

# USER MANUAL

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## OAKWORKS® PF Series Tables



PF400  
Shown with optional  
Adjustable Side Arm Rests  
and Universal Table Extender



PF250



PF200  
Shown with optional  
QuickLock™ Face rest platform  
and Boiance™ crescent

Printed in U.S.A.

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## PRODUCT USE DESCRIPTION / IMPORTANT SAFETY INSTRUCTIONS

### PRODUCT USE DESCRIPTION

The PF Exam Table is a powered positioning table used for routine treatment and examination procedures. It is intended to be operated by a healthcare professional in a medical environment. No special training is required but a review of the following User Manual is important for the safety of the operator and patient. The healthcare professional should read and understand this entire manual before use with a patient. There are no known contraindications with the use of this equipment.

### SYMBOL IDENTIFICATION



This symbol, when used in this manual and on product labels, represents a caution warning. Be sure to read and comply with all precautions and warnings.



This symbol, when used in this manual and on product labels, warns against an electrical shock hazard. Be sure to observe and comply with all warnings.



This symbol, when used in this manual or on product labels, indicates a Protective Earth (Ground) Terminal.



This symbol, when used in this manual or on product labels, indicates that the product should be protected from moisture. The humidity specifications for Transport & Storage are listed in the environmental conditions section of this manual.



This symbol is used to indicate that the operator should consult the user manual.



This symbol, when used in this manual and on product labels, indicates that the table and components are a Type B Applied Part pursuant to IEC 60601-1: 2005.



This symbol, when used in this manual or on product labels, indicates alternating current (AC).



This symbol, when used in this manual or on product labels, indicates direct current (DC).

### IMPORTANT SAFETY INSTRUCTIONS



#### CAUTION

**READ AND SAVE THESE INSTRUCTIONS**

The Backrest and Leg Rest sections are not designed to support the entire weight of the patient. Do not sit on the Backrest or Leg rest sections.

The table is not to be used as a gurney or to transport patient from room to room.

Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

Portable and mobile RF communications equipment can affect Medical Electrical Equipment.

## IMPORTANT SAFETY INSTRUCTIONS

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The use of accessories, transducers, and cables other than those specified by the manufacturer, may result in increased emissions or decreased immunity of the table.

The table should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, the table should be observed to verify normal operation in the configuration in which it will be used.

The table is designed to be a stand alone table. This table must not be modified or incorporated into any other equipment.

As with any moving mechanism there are potential pinch points around and underneath the table top. It is the responsibility of the operator of this equipment to insure that bystanders are not in the area below or around this equipment during operation.

Proper operation of this equipment is very important for the safety of the operator, patient, and any other individuals in the area of this equipment. Directions for use of this equipment are described in this manual. The operator should read these sections carefully.

**Weight Limit: (patient and accessories) 550 lbs./250 kg. Do not exceed.**

Be certain that the table is completely lowered without any tilt being present prior to discharging an ambulatory patient. The patient may lose balance and fall.

This table is not suitable for use in the presence of flammable anesthetic mixture with air or oxygen or nitrous oxide.

Do not lift the table by the table top. This can damage the table.

When lowering the table or using the Trendelenburg functions, make sure there is nothing underneath the table top that can impede motion (like stools, cabinets, accessory parts, cleaners, etc.).

Use this furnishing only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

Close supervision is necessary when this furnishing is used by, or near children, invalids, or disabled persons.

### **WARNING**

To reduce the risk of burns, fire, electric shock or injury to persons:

1. Unplug this furnishing from the electrical outlet before cleaning.
2. Unplug from outlet before adding or removing parts.
3. Never operate this furnishing if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Contact Oakworks Customer Service before use.
4. Keep the cord away from heated surfaces.
5. Never drop or insert any object into any opening.
6. Do not use outdoors.
7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.

### **DANGER**

Risk of electric shock - Connect this furnishing to a properly grounded outlet only. See Grounding Instructions in this manual.

Electrical Shock Hazard. The power supply/control module is located under the table seat. No user serviceable parts are inside the control box. Refer servicing to qualified personnel. Unplug wall plug prior to contact with any cables connected to the power supply.

## PRODUCT DESCRIPTION

### PF400



#### STANDARD SPECIFICATIONS

Motion 1	Powered 21"-37" (54-94 cm.) Height Range
Motion 2	Powered $\pm 15^\circ$ Trendelenburg/ Reverse Trendelenburg
Motion 3	Powered 0-70° Backrest
Motion 4	Powered 0-60° Foot Rest
Foot Control	All powered motions
Table Voltage Options	100V/60Hz - 230V/50Hz Switch Mode Power Supply
Table Capacity	550 lbs. (250 kg.) (patient and accessories)
Widths	27" (69 cm.), 29" (74 cm.), 31" (79 cm.) or 33" (84 cm.)
Length - 4 section	72" (183 cm.)
Padding	4" (10 cm.) Comfort Foam™
Upholstery	Terra Touch™
Wood Stain	Natural Maple Finish
Table Weight*	234 lbs. (106 kg.)
Warranty	3 year parts, 1 year labor
Safety Listings	FDA, cETLus

#### OPTIONS

Wood Finishes  
 Locking Casters  
 Hand Control

#### ACCESSORIES

Adjustable Side Arm Rests (2)  
 QuickLock Face Pad  
 Table Extender - 12" (30.5 cm.) Long  
 Lowered Arm Rest

For electrical specs, see Specifications section.

## PRODUCT DESCRIPTION

### PF250



STANDARD SPECIFICATIONS	
Motion 1	Powered 21"-37" (54-94 cm.) Height Range
Motion 2	Powered $\pm 15^\circ$ Trendelenburg/ Reverse Trendelenburg
Motion 3	Manual 0-80° Backrest
Foot Control	All powered motions
Table Voltage Options	100V/60Hz - 230V/50Hz Switch Mode Power Supply
Table Capacity	550 lbs. (250 kg.) (patient and accessories)
Widths	27" (69 cm.), 29" (74 cm.), 31" (79 cm.) or 33" (84 cm.)
Length - 2 section	74" (188 cm.)
Padding	3" (8 cm.) Comfort Foam™
Upholstery	Terra Touch™
Wood Stain	Natural Maple Finish
Table Weight*	212 lbs. (96 kg.)
Warranty	3 year parts, 1 year labor
Safety Listings	FDA, cETLus

OPTIONS
4" (10 cm.) Comfort Foam™
Wood Finishes
Locking Casters
Hand Control
ACCESSORIES
QuickLock Face Pad
Table Extender - 12" (30.5 cm.) Long
Lowered Arm Rest

For electrical specs, see Specifications section.

## PRODUCT DESCRIPTION

### PF200



STANDARD SPECIFICATIONS	
Motion 1	Powered 19.5"-35.5" (50-90 cm.) Height Range
Motion 2	Powered $\pm 15^\circ$ Trendelenburg/ Reverse Trendelenburg
Foot Control	All powered motions
Table Voltage Options	100V/60Hz - 230V/50Hz Switch Mode Power Supply
Table Capacity	550 lbs. (250 kg.) (patient and accessories)
Widths	27" (69 cm.), 29" (74 cm.), 31" (79 cm.) or 33" (84 cm.)
Length - 2 section	73" (185 cm.)
Padding	3" (8 cm.) Comfort Foam™
Upholstery	Terra Touch™
Wood Stain	Natural Maple Finish
Table Weight*	212 lbs. (96 kg.)
Warranty	3 year parts, 1 year labor
Safety Listings	FDA, cETLus

OPTIONS
4" (10 cm.) Comfort Foam™
Wood finishes
Locking Casters
Hand Control
ACCESSORIES
QuickLock Face Pad
Table Extender - 12" (30.5 cm.) Long
Lowered Arm Rest

For electrical specs, see Specifications section.



## INSTALLATION

All tables come completely assembled and ready to use. Plug the cord into a functioning outlet that is rated for the table. (see Grounding below)

Arrange the power cord and control cords so that they will not create a tripping hazard and where the controls are located to your liking and are conveniently accessible.

Be sure access to plug is not blocked for disconnecting the table from power.

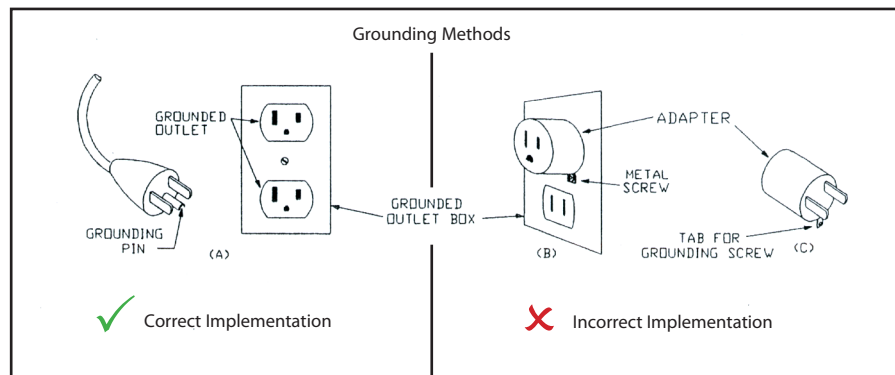
## GROUNDING



### DANGER

Risk of Electric Shock - Connect this furnishing to a properly grounded outlet only.

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding pin. The pin must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. See U.S. sample below.



Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet; have a proper outlet installed by a qualified electrician.

## DIRECTIONS FOR USE

### FOOT CONTROL OPERATIONS - PF400 ONLY



#### CAUTION

Do not sit on backrest or footrest sections. The hood area under the backrest top is not designed for storage. DO NOT use this area for holding anything. Damage can occur to the table.

The PF400 Tables offer trendelenburg, height, backrest and footrest positioning with electronic ease. Operate the foot control as shown below to raise or lower the trendelenburg, height, backrest or footrest functions of the table.



## DIRECTIONS FOR USE

### FOOT CONTROL OPERATIONS - PF250 & PF200 TABLES ONLY



#### CAUTION

For Lift-Assist Backrest Tables; Do not sit on backrest section. The hood area under the backrest top is not designed for storage. DO NOT use this area for holding anything. Damage can occur to the table.

The PF250 & PF200 tables offer trendelenburg and height positioning with electronic ease. Operate the foot control as shown below to raise or lower the trendelenburg and height functions of the table.



## DIRECTIONS FOR USE

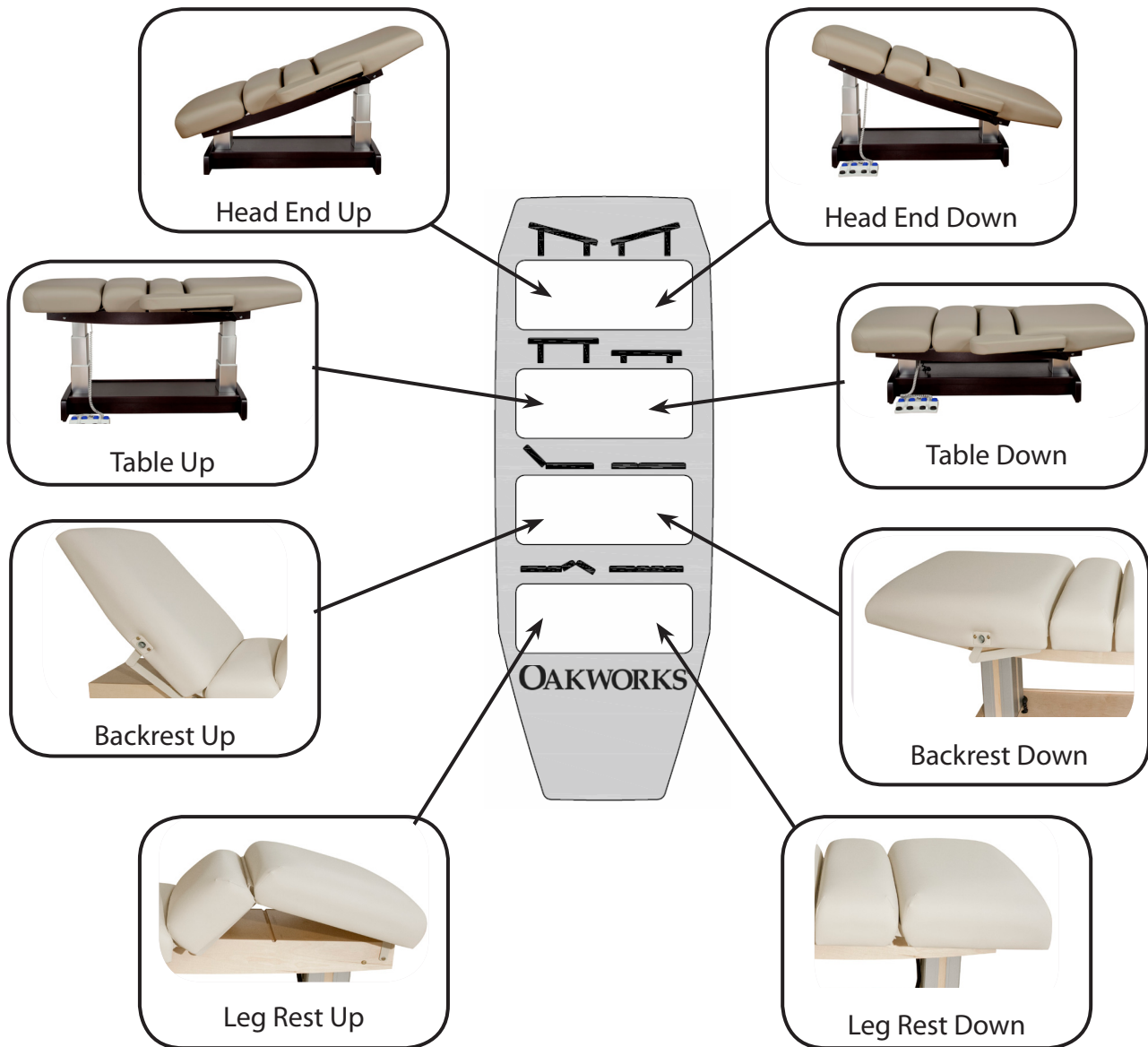
### OPTIONAL HAND CONTROL OPERATIONS - PF400 ONLY



#### CAUTION

Do not sit on backrest or footrest sections. The hood area under the backrest top is not designed for storage. DO NOT use this area for holding anything. Damage can occur to the table.

The PF400 Tables offer trendelenburg, height, backrest, and footrest positioning with electronic ease. Operate the optional hand control as shown below to raise or lower the trendelenburg, height, backrest or footrest functions of the table.



## DIRECTIONS FOR USE

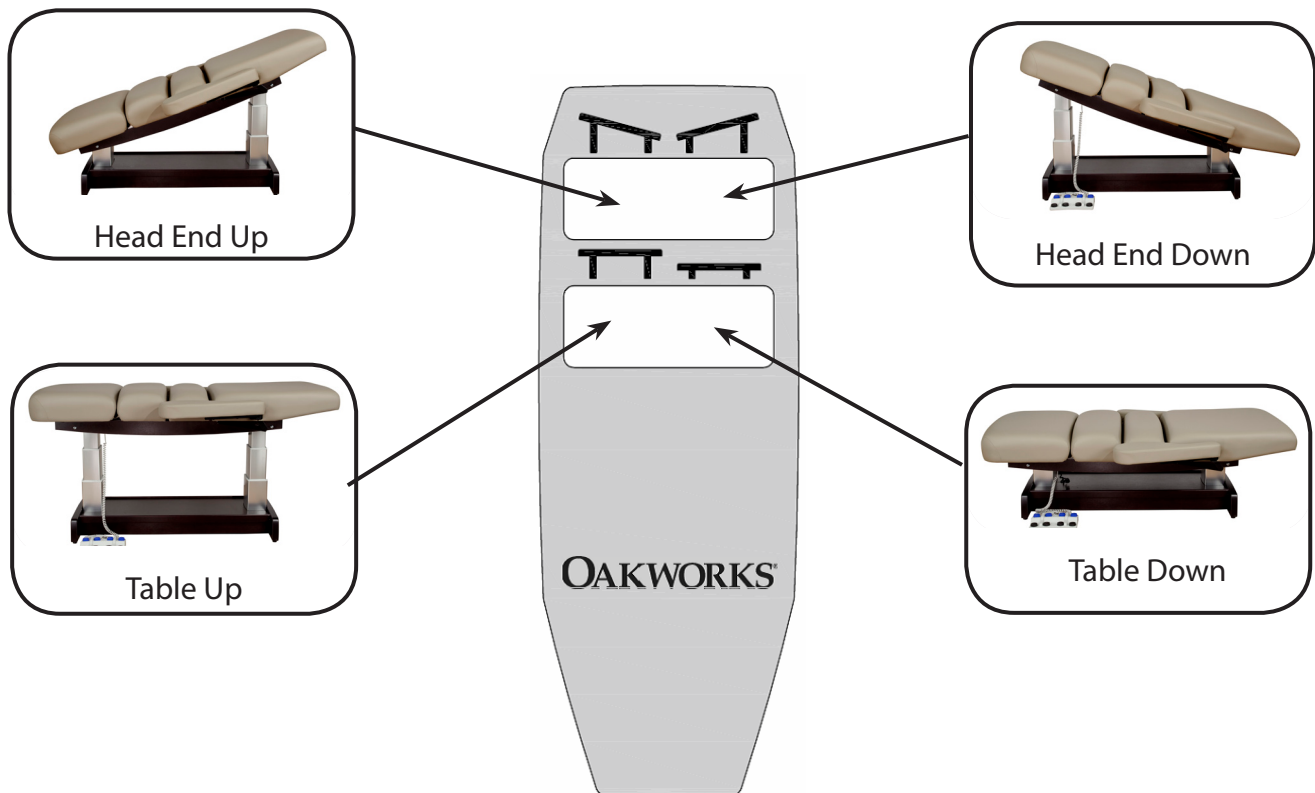
### OPTIONAL HAND CONTROL OPERATIONS - PF250 & PF200 TABLES ONLY



#### CAUTION

For Lift-Assist Backrest Tables; Do not sit on backrest section. The hood area under the backrest top is not designed for storage. DO NOT use this area for holding anything. Damage can occur to the table.

The PF250 & PF200 tables offer trendelenburg and height positioning with electronic ease. Operate the foot control as shown below to raise or lower the trendelenburg and height functions of the table.



## DIRECTIONS FOR USE

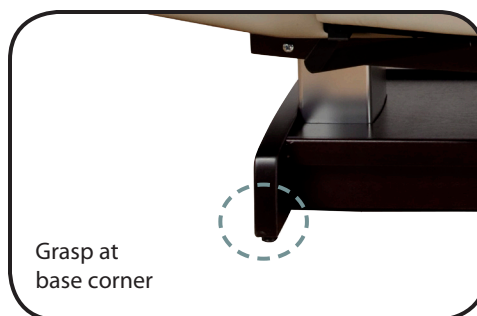
### MOVING THE TABLE



#### CAUTION

Before moving the table, disconnect the power cord from the power outlet. The table weighs as much as 235 lbs. (107 kg.) Never lift the table by grasping the table top. You could damage the table and the electronics that run the tabletop. Four people are required to move the table safely. Do not use the table to transport a patient.

When moving the table, place one person at each corner of the table. Have each person firmly grasp the base at the bottom and lift the table. Be aware and use proper, safe procedures for moving a table of this size to prevent injury to yourself or the table. We strongly recommend that a flatbed dolly be used that can hold the entire table when moving the table long distances.



### LEVELING THE TABLE

1. Place the table in the location where you plan to use it.

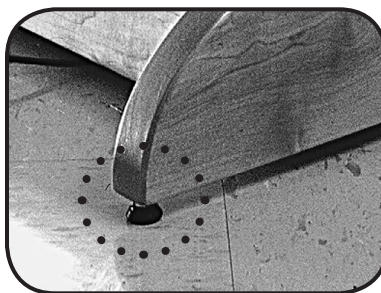
2. Rock the table to determine if it is level with the floor. If the table rocks back and forth at all, the foot that clears the floor when you rock the table will need adjustment.

3. Adjust the Leveler Foot by first loosening the locking nut found just above the rubber Leveler Foot with the open-end wrench.

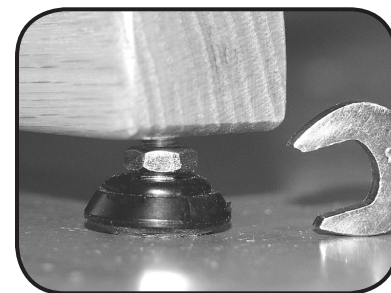
4. Lower the adjustable rubber Leveler Foot until it meets the floor snugly. Tighten the locking nut against the wooden leg of the table with the open-end wrench to fix the Leveler Foot in position.

5. Rock the table again to be sure adjustments have stabilized the table. If necessary make any additional adjustments in the same way.

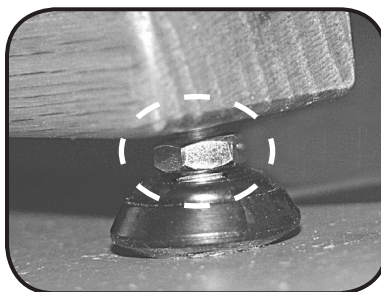
Leveler Foot



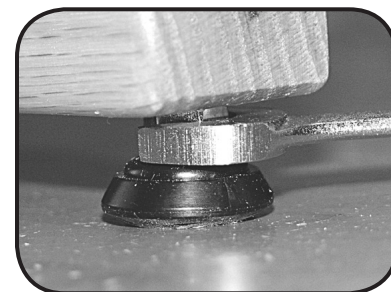
1/2" (13mm) Open end Wrench



Locking Nut



Tighten Locking Nut



## DIRECTIONS FOR USE

### LIFT-ASSIST BACK REST USE



#### CAUTION

Do not sit on the Backrest section.



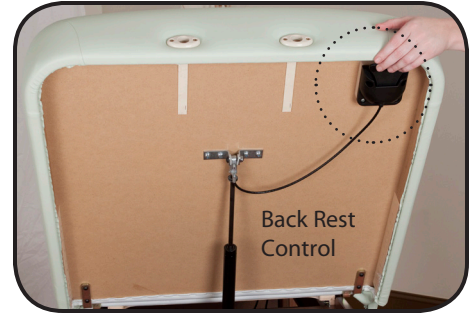
#### TO RAISE THE BACK REST

Raise the back rest by pressing the lever under the head section and lifting up to the desired height. It is recommended that clients take some of their weight off the back rest while you lift.



#### TO LOWER THE BACK REST:

Press the lever under the head section and push the back rest down.



#### TO CHANGE LEVER POSITION:

The back rest lever can be moved to the opposite side of the back rest by removing the screws and relocating the hand lever to the opposite side of the top into the four pre-drilled holes.

### LOWERED ARM REST USE



#### CAUTION

Do not sit on or put excessive weight or pressure on lowered arm shelf.

The Lowered Arm Rest can be removed when not in use and stored away. It can also act as a table extender, when used in place of the face rest or at the foot of the table. For complete use & care instructions see product instructions "Arm rest shelf instructions" included with the arm rest.



Lowered Arm Rest Shelf with Aroma-therapy, shown here with QuickLock™ Face Rest



Lowered Arm Rest shown here used as a table extender

## DIRECTIONS FOR USE

### LOCKING CASTERS USE

All casters should be locked during use with a patient.



#### LOCKING THE CASTERS

1. Place your shoe on the end of the casters locking tab.
2. Press firmly downward until you here a clicking noise and the caster is locked.



#### UN-LOCKING THE CASTERS

1. Place your shoe on top of the casters locking tab.
2. Press firmly inward and downward until you here a clicking noise and the caster is unlocked.

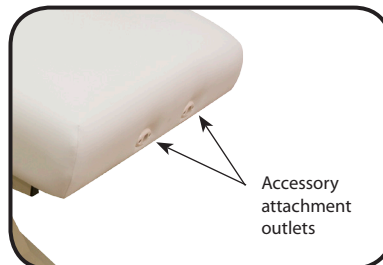
### TABLE EXTENDER USE



#### CAUTION

Do not put excessive weight or pressure on the table extender.

The Table Extender lengthens the table for your tallest clients and can improve access to your patient.



Locate the Accessory attachment outlets.



Insert the Table Extender tubes.



## DIRECTIONS FOR USE

### ADJUSTABLE ARM REST INSTALLATION AND ADJUSTMENT



#### CAUTION

Do not use the arm rest for patient support during the mounting or dismounting of the chair. The arm rest is not designed to support the patient's weight.

#### TO INSTALL THE ARM RESTS:

The Arm Rests adjust automatically as the back rest moves to remain parallel to the floor.



1. Insert end of arm rest into backrest hole while holding the arm rest at a 60° angle to the backrest.



2. Push end all the way into the hole and drop the arm rest into the horizontal position. Pull outward to make sure the arm rest is secure.

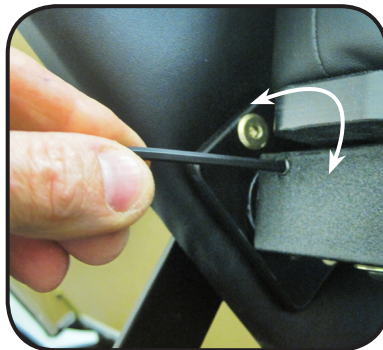


#### TO LEVEL THE ARM RESTS:

The Arm Rest height is adjusted at the factory for each table. If the armrest starts to sag with repeated use, follow the steps below to readjust.



1. Loosen the bottom 2 set screws.



2. Turn the side set screw (clockwise to raise or counter-clockwise to lower) while adjusting the arm rest. Lift the arm rest slightly when doing this adjustment to reduce the weight.



3. Tighten the two bottom set screws to lock the position.

## DIRECTIONS FOR USE

### QUICKLOCK FACE REST

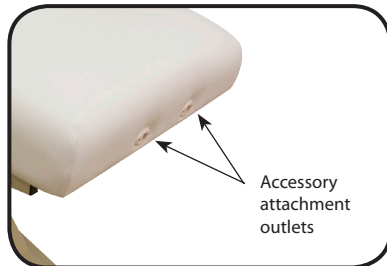
\* U.S. Patent #5,177,823



#### CAUTION

Do not put excessive weight or pressure on the Quicklock Face Rest. Do not extend the dowels of the Quicklock Face Rest 3" (7.6 cm.) from the Fowler (Backrest) section.

Double articulating action provides nearly limitless positioning options with the QuickLock™ Face Rest. The adjustable pad takes pressure off sensitive facial areas while providing superb support. The QuickLock™ Face Rest can be used in both prone and supine positioning and folds out of the way when not in use. Adjustments are made easily by loosening the cam locks, adjusting for height and angle and then locking the cam locks into the desired position.



**Important Safety Note:**  
Maximum Distance from edge of Table = 3" (7.6 cm.)



Insert dowels into Accessory attachment outlets.



Loosen Cam Locks & adjust face rest into place.



Tighten the Cam Locks.



The Face Rest can be used for either prone or supine positioning.

## CLEANING & DISINFECTION

### RECOMMENDED CLEANERS/DISINFECTANTS



#### DANGER

To reduce the risk of electric shock:

- Always unplug this furnishing from the electrical outlet before cleaning.

The following cleaners were tested by OAKWORKS® and found to be acceptably compatible with all materials used in construction of our tables:

1. Formula 409®
2. Fantastik®
3. Green Windex®

The following disinfectants were tested by OAKWORKS® and found to be acceptably compatible with all materials used in construction of our tables:

1. Parker Labs: Protex™ (EPA reg# 6836-152-82613)
2. Healthlink® E-Z Kill® (EPA reg# 59894-10-67454)
3. MADA Medical: Madacide-FD (EPA reg# 1130-15-11703)

The following disinfectants were tested by OAKWORKS® and found to be acceptably compatible with most materials, with some cautions as indicated:

1. 10% Sodium Hypochlorite (bleach) solution in water (EPA reg# 5813-100) (possible mild corrosion of plated metals)
2. Metrex Cavicide One (EPA reg# 46781-12) (possible slight deterioration of upholstery and wood lacquer)

OAKWORKS® recommends a prepackaged wipe for cleaners/disinfectants to ensure best distribution of disinfectant for the required kill time, without leaving excess residue and/or overexposing components therefore minimizing the potential for damage to materials. Please read and follow disinfectants manufacturers' directions for cleaning and disinfection.

The following disinfectants were tested by OAKWORKS® and found to be incompatible with some materials and are therefore NOT recommended for use:

1. Clorox Broad Spectrum Quaternary (EPA reg# 67619-20)(deterioration of upholstery, wood lacquer, plated metals)
2. Clorox Hydrogen Peroxide Disinfectant (EPA reg# 67619-24)(corrosion of metals, deterioration of upholstery and wood lacquer, leaves a hard-to-remove residue)
3. Virox Accel TB (EPA reg# 74559-1)(corrosion of metals, deterioration of upholstery and wood lacquer, leaves a hard-to-remove residue)
4. Clorox Healthcare Bleach Germicidal Cleaner (EPA reg# 56392-7)(deteriorates upholstery, wood lacquer, mild corrosion of metals, dissolves foam in pads)

OAKWORKS® does NOT recommend the use of cleaners/disinfectants containing Hydrogen Peroxide, Acetic Acid, or Phenolics. These chemicals can cause damage to the appearance and/or material integrity of various components. Also, while the recommended cleaners/disinfectants list includes products containing Quaternary Ammonium compounds ("quats"), not all products containing quats are approved for use. Some contain additional detergents and/or surfactants which can be detrimental to some materials.

A note on Bleach: While a 10% sodium hypochlorite (household bleach) solution (EPA reg# 5813-100 or equivalent) can be an effective disinfectant and is dilute enough to be benign to most materials, it alone is not an effective cleaner and a separate product must be used for the initial cleaning steps of the procedure. Because of possible chemical incompatibilities between various cleaning products and bleach, utmost care must be taken by the user to avoid potential exposure to harmful or toxic by-products of the combination. Also, because bleach leaves a potentially corrosive residue as it evaporates, it must be rinsed with clean water after disinfection. It is therefore NOT recommended by OAKWORKS®. Please note, one step cleaner/disinfectants using bleach and a detergent/ surfactant were found to damage materials and are NOT recommended.

### CLEANING PROCESS



#### DANGER

To reduce the risk of electric shock:

- Always unplug this furnishing from the electrical outlet before cleaning.

Follow the cleaners/disinfectant manufacturers' directions for use. Please note that cleaning and disinfecting an OAKWORKS® table is a two part process. First it must be cleaned of any visible soil, then it can be disinfected. The table should be cleaned as soon as possible after use. Please follow these procedures for best results:

1. Using a fresh wipe or wipes, clean any visible soil off of the table, working from the top to the bottom of the table.
2. Throw the used wipe(s) away.
3. Using a fresh wipe or wipes, thoroughly wipe all surfaces of the tabletop and any high-contact areas such as handles, handsets, etc., making sure they remain wet for the disinfectant manufacturer's recommended contact time.
4. Throw the used wipe(s) away and allow the table to dry.

### INSPECTIONS

RECOMMENDED REGULAR INSPECTIONS (monthly or local standard)

- Check for damage to the power, hand control(s) and foot control(s) on all cables.
- Visually inspect components for obvious damage that could cause problems during operation.

RECOMMENDED PERIODIC INSPECTIONS (yearly or local standard)

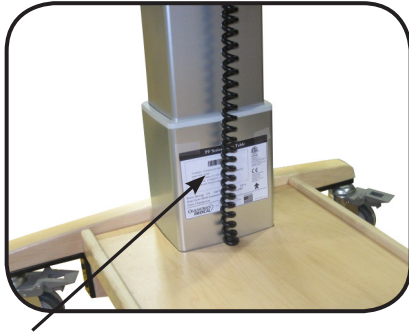
- Check for damage to the power, hands control and foot control cables and all visible wiring.
- Visually inspect components for obvious damage that could cause problems during operation.
- Check all mechanical functions using the hand control. Repeat using the foot control. Check for abnormal noises.
- Check that all fasteners are present and fastened securely.
- Check table grounding.
- Clean unusual buildup of dirt on the table and/or parts of the table not normally cleaned on a regular basis.
- Check for tears or cracks in the upholstery.

### WARRANTY

View complete warranty details at [www.oakworks.com](http://www.oakworks.com)

# MODEL NUMBER & SERIAL NUMBER


## MODEL & SERIAL NUMBERS




The model number and serial numbers are located on the lift column at the foot end of the table.

Model Number      Serial Number

**PF Series Tables**


  
 16796025 PMEXES312572ACTTVNF8  
 SER#: PEX123456  
 PF400 SALON 31 X 25-35 X 72 AC/TT/VN/MP/F8  
 TTSKYBLUE 01/04/2013 ORDER#:654321  
 NOTES: SAMPLE PRODUCT LABEL



120V~ 60Hz  
 4.0 Amps Max  
 CONFORMS TO:  
 ANSI/AAMI  
 STD ES60601-1  
 IEC STD 60601-1-6  
 Certified to  
 CAN/CSA STD  
 C22.2 No. 60601-1  
**Intertek**  
 3034177

230V~ 50/60Hz  
 1.0 Amps Max  
 2.0 Amps Max  
 2.1 Amps Max  
 3.0 Amps Max

**Class 1 Equipment**  
**Duty Cycle:**  
**MAX 2 minutes ON**  
**18 minutes OFF**

**OAKWORKS, Inc.**  
 923 East Wellspring Rd.  
 New Freedom, PA 17349 USA  
 Phone: 717-235-6807  
[www.oakworks.com](http://www.oakworks.com)

made in the USA 

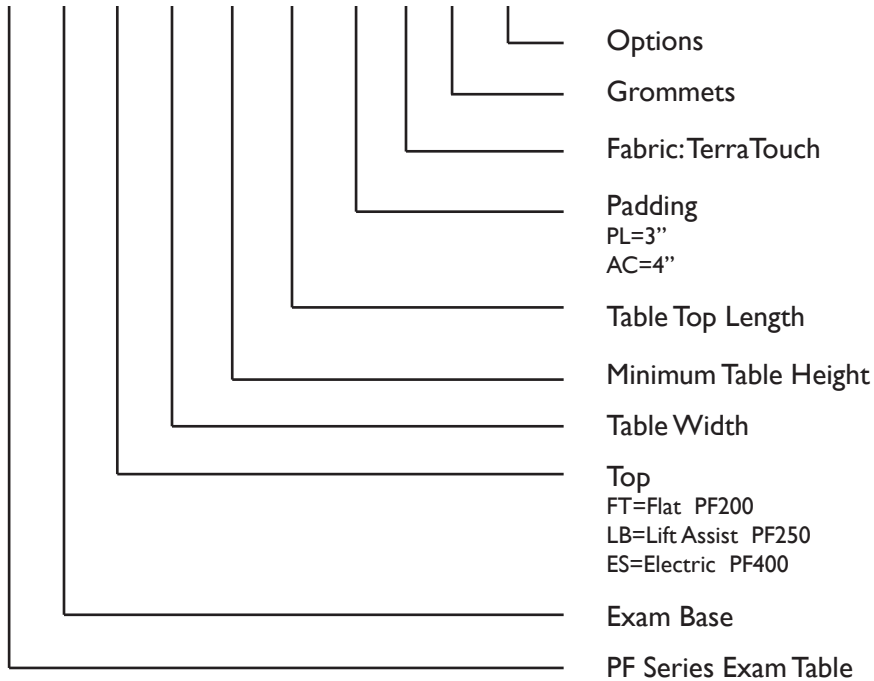
 

Part No. CN70537-13 - Rev. 1

Model and Serial numbers always start with a letter.

## MODEL NUMBER DESCRIPTION



P M E X E S X X X X X X A C T T Z Z X X



## SPECIFICATIONS

PRODUCT SPECIFICATIONS	
Weight	235 lbs. (107 kg.)
Shipping Weight	325 lbs. (148 kg.)
Lifting Capacity	550 lbs. (250 kg.)

ENVIRONMENTAL CONDITIONS			
Conditions	Temperature	Humidity	Atmospheric Pressure
Normal Use	50° (10°C) to 104° (40°C)	20% to 60% RH	98 to 105 kPa
Storage & Transport	-20° (-29°C) to 135° (57°C)	20% to 95% RH	98 to 105 kPa

ELECTRICAL SPECIFICATIONS		
Designed for:	North America	Europe
Input Service	120 VAC/15 amp/60 Hz	220 VAC/10 amp/50/60 Hz
Current Draw	4.0 amps	2.0 amps
Maximum Momentary Current Consumption	6.0 amps	3.0 amps
Voltage Output to Actuators	24 VDC	24 VDC
Electric Shock Protection	Class 1 Equipment	Class 1 Equipment
Tabletop Applied Part	 Type B Applied Part	 Type B Applied Part
Ingress Protection Rating	IPX0	IPX0
Made of Operation	Intermittent Operation MAX 2 minutes ON 18 minutes off	Intermittent Operation MAX 2 minutes ON 18 minutes off

## SPECIFICATIONS

### Guidance and manufacturer's declaration - electromagnetic emissions

The table is intended for use in the electromagnetic environment specified below. The customer or the user of the table should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The table uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The table is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

### Recommended separation distances between portable and mobile RF communications equipment and the table

The table is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the table can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the table as recommended below, according to the maximum output of the communications equipment.

Rated maximum output power of transmitter  W	Separation distance according to frequency of transmitter (m)		
	150 kHz to 80 MHz  $d = 1.2 \sqrt{P}$	80 MHz to 800 MHz  $d = 1.2 \sqrt{P}$	800 MHz to 2.5 GHz  $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.37	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance  $d$  in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where  $P$  is maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

## SPECIFICATIONS

### Guidance and manufacturer's declaration - electromagnetic immunity

The table is intended for use in the electromagnetic environment specified below. The customer or the user of the table should assure that it is used in such an environment.

Immunity Test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common mode	±1 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95 % dip in UT) for 0,5 cycle  40 % UT (60 % dip in UT) for 5 cycles  70 % UT (30 % dip in UT) for 25 cycles  <5 % UT (>95 % dip in UT) for 5 sec	<5 % UT (>95 % dip in UT) for 0,5 cycle  40 % UT (60 % dip in UT) for 5 cycles  70 % UT (30 % dip in UT) for 25 cycles  <5 % UT (>95 % dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the table requires continued operation during power mains interruptions, it is recommended that the table be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A / m	3 A / m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.


NOTE  $U_T$  is the a.c. mains voltage prior to application of the test level.



## SPECIFICATIONS

### Guidance and manufacturer's declaration - electromagnetic immunity

The table is intended for use in the electromagnetic environment specified below. The customer or the user of the table should assure that it is used in such an environment.

Immunity Test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of the table, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1.2 \sqrt{P}$ <p><math>d = 1.2 \sqrt{P}</math> 80 MHz to 800 MHz  <math>d = 2.3 \sqrt{P}</math> 800 MHz to 2,5 GHz</p> <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup>should be less than the compliance level in each frequency range. <sup>b</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3V/m	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the table is used exceeds the applicable RF compliance level above, the table should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the table

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

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# USER MANUAL

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## OAKWORKS® PF Series Tables

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**Intertek**

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CONFORMS TO:  
ANSI/AAMI STD E560601-1  
IEC STD 60601-1 3RD EDITION  
IEC STD 60601-1-2 3RD EDITION  
IEC STD 60601-1-6 3RD EDITION  
CERTIFIED TO CAN/CSA STD C22.2 NO. 60601-1  
CB TEST CERTIFICATE AND REPORT

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