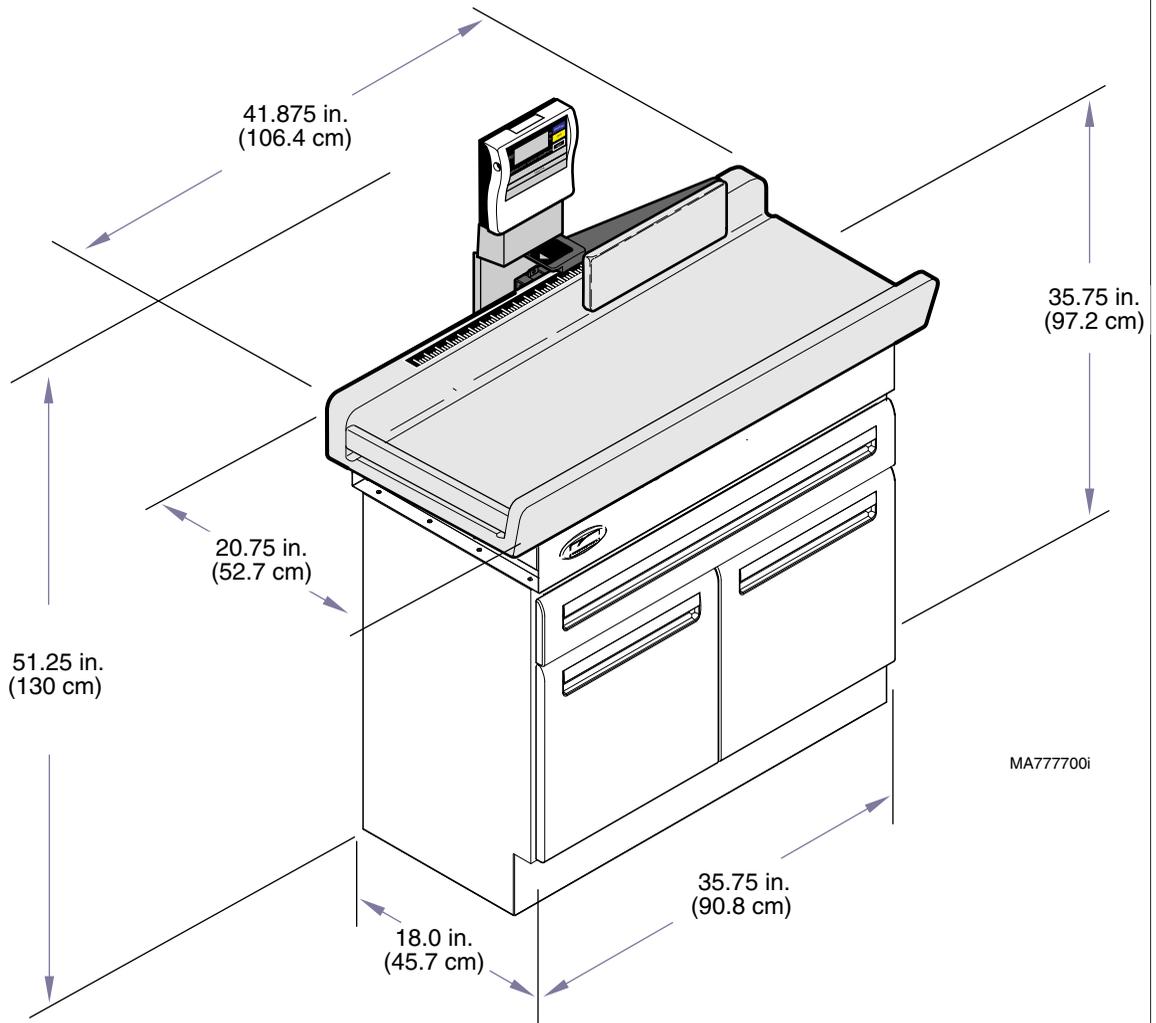
Linear Scale (Measuring Arm)

Accuracy: ±1/8 in. (±3 mm)

Minimum Increments 1/8 in. (0.5 cm)

Table Dimensions: (Refer to: **Dimensions** on following page)

Dimensions



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Warranty Information

SCOPE OF WARRANTY

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

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components.

OBTAINING WARRANTY SERVICE

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

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

EXCLUSIONS

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

- (1) defects, damage or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
- (2) products which are not installed, used, and properly cleaned and maintained as required in the Midmark "Installation" and/or "Installation/Operation Manual" for the applicable product;
- (3) products considered to be of a consumable nature;
- (4) accessories or parts not manufactured by Midmark;
- (5) charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing in advance by Midmark;
- (6) costs and expenses of routine maintenance and cleaning; and
- (7) representations and warranties made by any person or entity other than Midmark.

EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER:

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

NO AUTHORIZATION

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

WARRANTY DISCLAIMER

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

STATUTE OF LIMITATIONS

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

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Because we care.