



OWNER'S OPERATING AND MAINTENANCE MANUAL



TMM4 PLUS

W	Wide
T	Tall
R	Rail on Back Section
Q	Scale
L	Low
G	ENG Headpiece
F	Folding Footrest
B	Battery
A	AC Power



TMM4 PLUS-X

TMM4 PLUS & TMM4 PLUS-X

MULTI-PURPOSE PROCEDURE-CHAIR SERIES

1-800-237-3377

CHAMPIONCHAIR.COM



IMPORTANT

READ AND FAMILIARIZE YOURSELF WITH ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!

Do NOT install, maintain or operate this equipment without reading and following this manual, otherwise injury and/or damage may result.

IF YOU HAVE ANY QUESTIONS OR CONCERNS, PLEASE CONTACT CHAMPION MANUFACTURING, INC.

Champion assumes no responsibility for damage or injury caused by improper assembly, installation, use, or maintenance of these products.

No part of this manual may be duplicated in any form without the prior consent of Champion Manufacturing, Inc. Unauthorized duplication/distribution of these materials may result in civil prosecution to the maximum extent allowed by law.

The information contained in this manual is subject to change without notice.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE!

These instructions are available online at no charge.
Visit ChampionChair.com to download.

SYMBOLS



FOLLOW INSTRUCTIONS



GENERAL WARNING/DANGER



PINCH-POINT WARNING

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INTENDED USE STATEMENT

TMM4 Procedure-Chairs are intended for use in patient treatment, transport and/or recovery within a hospital, clinic, same-day/ambulatory surgery center, or similar environment.

The pendant control is **NOT INTENDED FOR PATIENT USE**.

A surgeon and/or clinician must always rely on his or her own clinical knowledge when deciding whether to use a TMM4 Procedure-Chair when treating a patient.

TRANSPORTATION, STORAGE, HANDLING & DISPOSAL

- The product should be transported in factory packaging, inside an appropriate medium for the destination, i.e., air/sea cargo containers.
- The product should be stored in an environment that will inhibit rust/mold formation.
- "A" Model chairs – Champion Manufacturing, Inc. recommends not leaving the product in storage in excess of two (2) months. Permanent battery damage could result.
- The product should always be handled in a manner consistent with the user instructions and in a manner to prevent contamination after each use.
- The product has many recyclable components and to the extent practical, all effort should be used to recycle responsibly. Otherwise the product components shall be disposed of in accordance with local statutes.

PREPARATION: BEFORE YOU BEGIN

1. Carefully examine your product for any damage. Be sure to inspect all components.
IF DAMAGE IS EVIDENT, CONTACT FREIGHT CARRIER OR CHAMPION IMMEDIATELY.
2. Remove all packaging material and any hardware that was secured for shipping.
3. Carefully remove all components and any included tools and/or parts from the carton.
4. You may need to cut packaging materials with a box cutter or scissors to access the product. Use **CAUTION** to avoid personal injury or damage to the product.
5. Save all boxes and packaging material until **AFTER** you have assembled your product and have verified that all components are functioning properly. These materials are required if it becomes necessary to return the product.
6. **DO NOT** install, maintain or operate this equipment without reading and following this manual otherwise injury and/or damage may result. **IF YOU HAVE QUESTIONS OR CONCERNS PLEASE CONTACT CHAMPION MANUFACTURING, INC .**

CHAMPION ASSUMES NO RESPONSIBILITY FOR DAMAGE OR INJURY CAUSED BY IMPROPER ASSEMBLY, INSTALLATION, USE, OR MAINTENANCE OF THESE PRODUCTS.

POWER/CABLE REQUIREMENTS

Only use the power/charging cord that came with your product.

See also sections for options A & B for additional details regarding powering this product.

SAFETY PRECAUTIONS



WARNINGS

CHAIR OPERATION BY QUALIFIED, TRAINED MEDICAL PERSONNEL ONLY

The chair is intended to be operated only by qualified, trained medical staff. Operation of chair by unauthorized, untrained and/or lay people must be avoided.

USE CAUTION ON RAMPS

Control chair when traversing ramps. If a collision occurs, serious injury to patient, bystanders, or medical personnel and damage to chair or medical facility could occur.

LOCK CASTERS BEFORE PATIENT EGRESS/INGRESS

Prior to patient egress / ingress, casters must be locked by depressing red tab completely down on either left- or right-side brake pedal.

AVOID PINCH POINTS AND OTHER INJURIES

To prevent serious injury, ensure extremities of patient and bystanders are clear of all mechanical systems when operating motors for lift and positioning functions.

To prevent pinch/crush injury, ensure extremities of patient and bystanders are clear of locking mechanism when raising and lowering side rails.

To prevent patient strangulation, use approved hand pendant storage location when not in use. See PENDANT section for additional information.

BATTERY CAN EXPLODE DUE TO OFF-GASSING WHEN CHARGING

At end of charging process (or with overcharge conditions), battery can produce mixture of explosive gases (Including hydrogen and oxygen). Avoid exposing battery to open flames, cigarettes, sparks, and Incandescent materials.

Never charge battery in enclosed, unventilated spaces.

Do NOT store battery in sealed container. Store in fresh, well-ventilated area protected from direct sunlight and heat sources.

Do NOT use water to extinguish battery fire. Use dry powder, foam CO2 extinguisher.

SAFETY PRECAUTIONS – CONTINUED

WARNING IMPORTANT: PLEASE READ

USE CAUTION WHEN STORING OXYGEN CYLINDER UNDER CHAIR

To prevent severe gas leakage or rupture of compressed gas cylinder, when placing cylinder under chair, ensure adequate clearance between cylinder and its attached gas equipment (i.e. regulator, gauges, fittings, knobs) and all adjustable chair sections and/or features (i.e. seat, back, leg, rails, actuators).

To prevent fire and/or explosive hazard, do not leave chair (and stowed oxygen equipment) near heat source.

To prevent gas equipment damage during transport, ensure cylinder sets in cradle properly and strap mechanisms are secured tightly. Chair is intended to accommodate up to an E-size cylinder (4 3/8" outer diameter x 25" length).

DO NOT PLACE EXCESSIVE WEIGHT ON ENDS

Position patient's body weight uniformly over the patient surface. Use caution when shifting patient's body weight towards either end of the Procedure-Chair. Excessive weight on either end of the device could cause the Procedure-Chair to become unstable.

Do not sit or stand on the ends of the Procedure-Chair. Instruct patients to not stand on footrest during egress or ingress.

Due to the unique nature of each patient's body shape, caregiver should exercise sound judgment when positioning patient on the device.

SAFETY PRECAUTIONS – CONTINUED



WARNING IMPORTANT: PLEASE READ

ACCESSORY WARNINGS

- To prevent serious injury and property damage, review Operating Manuals for all medical equipment and accessories that may be used with, or attached to, this chair.
- Using the supplied accessories in the incorrect manner may cause patient, bystander, or facility harm.
- If chair is equipped with accessory belts, refer to the appropriate Field Installation and Usage Instructions (provided with belts) for proper installation, use, and care.
- To prevent fire hazards, follow all precautions and operating procedures prescribed by suppliers of oxygen administering equipment (i.e. oxygen gas regulators, tents, masks, cannulas, etc.)
- To prevent injury and property damage, total weight of items placed on “IV” pole must be less than 25 pounds.
- If mounting accessories to back surgical rails, ensure accessory is properly installed and securely engaged prior to transporting patient or chair and prior to use. Only equipment approved by Champion is to be mounted on surgical rails. Champion Manufacturing, Inc. is not responsible for damage and assumes no liability caused by the use of unapproved equipment or accessories. Approved medical equipment includes tools, instruments, or scopes that are compatible with a 0.365” thick by 1.125” wide surgical rail.

SAFETY PRECAUTIONS – CONTINUED



WARNING IMPORTANT: PLEASE READ

CAUTIONS

DO NOT MODIFY CHAIR

Modifying chair can cause unpredictable operation resulting in injury to patient, medical personnel, or bystander. Modifying chair will void warranty and may cause unsafe operating conditions.

USE SAFE OPERATING PROCEDURES

Prior to operating chair, ensure patient clearance by moving any overhanging equipment or moving chair from under a table to prevent patient injury.

For TMM4 PLUS, chair must be at least 20 inches from nearest wall or obstruction to allow for full range of activation.

Leave chair in lowest position whenever possible. This practice will decrease potential injury during an unsupervised patient egress from chair.

Prior to patient transport in chair, raise side rails and ensure latching mechanism is in locked position. Medical personnel must determine degree of restraint needed to ensure patient's safety during transport.

For "F" Option Only: Since footrest is foldable (not locked in position), ensure protection of patient's feet while moving chair in close quarters (i.e. elevators, crowded hallways, procedure rooms).

INSPECT AND CLEAN CHAIR REGULARLY

Inspect cushions after each use. Discontinue use if upholstery is ripped, cut, or torn, which could allow fluids to enter cushion. This practice will prevent infection of patients and medical personnel and contamination of medical equipment.

Do NOT use machine/pressure/power wash procedures on chair. After each use in a clinical setting, hand wash all patient-contact surfaces (i.e. cushions, rails) and plastic base cover with warm water and mild detergent.

For "A" Option Only: For large fluid spills on chair, immediately unplug chair from AC wall outlet.

PLUG CHAIR INTO PROPERLY GROUNDED WALL OUTLET MARKED "HOSPITAL ONLY" OR "HOSPITAL GRADE"

For "A" Option Only: Chair is equipped with hospital-grade three-prong plug for protection against electric shock and must be plugged into properly grounded hospital-grade wall outlet.

MAXIMUM WEIGHT OF BACK SURGICAL BAR

The maximum weight capacity of each back surgical bar is 50 pounds. To prevent personal injury to patient, do not mount equipment weighing more than 50 pounds to device. Weight of patient plus weight of equipment should not exceed 500 pound weight capacity of the Procedure-Chair.

SAFETY PRECAUTIONS – CONTINUED



WARNING IMPORTANT: PLEASE READ

EMI CAUTIONS

EMI MAY AFFECT CHAIR FUNCTIONALITY

Chair may be susceptible to EMI (Electromagnetic Interference) caused by electromagnetic energy emitted from various sources, such as, radio and television stations, amateur radio (HAM) transmitters, citizen band (CB) radios, hand-held “walkie-talkies”, security/police/fire transceivers and other communication devices. EMI can cause chair to move by itself, or in an unintended fashion and can damage control system(s).

Intensity of interfering energy is measured in V/m (volts per meter). Chair can resist EMI up to a certain intensity, called its “immunity level”. When the immunity level is higher, the less likely EMI will interfere with chair operation. The chair has been certified to IEC 60601-1-2 Ed 4.1 Electromagnetic Disturbances – Requirements And Tests.

In clinical environments devices can emit electromagnetic energy which becomes more intense as one moves closer to energy source. To reduce chance of unintended movement or operation of chair, observe the following:

- Be aware of nearby high-power transmitters (radio and TV stations), MRI (magnetic resonance imaging) systems, and NMR (nuclear magnetic resonance) imaging systems. Keep chair away from these areas.
- Do not operate hand-held transmitters near chair.
- Do not operate chair near others using hand-held transmitters.
- If unintended chair movement occurs, disconnect battery and move chair away from location.

SAFETY PRECAUTIONS – CONTINUED



WARNING IMPORTANT: PLEASE READ

IMPORTANT

MAXIMUM PATIENT WEIGHT IS 500 lbs (227 kg)

Maximum patient weight capacity of chair is 500 pounds. If exceeded, damage to chair could occur.

CHAIR IS INTENDED FOR INDOOR USE ONLY

To ensure proper operation and extend chair life, only use chair in specified environment.

USE CDC'S UNIVERSAL PRECAUTIONS

When maintaining chair after clinical use, service personnel must use UNIVERSAL PRECAUTIONS as defined by CDC (Centers for Disease Control and Prevention).

MAINTAIN CHAIR REGULARLY

To ensure proper operation and extend chair life, inspect, maintain, and service chair on a regular basis. Inspection, maintenance, and service details are located later in this manual.

REMOVE BATTERY DURING CHAIR STORAGE

For “B” Option Only: If chair is to be stored or not in use for four (4) days or more, remove battery pack from chair. Refer to Battery Charger Installation and Usage Instructions (IM TMA57-15), under the “Cautionary Usage Instructions” section, for more information.

For “A” Option Only: If chair is to be stored or not in use for four (4) days or more, leave chair plugged into an AC wall outlet or unplug battery from control box. For more information, refer to “A” Option section below.

USE ONLY FACTORY APPROVED BATTERIES

Use of unapproved batteries will void warranty.

PRODUCT LABELS/DIAGRAMS (TMM5 PLUS-B SHOWN)



WARNING

INSPECT LABELS PERIODICALLY

Every three (3) months, inspect all labels and ensure they are legible and not tattered, torn or missing.

Refer to the label locations in figure below. If labels need replacing, contact Champion Customer Service at 1-800-237-3377.

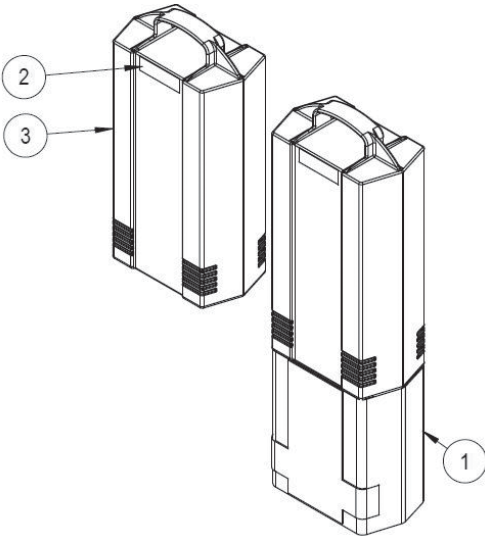
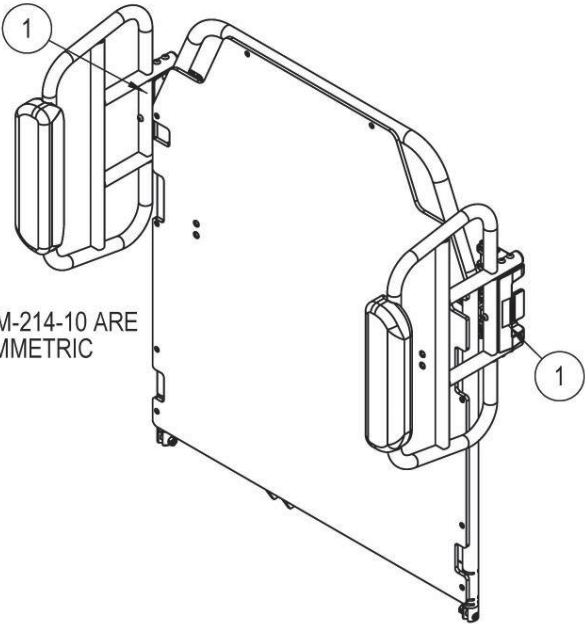
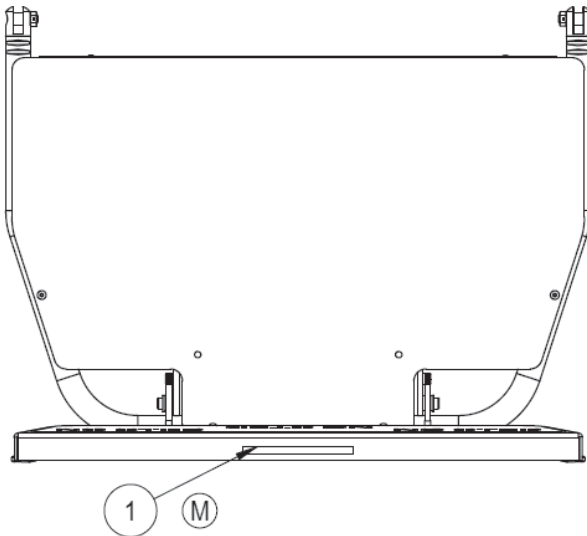
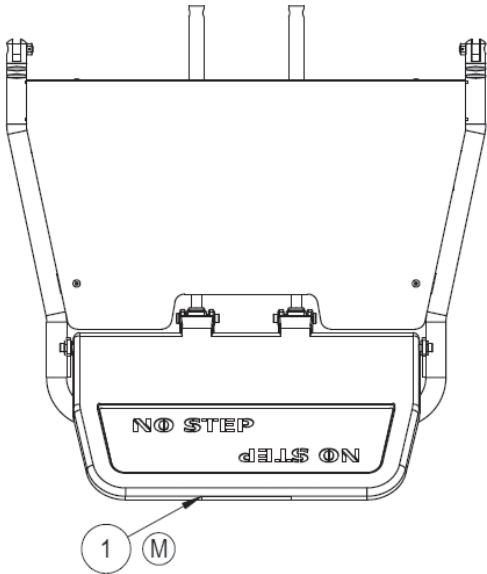


3 - Back Quick Release
Lever & Label on
RIGHT side only



Item No.	Part No.	Description	Qty
12	TMM-2449-10	TMM4 X Plus Base Cover Label (Side)	2
11	TMM-2446-10	TMM4 Plus Base cover label (side)	2
10	TMM-2448-10	Label Base Cover	1
9	TMM-2247-10	Label, QR Code TMM Videos	1
8	TMM-1216-10	Blank Serial Number Label	1
7	TMM-754-10	Max Weight Label 500 lb	1
6	TMM-684-10	Cover Clearance Caution Label (X-Model Only)	1
5	TMM-214-10	Product Label – Small	2
4	TMM-209-10	Serial Number Overlay	1
3	TMM-207-10	Backrest Quick Release Label	1
2	TMM-205-10	Aluminum Equivalency Label	1
1	TMM-2535-10	Chair End Warning Label	4

OPTIONS

BATTERY OPTION DESIGNATOR. "B"  <table><tr><td>3</td><td>TMM-311-03</td><td>Mobillette Battery Pack</td><td>2</td></tr><tr><td>2</td><td>TMM-214-10</td><td>Product Label - Small</td><td>2</td></tr><tr><td>1</td><td>TMA57-15</td><td>Universal Charger Assembly</td><td>1</td></tr><tr><td>ITEM NO.</td><td>PART NO.</td><td>DESCRIPTION</td><td>QTY.</td></tr></table>				3	TMM-311-03	Mobillette Battery Pack	2	2	TMM-214-10	Product Label - Small	2	1	TMA57-15	Universal Charger Assembly	1	ITEM NO.	PART NO.	DESCRIPTION	QTY.	UPPER SIDE RAIL OPTION DESIGNATOR. "R"  TMM-214-10 ARE SYMMETRIC <table><tr><td>1</td><td>TMM-214-10</td><td>Product Label - Small</td><td>2</td></tr><tr><td>ITEM NO.</td><td>PART NO.</td><td>DESCRIPTION</td><td>QTY.</td></tr></table>				1	TMM-214-10	Product Label - Small	2	ITEM NO.	PART NO.	DESCRIPTION	QTY.
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FOLDING FOOTREST OPTION DESIGNATOR. "F"  <table><tr><td>1</td><td>TMM-2535-10</td><td>Chair End Warning Label</td><td>1</td></tr><tr><td>ITEM NO.</td><td>PART NO.</td><td>DESCRIPTION</td><td>QTY.</td></tr></table>				1	TMM-2535-10	Chair End Warning Label	1	ITEM NO.	PART NO.	DESCRIPTION	QTY.	ARTICULATING FOOTREST OPTION DESIGNATOR. "NON-F"  <table><tr><td>1</td><td>TMM-2535-10</td><td>Chair End Warning Label</td><td>1</td></tr><tr><td>ITEM NO.</td><td>PART NO.</td><td>DESCRIPTION</td><td>QTY.</td></tr></table>				1	TMM-2535-10	Chair End Warning Label	1	ITEM NO.	PART NO.	DESCRIPTION	QTY.								
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ITEM NO.	PART NO.	DESCRIPTION	QTY.																												

OPERATING INSTRUCTIONS

QUICK RELEASE BACK SECTION

1. LOCATE RELEASE LEVER

Back section quick release (red) lever is located under seat on patient's right side. (Fig. 1)

2. ACTIVATE RELEASE LEVER

To activate back section quick release, pull red lever out towards the arm rail. When weight is applied, back section will drop until lever is released. (Fig. 2)

NOTE: Quick release feature is intended for emergency purposes only.

PRIOR TO PERFORMING CHEST COMPRESSIONS ON A PATIENT, FIRST AND FOREMOST, THE PATIENT SHOULD BE MOVED TO A MORE STABLE, NON- PADDED PLATFORM. SECONDARILY, IF ATTEMPTING TO PERFORM CHEST COMPRESSIONS ON THE TMM DEVICE, THE PATIENT SHOULD BE PLACED ON A BACK BOARD AND POSITIONED ON THE CHAIR SO THE PATIENT'S CHEST CAVITY IS OVER, OR AS CLOSE TO, THE COLUMN SUPPORT AS POSSIBLE. IT IS THE RESPONSIBILITY OF THE MEDICAL PROFESSIONAL TO DETERMINE WHETHER CPR CAN BE EFFECTIVELY PERFORMED ON THIS CHAIR ON A CASE-BY-CASE BASIS.



DO NOT TWIST OR ADJUST THE DAMPER. (Fig. 3) DOING SO COULD RESULT IN THE BACK RELEASE LEVER FUNCTIONING IMPROPERLY DURING AN EMERGENCY.

NOTE: To ensure proper operation, activate quick release every thirty days. If quick release does not operate properly, please contact Customer Service at 1-800-237-3377.

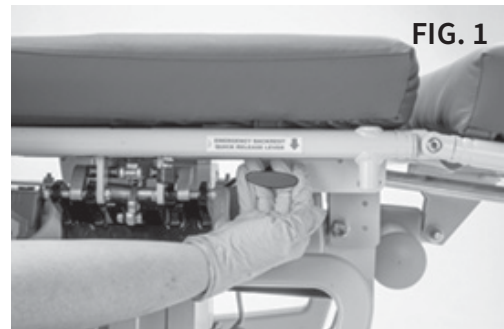


FIG. 1



FIG. 2

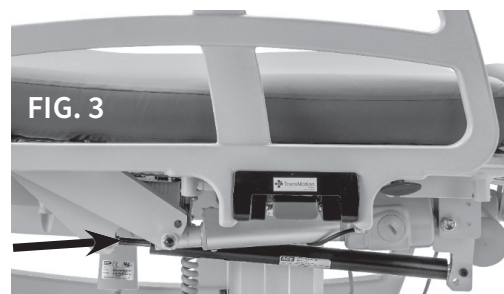


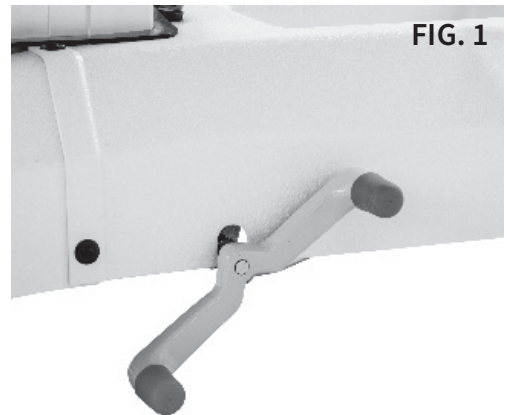
FIG. 3

CASTER BRAKE OPERATION

BRAKE MODE

Activate braking system by pressing down on red end of either brake pedal located at base of chair.(Fig. 1)

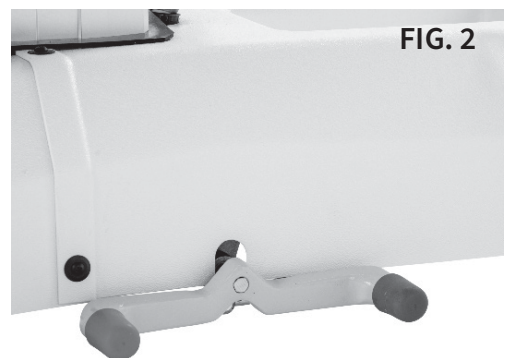
NOTE: This mode prevents all four casters from swiveling and all wheels from spinning.



NEUTRAL MODE

Activate neutral mode by placing either brake pedal into a horizontal orientation. (Fig. 2)

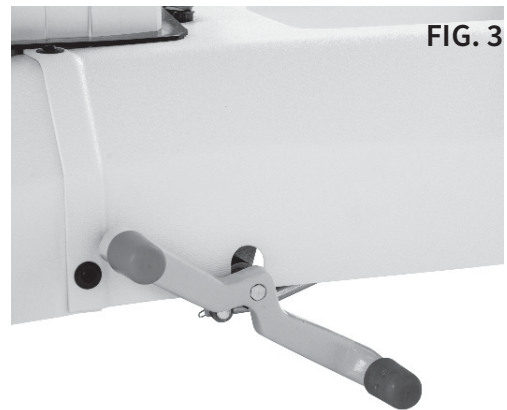
NOTE: This mode allows all four casters to swivel and all wheels to spin freely.



STEER MODE

Activate steer-locking system by pressing down on green end of either brake pedal located at base of chair. (Fig. 3)

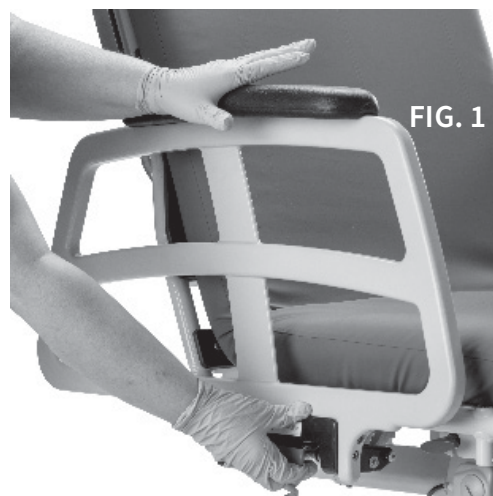
NOTE: This mode locks caster (near patient's right foot) parallel to base, but allows this wheel to spin. Other three casters swivel, and wheels spin freely.



SIDE RAIL OPERATION

LOWERING SIDE RAIL

Grasp top of side rail and push inward slightly, while pulling out red rail release tab. Once released, lower rail. (Fig. 1)



STOWING SIDE RAIL

To stow side rail, lower rail into “down” position below seat (or back section depending on rail location). (Fig. 2)



RAISING SIDE RAIL

Lift side rail until it is in “up” position. (Fig. 3)

NOTE: Red rail release tab will engage (lock) automatically. Ensure side rail is secure by pulling on rail after it is raised.



ADJUSTING SIDE RAIL ANGLE

1. Remove seat cushion to expose access holes in seat pan.
2. Loosen top jam nut found in access holes.
(Seat pan is not shown in image for instruction purposes only and to allow visibility of jam nut).
3. To move inward, rotate bottom jam nut as shown.
4. To move outward, rotate bottom jam nut as shown.
5. Once aligned, tighten top jam nut.

IMPORTANT

- You do not need to hold bottom nut to tighten top. Once aligned, top nut is tightening nut.
- When adjusting, ensure bottom jam nut is contacting seat frame.
- Ball joint head angle does not matter.
- Prior to adjustment, pull outward on side rail in order for system to settle.
- Ensure top jam nut engages at least two full threads.
- Do not over tighten top jam nut (there is no need).

6. Reattach seat cushion.

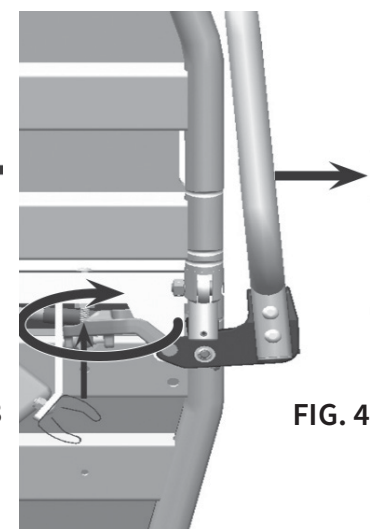
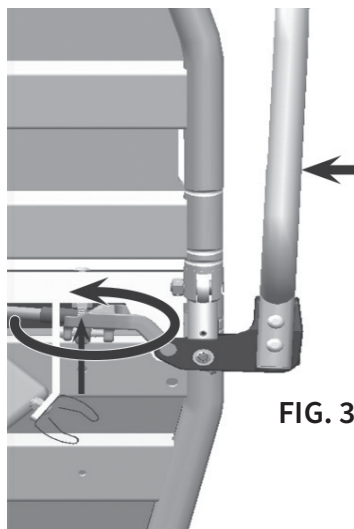
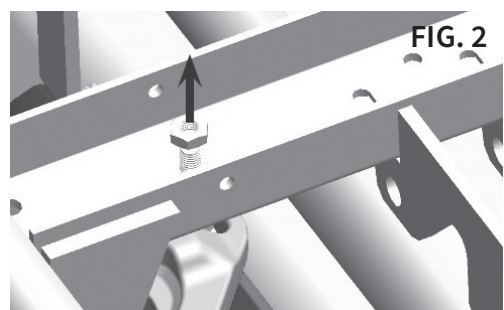
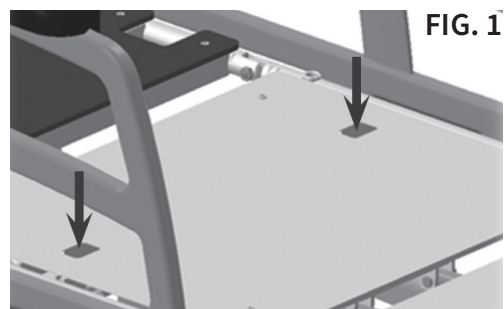


FIG. 6



FIG. 5

PENDANT (CONTROLLER)



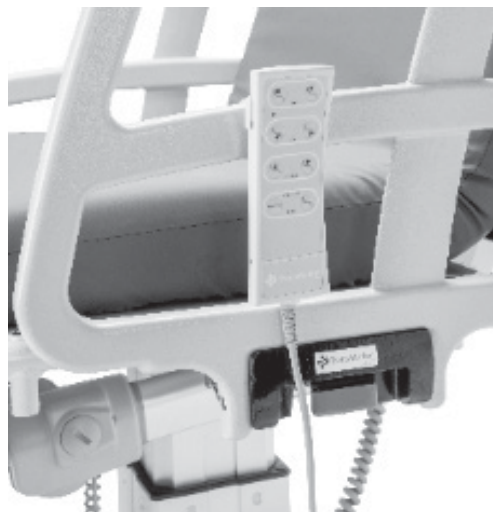
PENDANT IS NOT INTENDED FOR PATIENT'S USE

To prevent damage, pendant can be stored at various locations on the chair when not in use.



ENSURE AREA IS CLEAR OF OBSTRUCTIONS PRIOR TO PENDANT USE

To prevent property damage or injury to patient, survey area for possible obstructions prior to pendant use.



PENDANT (CONTROLLER) – CONTINUED

BACK SECTION ADJUSTMENT

First row of pendant buttons adjusts angle of back section.

- Press left button to raise chair back.
- Press right button to lower chair back.

LEG SECTION ADJUSTMENT

Second row of pendant buttons adjusts angle of leg section.

- Press left button to raise chair's leg section.
- Press right button to lower chair's leg section.

SEAT HEIGHT ADJUSTMENT

Third row of pendant buttons adjusts height of seat section.

- Press left button to raise chair's seat.
- Press right button to lower chair's seat.

SIMULTANEOUS LEG AND BACK SECTION (AUTO CONTOUR) OPERATION

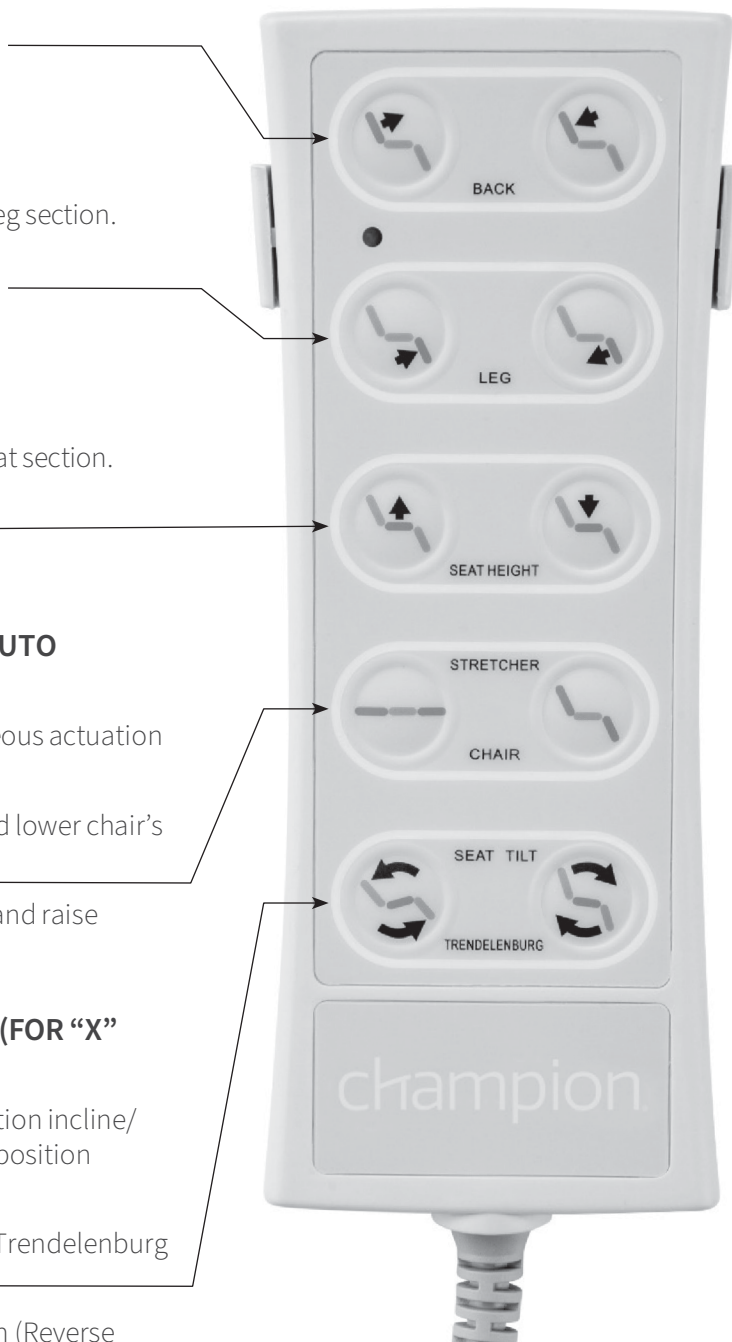
Fourth row of pendant buttons controls simultaneous actuation of leg and back sections.

- Press left button to raise chair's leg section and lower chair's back, resulting in stretcher configuration.
- Press right button to lower chair's leg section and raise chair's back, resulting in chair configuration.

SEAT TILT/TRENDELENBURG ADJUSTMENT (FOR "X" MODEL OPTIONAL)

Fifth row of pendant buttons controls the seat section incline/recline or Trendelenburg/reverse Trendelenburg position depending on chair.

- Press left button to raise front of seat section (Trendelenburg in Stretcher position).
- Press right button to lower front of seat section (Reverse Trendelenburg in Stretcher position).



PATIENT INGRESS/EGRESS



PATIENT SHOULD NEVER BE PERMITTED TO ENTER / EXIT FROM ENDS OF PROCEDURE CHAIR WHEN IN AN UPRIGHT, PARTIALLY, OR TOTALLY RECLINED POSITION. EXCESSIVE WEIGHT ON ENDS COULD CAUSE CHAIR TO TILT, RESULTING IN POSSIBLE PATIENT INJURY.

IMPORTANT: Follow these instructions for safe and proper patient ingress (entry onto chair) and egress (exit from chair).

- a. Patient ingress and egress should always be made with chair in upright-chair position.
- b. Patient must enter and exit from side of chair with their body weight centered over seat section.
- c. See PATIENT TRANSFER section for instruction on transferring patient from one horizontal surface to another.

PATIENT INGRESS (ENTRY)

1. Depress RED caster brake pedal to lock caster wheels.
2. Adjust chair to lowest height and into upright-chair position.
3. Lower one side rail of seat section.
4. If back section rails are present, remove/lower back section rail of same side.
5. Position patient (facing away from chair) at seat section.
6. WITH PATIENT ENTERING FROM SIDE OF CHAIR, assist patient while they sit down on seat section.
7. Once patient is fully seated, assist them in rotating their body in-line with chair into a seated position.

PATIENT EGRESS (EXIT)

1. Depress RED caster brake pedal to lock caster wheels.
2. Adjust chair to lowest height and into upright-chair position.
3. Lower one side rail of seat section.
4. If back section rails are present, remove/lower back section rail of same side.
5. Ensure patient's body weight is centered on seat section.
6. WITH PATIENT EXITING TO SIDE OF CHAIR, assist patient in rotating their body by placing their legs over one side of chair.
7. Assist patient into standing position from seated position.

PATIENT TRANSFER



WARNING

PATIENT'S BODY WEIGHT SHOULD NEVER BE SHIFTED TOWARDS EITHER END OF CHAIR WHEN IN A PARTIALLY, OR TOTALLY, RECLINED POSITION. SERIOUS PATIENT INJURY MAY OCCUR. ALL PATIENT TRANSFERS MUST BE MADE FROM SIDE OF CHAIR, NOT CHAIR ENDS.

IMPORTANT: Follow these instructions for safe and proper patient transfer between chair (in stretcher orientation) and another horizontal surface.

1. Position back, seat, and leg sections into horizontal orientation. (Press Auto Contour button.)
2. Lower/remove all side rails from transfer (right) side of chair.
3. Position chair as close as possible to other surface.
4. Match chair height to height of bed or other horizontal surface.
5. Depress RED caster brake pedal to lock caster wheels.
6. Slide patient from one surface to other, following your facility's standard practices/policies for lateral patient transfers.

PUSH BAR OPERATION (STANDARD WITH NON "X" MODEL)

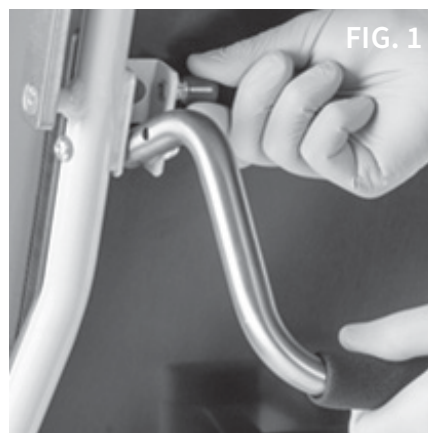
LOWERING PUSH BAR

1. Grasp push bar handle while pulling out red release knob.
2. Lower push bar into "down" position.

RAISING PUSH BAR

Lift push bar handle until it is in "up" position.

NOTE: The red release knob will engage (lock) automatically.



OPTIONS

“W” OPTION: WIDE WIDTH

For “W” option, patient surface width is 28”.

Standard width is 24”.

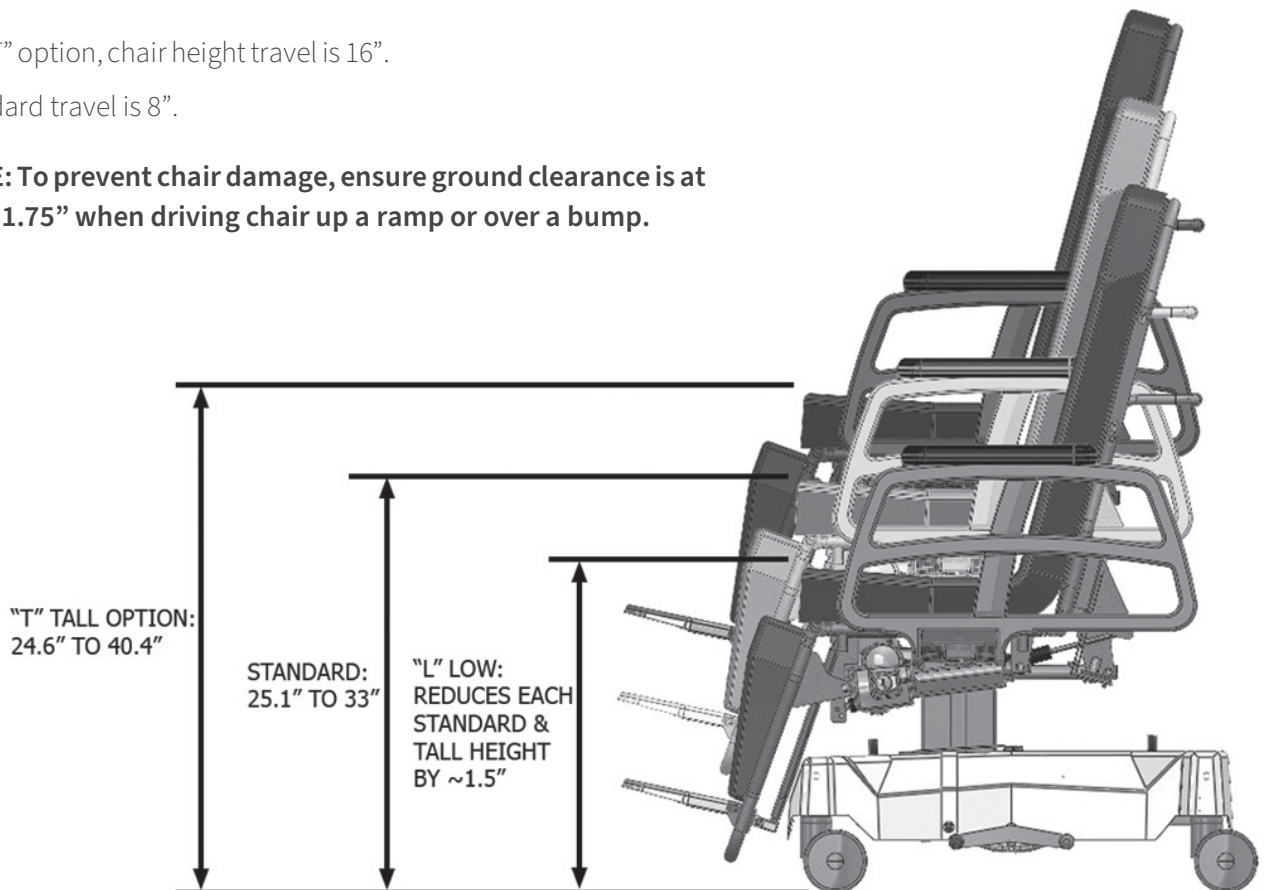


“T” OPTION: TALL HEIGHT & “L” OPTION: LOW HEIGHT

For “T” option, chair height travel is 16”.

Standard travel is 8”.

NOTE: To prevent chair damage, ensure ground clearance is at least 1.75” when driving chair up a ramp or over a bump.



“R” OPTION: RAILS ON BACK SECTION (NEAR PATIENT’S HEAD)

Rails located on back section operate and adjust same as side rails.



WARNING

BE AWARE OF PINCH
BETWEEN PARTS WHEN RAISING
OR LOWERING BACK.

“R” option doesn’t have push handles.



“Q” OPTION: SCALE

TO MEASURE PATIENT’S WEIGHT WITH SCALE:

1. Ensure chair base is level.
2. Ensure chair is not contacting nearby objects.
3. Activate chair’s caster brakes.
4. To tare scale, press and hold the “ZERO” button for approximately 3 seconds until “ZERO” appears on the display, release button and the display will read 0.0.
5. Place patient in chair.
6. After patient is settled, press “WEIGH” button on scale pendant to obtain patient’s weight. After a few moments a stable weight will be indicated by a small black triangle in the display under the □ symbol.
7. Return scale pendant to holder.



- To prevent inaccurate measurement, tare scale before each patient.
- To prevent inaccuracy, prevent extra items (accessories, monitors, IV bags, blankets, pillows, charts, etc.) from being included/excluded during weight checks.
- To ensure the most accurate patient weight is being obtained, weigh the patient when the chair is in the low, seated position.
- Scale display may shut off after sixty seconds, but tare will be maintained. Press “WEIGH” button to wake up scale
- To toggle between weight units (lb / kg), press “MODE” button on scale pendant. Ensure reading is the in the correct unit (lb/kg) when transferring patient’s weight to chart.



WARNING

SCALE SPECIFICATIONS:

- Weight capacity: 50 – 500 lbs (23 – 227 kg)
- Accuracy/Repeatability: 0.2 lbs or 0.2% of patient’s weight (whichever is greater)
- Powered by: 9V DC Internal Battery



WARNING

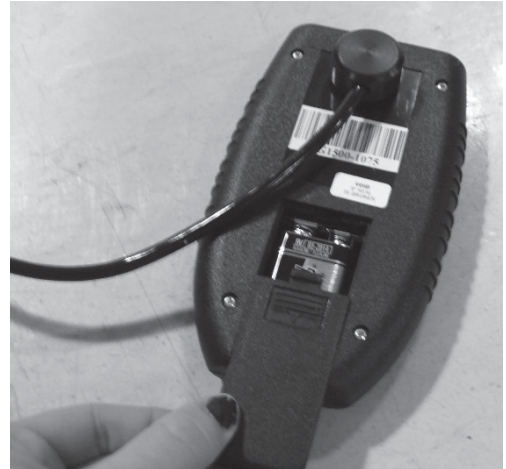
SCALE SHOULD ONLY BE OPERATED BY TRAINED MEDICAL PERSONNEL.

“Q” OPTION: SCALE – CONTINUED

CHANGING PENDANT BATTERY

Follow these instructions if pendant does not wake up when “WEIGH” button is pressed.

1. Remove battery cover on back of pendant by sliding it downwards.
2. Take out battery and replace it with a new 9V Industrial battery.
3. Replace battery cover.



“G” OPTION: ENG HEADPIECE

To remove ENG headpiece:

1. Loosen two black knobs on either side of chair.
2. Lift headpiece from back section of chair.

NOTE: To prevent component loss, ensure that knobs remain assembled in back section frame.

To re-install ENG headpiece:

1. Lift headpiece and insert each side into back section of chair.
2. Tighten two black knobs in a clockwise direction until tight.



WARNING

**TO PREVENT POTENTIAL INJURY,
ENSURE KNOBS ARE COMPLETELY
TIGHTENED PRIOR TO CHAIR USE.**

“F” OPTION: FOLDING FOOTREST



WARNING

WHEN POSITIONING FOOTREST,
BE AWARE OF PINCH POINTS.

To stow footrest, place both hands on red handles and lift.

NOTE: For patient comfort, stow footrest prior to articulating chair into supine (stretcher) position.

AVAILABLE PLUG CONFIGURATIONS FOR EXPORT

“A” option power cord is directly attached to chair.

“B” option power cord is attached to battery charger (# TMA57-15).

NOTE: Power cords depicted in image (Fig. 1) may not match power cord shipped with your chair.



Extended
Footrest



Stowed
Footrest

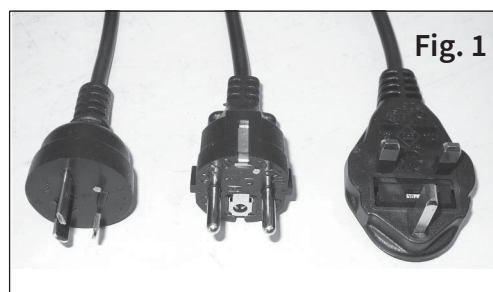


Fig. 1

“B” OPTION: BATTERY PACK

REMOVING BATTERY PACK FROM CHAIR

Grasp integrated handle on battery pack and lift up until cam locks disengage. Pull battery away from mounting bracket.



INSTALLING BATTERY PACK ONTO CHAIR

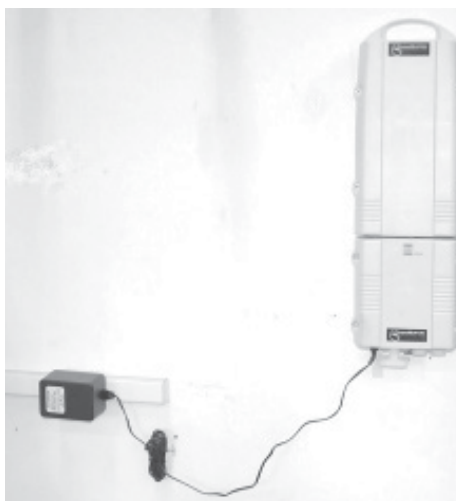
Place two round, cam locks on back of battery into square openings of mounting bracket. Once in place, slide battery down until cam locks engage.



ADDITIONAL BATTERY INFORMATION

All chairs come with additional battery and wall-mountable battery charger. Additional battery may be stored in wall charger or on mobile battery stand.

For more information related to the battery and charger, see Battery Charger Installation and Usage Instructions (IM TMA57-15).



“A” OPTION: AC POWER (FOR ON-BOARD BATTERIES AND CHARGER)

AC power cord for charging batteries is attached to chair base, and may be stowed by wrapping around storage bracket.

TO CHARGE ON-BOARD BATTERIES:

1. Insert AC plug into wall outlet (Fig. 1).

NOTE: To prevent insufficient power, plug chair in to charge batteries overnight (i.e. during off-times), or 24 hours prior to service.

NOTE: When the chair is plugged in and charging the pendant will not illuminate, even when the buttons are pushed.

NOTE: The on-board battery is only intended to be used in the event of a power failure, to allow egress of the patient. The battery does not have the capacity for continuous use.

NOTE: If chair is to be stored or not in use for three (3) weeks or more, leave chair plugged into an AC wall outlet or unplug battery pack from control box.

To unplug battery pack; lift up base cover (Fig. 2) to access control box, remove control box cover (Fig. 3) by unlocking mechanism using a flathead and then sliding the cover off to access the plugs. Then unplug the battery pack cord shown (Fig. 4).

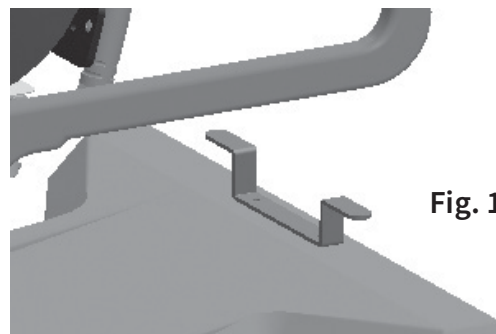


Fig. 1



Fig. 2

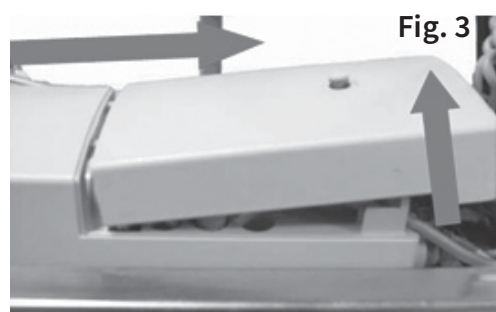


Fig. 3



Fig. 4

CLEANING INSTRUCTIONS

COMPONENT	FREQUENCY	PROCEDURE	CLEANING AGENT *	COMMENT
All Rails and Painted Metal	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Check for chipped paint/chrome
Base Cover	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Check for peeling or missing labels
Actuators and Battery Pack	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Clean exterior surfaces only with minimal water
Pendants	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Clean exterior surfaces only with minimal water
All Other Surfaces	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Check for damage
Champion Accessories	As required/in accordance with facility policies	Wipe with damp cloth and allow to air dry	Facility approved detergents, disinfectants & water	Check for damage
3rd Party Accessories	As required/in accordance with facility policies	Consult manual provided by accessory manufacturer.		



WARNING

STEAM AND/OR PRESSURE CLEANING CHAIR WILL VOID WARRANTY

* Use of Facility approved detergents and disinfectants must comply with the instructions provided by the manufacturer(s) of those products.

GENERAL CARE & CLEANING

Proper care is essential in ensuring the durability and reliability of Champion upholstery. In general, all products should be:

1. Cleaned
2. Disinfected (per facility policy)
3. Rinsed
4. Allowed to air dry

It is important to note that the terms “disinfecting” and “cleaning” should not be used interchangeably. Disinfectants alone will not provide adequate cleaning since they do not have the appropriate properties to cut grease or oil and remove grime, hair or skin oils. The appearance, feel, and performance of your upholstery may diminish if not cleaned properly.

CLEANING

Remove grime, hair and body oils. Your furnishings should be cleaned with mild soap & water solution and a damp cloth on a regular basis (especially where skin & hair make contact with upholstery). Avoid harsh detergents or chemicals that could damage the upholstery or finish of your chair. If the furnishing’s upholstery is disinfected with chemicals or bleach mixtures, the chair **MUST** be wiped off using only clean water on a damp cloth and then be allowed to air dry. Failure to rinse upholstery with clean water can result in a build-up of residues that, over time, may lead to drying, cracking or other undesirable changes to appearance, feel and performance.

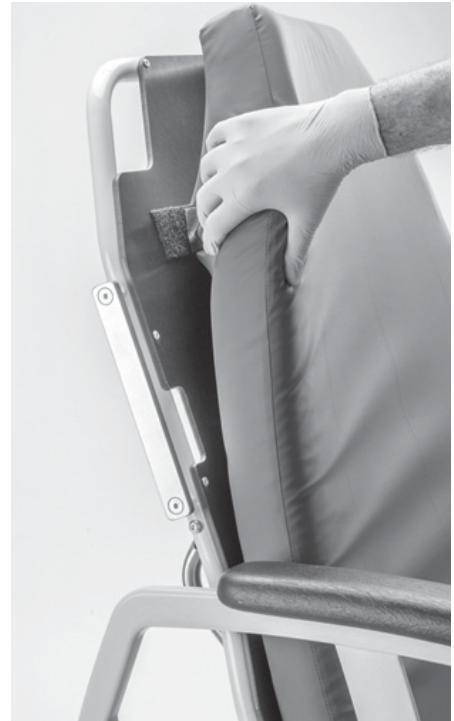
Please refer to any instruction labels or tags that may have been included with your product for complete care and cleaning instructions. Retain information on the label or tag for future use.

Additional information for cleaning products can be found on our website at: www.championchair.com/cleaning-instructions/

For customer supplied and non-standard materials, please refer to the individual manufacturer’s cleaning instructions.

PAD REMOVAL INSTRUCTIONS

When removing cushions, pull laterally. Do not pull from top to bottom.



PREVENTIVE MAINTENANCE

COMPONENT	FREQUENCY	PROCEDURE	TOOL	COMMENT
Cushion Pads	After each use	Inspect for tears.		If torn, discard cushion.
All Rails	Every three months	- Inspect for chipped paint, burrs, rough edges. - Remove burrs, rough edges. - Touch up paint.	- Metal file - Touch-up paint	To prevent personnel cuts, burrs and rough edges should be removed once found.
All Fastened Joints	Every three months	- Inspect all fasteners to ensure proper fit and tightness. - Retighten as needed.	- Wrenches (various sizes) - Allen wrenches (various sizes) - Screwdriver	
All Labels	Every three months	Inspect for tattered, torn, missing, and illegible labels.		Call Champion Customer Service for new labels.
Pendants	Every three months	- Test function of each button - Inspect pendant label to ensure it is readable.		Call Champion Service if pendant is not functioning or label is unreadable.
Quick Release	Every Three Months	With the seatback in full upright position, pull the quick release handle under the seat and verify the seatback slowly drops to a flat position.	N/A	Call Champion Service if the quick release mechanism does not work properly.

BATTERY SAFETY INFORMATION



TO PREVENT PERSONAL INJURY TO PATIENT AND / OR MEDICAL PERSONNEL, ENSURE BATTERY REPLACEMENT IS PROPERLY INSTALLED AND SECURELY ENGAGED PRIOR TO USE OF ACCESSORY.



TO PREVENT PERSONAL INJURY TO PATIENT AND / OR MEDICAL PERSONNEL, ENSURE BATTERY REPLACEMENT IS INSTALLED BY PERSONNEL WHO HAVE THOROUGHLY READ INSTALLATION INSTRUCTIONS.



PROPERLY DISPOSE OF BATTERIES BEING REPLACED DURING SERVICING.

- Battery posts, terminals and related components contain lead and lead compounds, which are known by the state of California to cause cancer or other reproductive harm. Wash hands thoroughly after handling or servicing.
- Lead batteries are classified as “dangerous waste” and service technicians are obliged by law to arrange for proper disposal of battery or recycling to avoid battery refuse in environment.
- Battery contains toxic material (lead) and corrosive fluid (sulfuric acid). Wear proper skin and eye protection prior to handling battery. After exposure, wash skin thoroughly with water.
- Do NOT short-circuit battery terminals, this can cause battery explosion or fire.
- To request Material Safety Data Sheet (MSDS) for battery, contact our Customer Service team.

BATTERY LIFE

NOTE: Battery capacity diminishes over time. Charge batteries regularly to maintain healthy battery life. Recommended to replace battery every two (2) years or as required.



Use of batteries that are NOT factory approved will void any and all warranties.

SUGGESTED PROTOCOL FOR CHARGING YOUR TMM BATTERY:

1. Ensure the cord for your TMM Battery Charger is fully inserted into the battery charger inlet.
2. Plug your TMM Battery Charger directly into an outlet. Do NOT use an extension cord or power strip. Extension cords and/or power strips can cause a drop in current that may hinder the charger's ability to charge the battery efficiently.
3. Slide the TMM Battery downward onto the TMM Battery Charger making sure the battery is properly seated onto the charging port.
4. Check to see if either an orange light (indicating the battery is "charging") or a green light (indicating the battery is "fully charged") appears.
5. Charge your TMM Battery for eight (8) hours or until the Green light indicator appears to ensure an optimum charge is achieved.
6. Rotate batteries from charger to chair every two (2) to three (3) days to maintain an optimum charge on the batteries.
7. When your TMM Procedure-Chair is not in use for extended periods of time (four (4) days or more) unplug the battery from the Procedure-Chair to prevent battery drainage.
8. Replace your TMM Battery every two (2) years (recommended) or as required.



IMPORTANT: ALWAYS REFER TO THE WEIGHT CAPACITY LABEL ON YOUR CHAIR.

In all cases the labeling on the chair at the time of delivery indicates the correct rating for your chair – weight rating should not be exceeded!

SPECIFICATIONS



TMM4 Plus



TMM4 Plus-X

Procedure Chairs	TMM4 Plus-B	TMM4 Plus-LB	TMM4 Plus-TB	TMM4 Plus-WB	TMM4 Plus-TLB	TMM4 Plus-WTB
Maximum Patient Weight	500 lb. (227 kg)	500 lb. (227 kg)	500 lb. (227 kg)	500 lb. (227 kg)	500 lb (227 kg)	500 lb (227 kg)
Seat Height, Low	24.3" (61.7 cm)	22.8" (57.9 cm)	24.4" (62 cm)	24.3" (61.7 cm)	22.9" (58.2 cm)	24.4" (62 cm)
Seat Height, High	32.1" (81.5 cm)	30.6" (77.7 cm)	40.1" (101.9 cm)	32.1" (81.5 cm)	38.6" (98 cm)	40.1" (101.9 cm)
Back Height	33.75" (85.73 cm)	33.75" (85.73 cm)	33.75" (85.73 cm)	33.75" (85.73 cm)	33.75" (85.73 cm)	33.75" (85.73 cm)
Side Rail Height, Up (seat pan to rail top)	13.5" (34.3 cm)	13.5" (34.3 cm)	13.5" (34.3 cm)	13.5" (34.3 cm)	13.5" (34.3 cm)	13.5" (34.3 cm)
Overall Chair Height, Low	54" (137 cm)	52" (133 cm)	53" (135 cm)	54" (137 cm)	52" (133 cm)	53" (135 cm)
Overall Chair Height, High	62" (157 cm)	62" (157 cm)	70" (178 cm)	62" (157 cm)	68" (174 cm)	70" (178 cm)
Seat Width	24" (61 cm)	24" (61 cm)	24" (61 cm)	28" (71 cm)	24" (61 cm)	28" (71 cm)
Overall Width (rails up)	30" (76 cm)	34" (86.4 cm)	30" (76 cm)	34" (86 cm)	30" (76 cm)	34" (86.4 cm)
Overall Width (rails down)	24" (61 cm)	28" (71 cm)	24" (61 cm)	28" (71 cm)	24" (61 cm)	28" (71 cm)
Patient Surface Length (excludes "F" option)	77" (195 cm)	77" (195 cm)	77" (195 cm)	77" (195 cm)	77" (195 cm)	77" (195 cm)
Side Rail Length	27.6" (70.1 cm)	27.6" (70.1 cm)	27.6" (70.1 cm)	27.6" (70.1 cm)	27.6" (70.1 cm)	27.6" (70.1 cm)
Backrest Articulation Range	0° – 75°	0° – 75°	0° – 75°	0° – 75°	0° – 75°	0° – 75°
Trendelenburg/Reverse Trendelenburg (X-Models)	20°/5°	20°/5°	20°/5°	20°/5°	20°/5°	20°/5°
Radiolucent Window (width X height)	20" x 25.5" (51 cm x 65 cm)	20" x 25.5" (51 cm x 65 cm)	20" x 25.5" (51 cm x 65 cm)	20" x 25.5" (51 cm x 65 cm)	20" x 25.5" (51 cm x 65 cm)	20" x 25.5" (51 cm x 65 cm)
Wheelbase (length X width)	30" x 20"	30" x 20"	30" x 20"	30" x 20"	30" x 20"	30" x 20"
Add 3" to length for X-models	(76 cm x 51 cm)	(76 cm x 51 cm)	(76 cm x 51 cm)	(76 cm x 51 cm)	(76 cm x 51 cm)	(76 cm x 51 cm)

IMPORTANT: Patient's weight should be evenly distributed.

Visit our website (ChampionChair.com) to view our full line of medical furnishings and Procedure-Chairs.

Additional copies of this manual and other product documents are available for download via the resources section of our website.

SPECIFICATIONS SUBJECT TO CHANGE

While we endeavor to maintain consistent products, due to conditions beyond our control, specifications are subject to change without notice. We reserve the right to add or delete products at any time and without prior notice. Always provide your product's specific serial number when ordering any replacement parts. When in doubt, contact a Champion representative (352-854-2929 or 1-800-237-3377) for further information.



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