

User Manual

440 Stretcher Bed



Strength in patient care.™

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APPLICABLE MODEL(S)

This manual is for the following part numbers and serial numbers:

PART NUMBER	DESCRIPTION	EFFECTIVE S/N
4400010	440L Mobile Battery Powered Stretcher Bed, 115V	140807002-Current
4400011	440L Mobile Battery Powered Stretcher Bed, 230V	140807002-Current
4400012	440H Mobile Battery Powered Stretcher Bed, 115V	140807002-Current
4400013	440H Mobile Battery Powered Stretcher Bed, 230V	140807002-Current

REVISION HISTORY TABLE

DATE	REVISION	CO#/ECO#	DETAILS
4/6/2010	040610		Initial Release
8/22/2013	B		Updated information regarding battery & accessories.
1/13/2015	C	CO-0054/EC-0238	Manual revised to conform to new format, casters have changed along with new caster options.

User Manual

MTI 440 Stretcher Bed

GENERAL INFORMATION

Purpose of this Manual

This manual covers the safety, installation, instructions for use, and maintenance of this equipment. It is intended that it be used by the service professional installing the equipment and by the medical professionals who have been trained to use it. No repair information is included with this manual, because no operator repairs are intended.

Intended Use

This equipment is intended to be used as a chair/table for general examinations and procedures performed by medical professionals.

PRODUCT INFORMATION

Date of Purchase:_____

Model Number:_____

Serial Number:_____

(See "EQUIPMENT FEATURES" on page 6 for location of serial number label)

Symbols and Warnings

This manual contains Notices, Cautions, and Warnings, which are meant to call attention to particular parts or sections of this manual. Since safety is our first concern, this manual should be read by all personnel who will be operating this medical equipment. Failure to comply with the following warnings and cautions will void the warranty.

Symboles et Avertissements

Ce manuel contient des avis, des précautions et des avertissements qui sont destinés à attirer l'attention sur des pièces ou des sections de ce manuel particulier. Parce que la sécurité est notre première préoccupation, ce manuel doit être lu par tout le personnel qui sera d'utiliser cet équipement médical. Défaut de se conformer avec les avertissements et les précautions de ce guide d'instruction annulera la garantie.

WARNINGS/AVERTISSEMENTS

Are used to call attention to a condition, practice, or procedure which could cause personal injury if not followed correctly. Please become familiar with all warnings and observe them at all times.

Sont utilisés pour attirer l'attention sur une condition, pratique ou procédure qui pourrait causer des blessures s'il n'est pas suivi correctement. S'il vous plaît se familiariser avec tous les avertissements et les observer à tout moment.

CAUTIONS/PRÉCAUTIONS















Are used to call attention to a condition, practice, or procedure which could cause product damage if not used correctly.













Sont utilisés pour attirer l'attention sur une condition, pratique ou procédure qui pourrait causer des dommages au produit s'il n'est pas utilisé correctement.

NOTICES/AVIS

Are used to call attention to helpful information regarding a condition, practice, or procedure.

Sont utilisés pour attirer l'attention sur des informations utiles concernant une condition, pratique ou de procédure.

	Class 1, Type B, Medical Equipment
	Proper shipping orientation for the product Orientation d'embarquement correct pour le produit
	Product is fragile; be careful in handling Le produit est fragile. Soyez prudent lors de la manipulation
	Protective earth ground Terre électrique de protection
	Alternating current Le courant alternatif
	Unit duty cycle of 10% Example: (1) minute on (9) minutes off. Unité rapport cyclique du 10%
	Product must be kept dry Le produit doit rester sèche
	Upper and lower limits of temperature Limites haute et basse de la température
	Maximum stacking height of palletized units. Hauteur maximale de la pile d'unités sur palettes.
	Indicates the presence of a dangerous voltage/shock hazard Indique le présence de voltage dangereux/ de choc
	Follow instructions for use Suivez les instructions pour l'utilisation
	Consult operating instructions Consultez les instructions d'utilisation
	Manufacturer of product Fabricant de produits
	Date on which the product was manufactured Date de fabrication

	Identifies the manufacturer's serial number Identifie le numéro de série du fabricant
	Upper and lower limits of relative humidity Limites haute et basse de humidité relative.
	Upper and lower limits of atmospheric pressure Limites haute et basse de la pression atmosphérique
	Location of fuses Emplacement de fusibles
	(WEEE) Waste of Electrical and Electronic Equipment Déchets d'équipements électriques et électroniques
	ETL listing mark Marque ETL Listé
	UL listing mark Marque UL Listé
	European Conformity mark Marque Conformité Européenne
	Connection point for the neutral conductor Point de connexion pour le conducteur neutre
	Live conductor Conducteur sous tension
	RoHS Compliant Conforme à RoHS
	Hospital Grade (green dot) De qualité hôpital (point vert)

Safety Instructions

WARNING/AVERTISSEMENT

Read this manual before installation and use.

Lisez ce manuel avant l'installation et l'utilisation.

WARNING/AVERTISSEMENT

No modification of this equipment is allowed.

Aucune modification de cet équipement est autorisée.

WARNING/AVERTISSEMENT

Do not operate equipment in the presence of flammable anesthetics.

Ne pas faire fonctionner l'équipement en présence d'anesthésiques inflammables.

WARNING/AVERTISSEMENT

When equipment is in motion from a programmable position or auto return, injury may occur if equipment is not attended to until it comes to a complete stop.

Lorsque l'appareil est en mouvement à cause d'une position programmable or retour automatique, blessure peut se produire si l'appareil n'est pas regardé jusqu'à ce qu'il arrive à un arrêt complet.

WARNING/AVERTISSEMENT

Verify equipment, patient, and other objects are in a safe condition before operating the equipment.

Vérifiez l'appareil, patient, et d'autre objets sont dans un état sûr avant d'utiliser l'appareil.

WARNING/AVERTISSEMENT

Verify controls, cords, and other parts of the equipment do not create a tripping or other safety hazard for operator or patient.

Vérifiez les contrôles, les cordons et les autres parties de l'appareil ne créent pas un risque de trébuchement ou d'autres risques d'accident pour l'opérateur ou le patient.

WARNING/AVERTISSEMENT

Lockout switch should be turned to the off position to prevent unintended movement during use of the equipment.

Interrupteur de verrouillage doit être tourné à la position d'arrêt pour empêcher tout mouvement

involontaire pendant l'utilisation de l'appareil.

WARNING/AVERTISSEMENT

Backrest, seatrest, footrest, armrest, headrest, and other parts of the equipment should only be used for their intended purpose. MTI is not responsible for use of components outside of their intended use.

Le repose-dos, reste de siège, repose pieds, accoudoirs, appuie-tête et d'autres parties de l'appareil ne doivent être utilisés conformément à leur utilisation prévue. MTI n'est pas responsable de l'utilisation des composants au dehors de leur utilisation prévue.

WARNING/AVERTISSEMENT

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. See <http://www.mti.net/FAQs.aspx> for details on California Proposition 65.

Ce produit contient des produits chimiques reconnus par l'État de Californie pour causer le cancer et / ou des anomalies congénitales ou d'autres problèmes de reproduction. Voir <http://www.mti.net/FAQs.aspx> pour plus de détails sur la California Proposition 65.

Electromagnetic Interference

This equipment is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this equipment, do one or more of the following:

1. Plug the equipment into an isolated circuit.
2. Remove the interfering device from room.
3. Increase the separation between the equipment and the interfering device.
4. Contact MTI if the electromagnetic interference persists.

Electrical Requirements

WARNING/AVERTISSEMENT

To avoid risk of electrical shock, this equipment must be connected to a supply mains with protective earth.

Pour éviter tout risque de choc électrique, cet appareil doit être branché sur une prise électrique avec la terre électrique de protection.

WARNING/AVERTISSEMENT

Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".

Mise à la terre fiabilité ne peut être atteint lorsque l'appareil est connecté à un réceptacle équivalent marqué "Hôpital Uniquement" ou "de Qualité Hôpital".

WARNING/AVERTISSEMENT

When using endocardial catheters or high frequency surgical/procedure devices, use non-conductive material to insulate the patient from metal portions of the equipment. Failure to comply may result in electric shock or burns to patient.

Lors de l'utilisation de cathéters endocavitaires ou dispositifs chirurgicale / procédure haute fréquence, utiliser un matériau non conducteur pour isoler le patient des parties métalliques de l'équipement. Le non-respect peut entraîner un choc électrique ou de brûlures pour le patient.

WARNING/AVERTISSEMENT

Connecting electrical equipment to a multiple socket-outlet effectively leads to creating a medical electronic system and can result in a reduced level of safety.

Connexion d'un équipement électrique à une prise de courant multiple crée un système électronique médicale, et peut entraîner une baisse du niveau de sécurité.

WARNING/AVERTISSEMENT

Equipment must be positioned in normal use such that the power cords can be easily accessed to unplug.

L'appareils doit être positionné en utilisation normale telle que les cordons d'alimentation peuvent être facilement accessibles à débrancher.

⚠ WARNING/AVERTISSEMENT

Equipment must be connected to an appropriate power source when loss of power source would result in an unacceptable risk.

L'appareils doivent être relié à une source d'alimentation appropriée en cas de perte de la source d'alimentation entraînerait un risque inacceptable.

⚠ WARNING/AVERTISSEMENT

Do not use a two-three plug adapter to plug the equipment into a two conductor outlet, as grounding reliability is not maintained.

Ne pas utiliser un adaptateur non de prise de terre pour brancher l'appareil sur une prise à deux conducteurs, la fiabilité de la terre n'est pas maintenue.

⚠ WARNING/AVERTISSEMENT

Do not plug this equipment into a low power or auxiliary outlet. This equipment must be connected to a 115 Volt (V) outlet (115V Models) or 230V outlet (230V Models). If this equipment is connected to an insufficient power source, it will cause irreparable damage to this device's electronics.

Ne branchez pas cet équipement sur une prise de faible puissance ou une prise auxiliaire. Cet équipement doit être branché sur une prise de 115 Volt (V) (modèles 115V) ou sur une prise de 230V (modèles 230 V). Si cet équipement est connecté à une source d'alimentation insuffisante, il causera des dommages irréparables à l'électronique de cet appareil.

⚠ CAUTION/PRÉCAUTION

An appropriately rated surge protector must be used to protect the printed circuit board. Warranty is void if this surge protector is not used.

Un protecteur de surtension correctement classé doit être utilisé pour protéger la carte de circuit imprimé. La garantie est nulle si, ce protecteur de surtension n'est pas utilisé.

! NOTICE/AVIS

Removing the power supply cord at the equipment input or wall receptacle will simultaneously isolate both poles of the power supply.




Retrait du cordon d'alimentation à l'équipement ou à la

prise murale se isoler simultanément les deux pôles de l'alimentation.

Contraindications

None.

Transportation and Storage Conditions

	Ambient Temperature	+10°C to +40°C (+50°F to +104°F)
	Relative Humidity	30% to 75% (non-condensing)
	Atmospheric Pressure	700hPa to 1060hPa (0.69atm to 1.05atm)

Disposal of Equipment

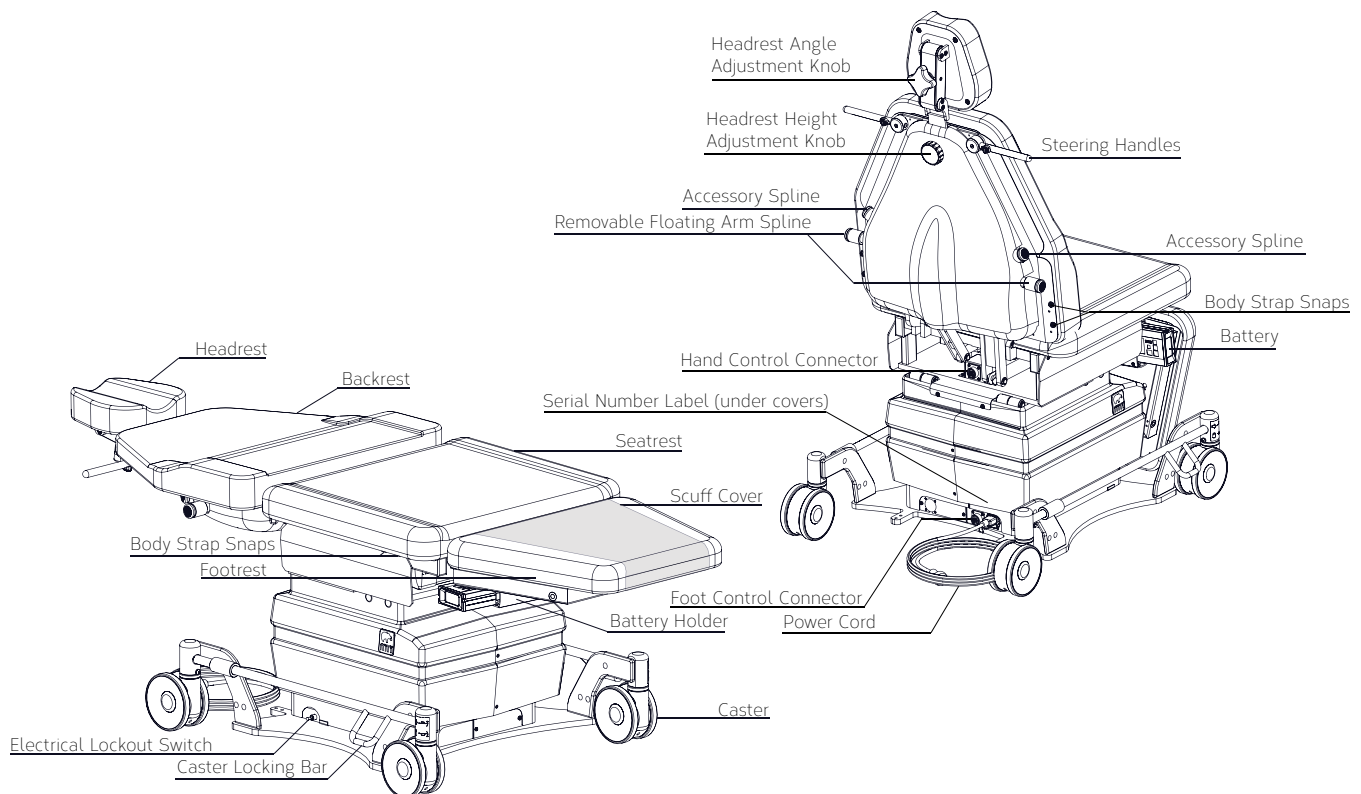
At the end of product life, the equipment, accessories, and other consumable goods may have become contaminated due to normal medical use. Consult local codes and ordinances for proper disposal of equipment, accessories and other consumable goods.

EQUIPMENT FEATURES

Description of 440 Stretcher Bed

A Mobile Quad-Power Stretch Bed including power lift, back, tilt and foot with a 650 lb (295 kg) lift capacity. The chair is 24" (61.0 cm) wide with a 20" (50.8 cm) or 22" (55.9 cm) minimum height. The chair is used for positioning a patient for exams and procedures.

440 STRETCHER BED



INSTALLATION

WARNING/AVERTISSEMENT

This equipment is heavy, get help to remove it from the shipping pallet. Use proper lifting procedures when lifting to avoid serious back injury.

Cet équipement est lourd. Obtenir de l'aide pour le retirer de la palette d'expédition. Utilisez les procédures propre de levage pour le soulever pour éviter grave blessure au dos.

WARNING/AVERTISSEMENT

After equipment is installed, verify that the programmable positions are in safe and known positions.

Après l'équipement est installé, vérifier que les positions programmables sont dans des positions sûres et connues.

CAUTION/PRÉCAUTION

To move equipment, lift only from the equipment's main structure.

Pour déplacer l'appareil, soulevez seulement de la structure principale de l'appareil.

NOTICE/AVIS

If this product has been exposed to low temperatures, allow adequate time for it to warm to room temperature before putting it into service.







Si ce produit a été exposé à de basses températures, laisser suffisamment de temps pour lui permettre de se réchauffer à température ambiante avant de le mettre en service.

NOTICE/AVIS

Inspect the shipping boxes for visible damage. Record on bill of lading, photograph, and report any damage to the carrier immediately. Request an inspection by the carrier if any concealed damage is noted.

Inspectez les boîtes d'expédition pour les dommages visibles. Fiche sur le connaissance, prendre une photo, et signalez les dommages dûs au transporteur immédiatement. Demander une inspection par le transporteur en cas de dommage caché est noté.

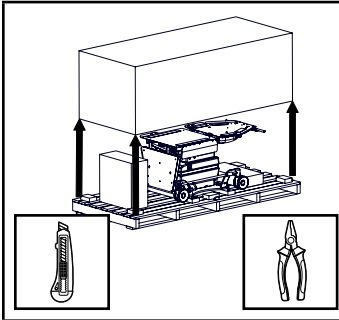
Required Tools

	7/16" Wrench 5/8" Wrench		Wire cutters		Utility Knife		Flat Head Screwdriver
	Phillips Screwdriver (#2)		5/64" Allen Wrench				

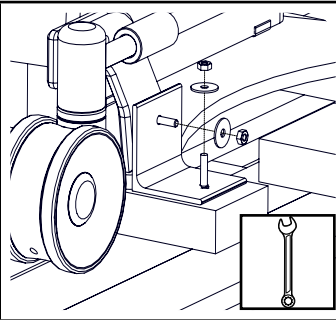
Explanation of Instructions

Instructions have steps which are designated by a number. Each step may also have sub-steps designated by a letter. For example, an instruction to fasten an accessory may have 4 steps (1-4) and each of those steps may have sub-steps (A-B) to be performed before moving on to the next step.

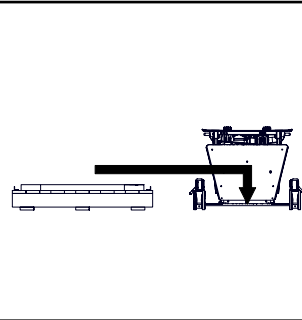
Unpacking & Set-up



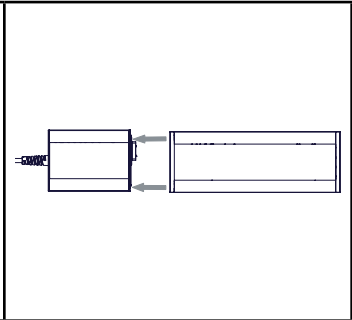
1. Remove shipping straps, shipping box, and other boxes from the pallet.



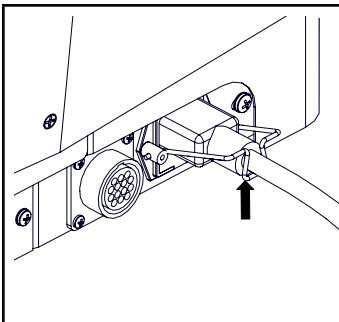
2. Remove (2) brackets that tie the chair to the pallet using (2) 7/16" wrenches. Remove 2 bolts holding 2 x 4's to the pallet.



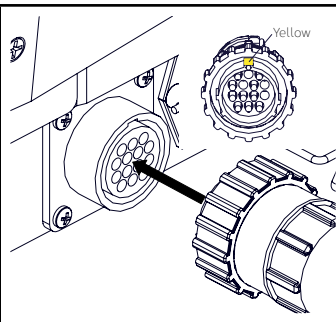
3. Slide chair off pallet. To move equipment, lift only from the equipment's main structure. Recycle or re-use pallet.



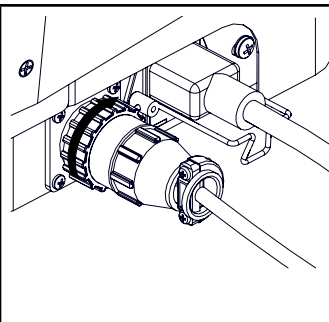
4. Connect one of the two batteries to the battery charger and plug it into the wall to charge battery before use.



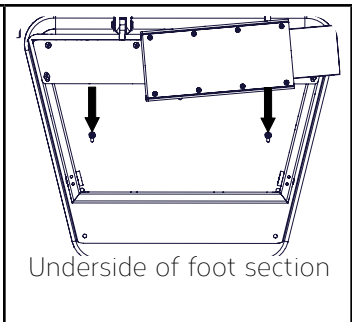
5. Temporarily plug in the chair.



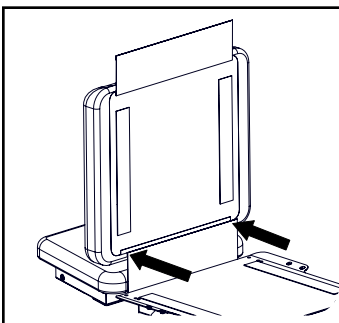
6. Install control(s) by aligning pins and tabs of the male control plug with chair receptacle by positioning the yellow mark on the plug body to the 12 o'clock position relative to the receptacle.



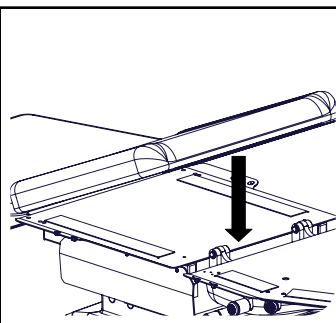
7. Secure the plug by rotating the locking ring clockwise until it engages. Rotate it until it stops.



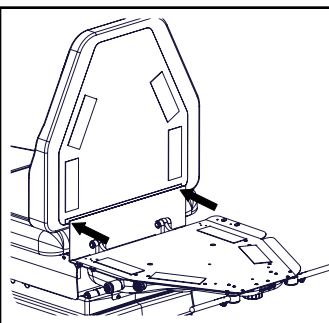
8. Raise the foot section. Align the heads of the screws on the foot cushion with the slotted holes in the foot section. Slide the cushion in place, and tighten the screws (with lock washers) from underneath.



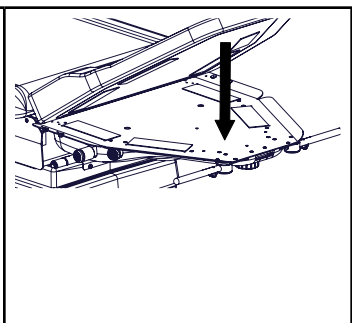
9. Attach the flap on the top of the foot cushion to the Velcro® on the seat cushion. The rear section of the seat cushion has a flap already attached.



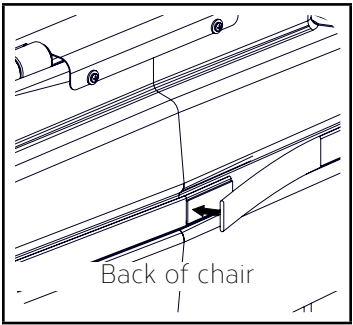
10. Align the seat cushion with the seat section of the chair and press into place. Verify the cushion is centered.



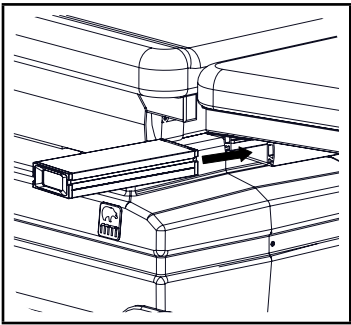
11. Attach the flap on the rear of the seat cushion to the Velcro® on the back cushion.



12. Align the back cushion with the back section of the chair and press into place. Verify the cushion is centered.






13. Wrap the decorative base strap around the plastic base cover and attach Velcro®.



14. Once the battery is fully charged, unplug the power cable. Insert the battery into the battery holder behind the foot section. The label on the battery should face away from the foot cushion.

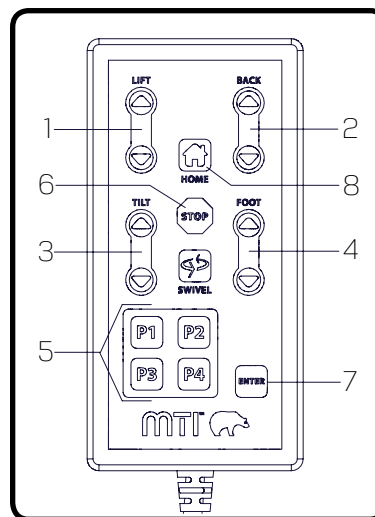
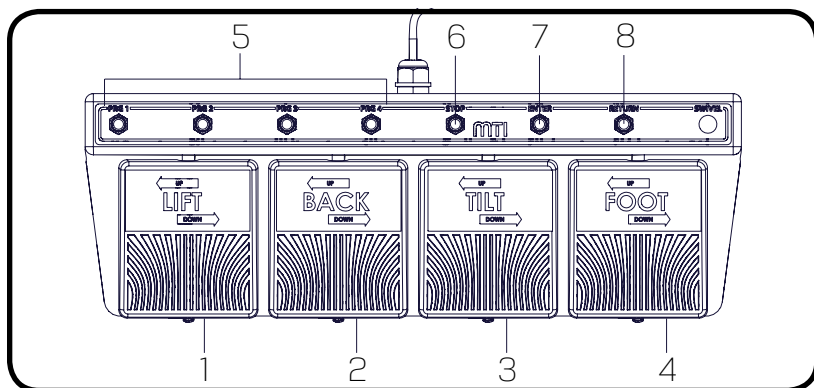
OPERATION

Operating Conditions

	Ambient Temperature	+10°C to +40°C (+50°F to +104°F)
	Relative Humidity	30% to 75% (non-condensing)
	Atmospheric Pressure	700hPa to 1060hPa (0.69atm to 1.05atm)

Controls

Foot Control/Hand Control



ITEM	DESCRIPTION	FUNCTION
1	Lift Pedal/Button	Raises or lowers the chair top by pressing the desired direction
2	Back Pedal/Button	Raises or lowers the backrest by pressing the desired direction
3	Tilt Pedal/Button	Decreases or increases the angle of the seat by pressing the desired direction
4	Foot Pedal/Button	Raises or lowers the footrest by pressing the desired direction
5	Program Buttons (4)	Moves the chair to a user programmed position
6	Stop Button	Stops all movement of chair
7	Enter Button	Press this button followed by a program button to save the current position of the chair as a programmed position.
8	Return Button	Returns the chair to the home position (Lift Down, Tilt Down, Back Up, and Foot Down)

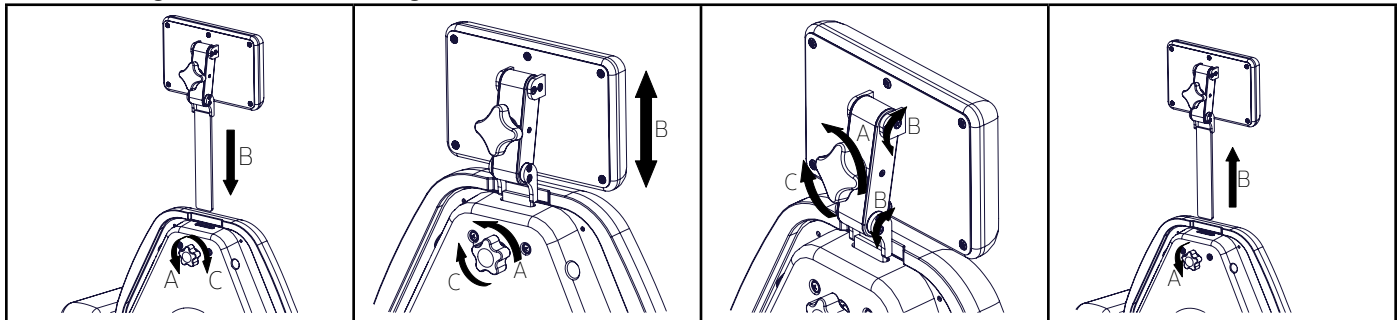
! NOTICE/AVIS

For additional safety, any button will stop all motions except for the same button that was pressed to initiate movement.

Pour plus de sécurité, n'importe quel bouton peut arrêter tous les mouvements à l'exception du bouton même qui a été pressé de commencer le mouvement.

Headrest Operation

Articulating and Non-Articulating Headrests



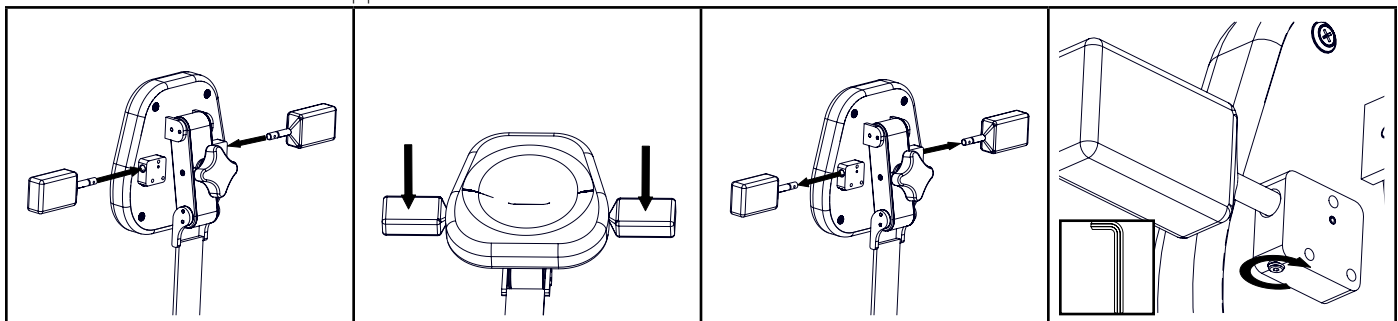
1. To install the headrest:
 A. To loosen, turn the knob on the back of the chair counterclockwise.
 B. Insert the headrest through the slot in the top of the backrest.
 C. To secure, turn the knob clockwise.

2. To adjust the height of the headrest:
 A. To loosen, turn the knob on the back of the chair counterclockwise.
 B. Adjust the height of the headrest.
 C. To secure, turn the knob clockwise.

3. To adjust the angle of the headrest (Articulating only):
 A. To loosen, turn the knob on the back of the headrest counterclockwise.
 B. Adjust the position and angle of the headrest.
 C. To secure, turn the knob clockwise.

4. To remove a headrest:
 A. To loosen, turn the knob on the back of the chair counterclockwise.
 B. Pull the headrest completely out of the back.

Headrests with Forearm Supports



1. To attach forearm supports on the headrest:
 Insert the rod of the forearm support into the headrest.

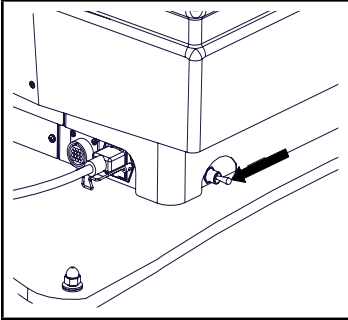
2. To use forearm supports:
 Place forearms on the foam pads.

3. To remove forearm supports on headrest:
 Pull the forearm support out.

4. To adjust tightness of the forearm support:
 Tighten the set screw on the bottom side of the holding block by turning clockwise with a 5/64" Allen Wrench.

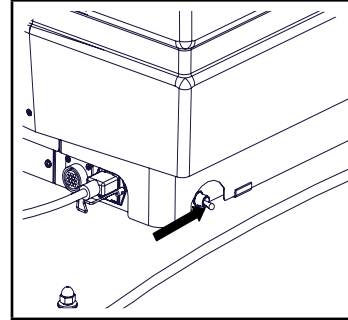
Electrical Lockout

The electrical lockout cuts power to all motors to eliminate possible EMI (electromagnetic interference) and RFI (radio frequency interference). This switch also resets the circuit board.



1. To lock out control of the chair:

A. Switch the toggle switch to the off position (pointing toward the backrest of the chair).



2. To enable control of the chair:

A. Switch the toggle switch to the on position (pointing toward the footrest of the chair).

! NOTICE/AVIS

The toggle switch will not lock out non-powered motion.

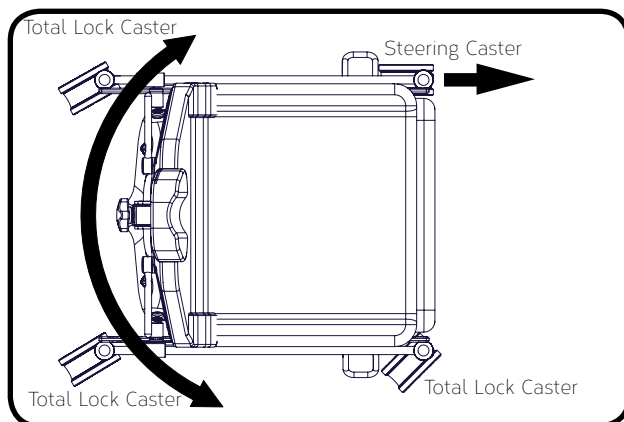
L'interrupteur à bascule ne sera pas verrouiller le mouvement non-motorisé.

MOBILE BASE OPTIONS

The mobile base comes in 3 factory installed options for the 440 Stretcher Bed: Rear Steer, Front Steer, or Selective Steer. It is important to know which option is installed.

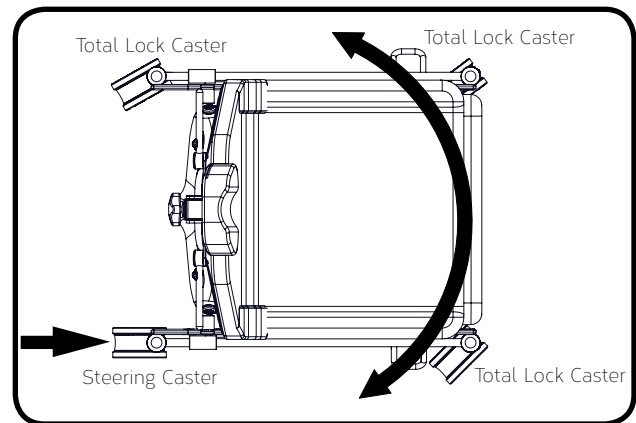
Rear Steer

The Rear Steer Option utilizes the front caster on the patient's left side as the Steering Caster and the other casters are Total Lock Casters.



Front Steer

The Front Steer Option utilizes the rear caster on the patient's right side as the Steering Caster and the other casters are Total Lock Casters.



Selective Steer

This option allows the user to choose if they want to Front Steer or Rear Steer. The Selective Steer Option utilizes both the front caster on the patient's left side and the rear caster on the patient's right side as the Steering Caster. The other casters are Total Lock Casters.

Modes of Operation

There are three positions for the offset locking bars. See image 1 on right.

FREE MODE: When both offset locking bars are in the FREE position; all (4) casters will roll and swivel freely. This position is used when you need to pull the chair away from an object in a perpendicular direction or turn the chair with a zero radius.

LOCKED MODE: When both offset locking bars are in the LOCK position; all (4) casters will not roll or swivel. This position is used to prevent unwanted movement of the chair.

REAR STEERING MODE: (This mode is only available with Rear Steer and Selective Steer Options.) When the left-hand locking bar is in the STEER position and the right-hand locking bar is in the FREE position; the (3) Total Lock Casters will roll and swivel freely and the (1) Steering Caster will roll but will not swivel. This mode is used for transport as the Steering Caster acts as a steering wheel to aid in easy transport.

FRONT STEERING MODE: (This mode is only available with Front Steer and Selective Steer Options.) When the right-hand locking bar is in the STEER position and the left-hand locking bar is in the FREE position; the (3) Total Lock Casters will roll and swivel freely and the (1) Steering Caster will roll but will not swivel. This mode is used for transport as the Steering Caster acts as a steering wheel to aid in easy transport.

WARNING/AVERTISSEMENT

If the Stretcher Bed has the Selective Steer Option, do not put both the left-hand and right-hand locking bar in the STEER Position. This will prevent the chair from turning.

Si la chaise a l'option de Conduire Sélective, ne mettez pas la barre de verrouillage à droite et à gauche dans la position de STEER (CONDUIRE) à la fois. Cela interdire la chaise de tourner.

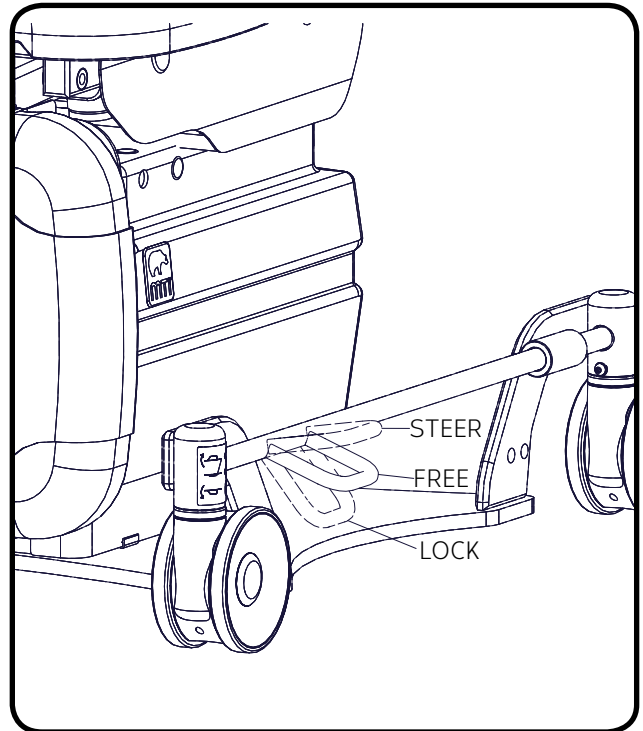


IMAGE 1

440 BATTERY SYSTEM

MTI developed the Smart battery with advanced lithium ion circuitry to power a chair that can be used from pre-op to post-op without the need to plug in the chair. Proper use, charging and storage is vital to the battery's functionality and life.

Your MTI Battery Powered Mobile Stretcher Bed (chair) has been designed to function using a highly sophisticated "Smart" lithium ion battery pack. The battery uses a System Management Protocol (SMP) to communicate with the circuit board and the charger.

The electronic circuit within the battery pack has a microprocessor to carry out fuel gauging computations and memory to store key data relating specifically to the lithium ion cells.

The electronics in the battery and those in the chair consume a small amount of current even while not in use. This will drain the power from the battery.

⚠ CAUTION/PRÉCAUTION

Do not remove or withdraw the battery from the battery holster while the chair is being operated, as damage to the battery may result.

Ne pas enlever ou retirer la batterie de l'étui de la batterie tandis que la chaise est actionné, car les dommages à la batterie peut entraîner.

⚠ CAUTION/PRÉCAUTION

Do not operate the chair with mains plug without completely removing the battery from the housing, otherwise damage may occur.

Ne pas utiliser la chaise avec prise secteur sans enlever complètement la batterie du boîtier, sinon des dommages peuvent survenir.

When the Smart Battery is inserted into the chair battery holster, the chair will automatically be powered by the battery, even if the chair is still plugged into an outlet.

⚠ CAUTION/PRÉCAUTION

The battery does not charge while plugged into the chair even if the chair is plugged into an outlet. See charging instructions for directions on charging the battery.

La batterie ne se recharge pas lorsqu'il est branché dans le fauteuil même si la chaise est branchée sur une prise. Voir les instructions de chargement pour les directions sur la charge de la batterie.

Charging

The battery has an LCD fuel gauge located on the end of the battery. This fuel gauge displays five (5) bars when fully charged. Each bar represents twenty percent of the battery's capacity (Figure 12).

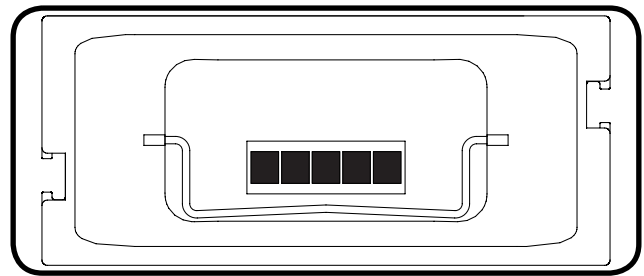


Figure 12

The battery has been partially charged at MTI. The battery needs to be fully charged before the chair is put into operation.

! NOTICE/AVIS

MTI recommends the following procedure be followed in order to ensure that the battery is always ready for use and has a long battery life.

MTI recommande la procédure suivante sera suivie afin d'assurer que la batterie est toujours prêt à l'emploi et dispose d'une batterie longue durée.

MTI provides (2) batteries for each chair purchased. Best practices are the following:

1. Have one of the batteries charging. Leaving the battery on the charger, even when fully charged, will not damage the battery or the charger.
2. At the end of each day, disconnect the charging battery and place the battery which was used in the chair during the day on the charger.
3. Before beginning procedures each day, plug the fully charged battery into the chair and leave the battery that is charging on the charger until you are ready to charge the next battery.

⚠ CAUTION/PRÉCAUTION

If the battery is stored for an extended period of time, the battery must be fully charged every 6 months in order to avoid premature failure of the battery.

Si la pile est stockée pour longtemps, la batterie doit être chargée complètement tous les 6 mois pour éviter une défaillance prématurée de la pile.

⚠ CAUTION/PRÉCAUTION

If the chair is not in use for 1 or more days, remove the battery from the chair, otherwise the battery will discharge. Leaving the battery in the chair for an extended period of time may result in premature failure of the battery.

Si la chaise est pas en cours d'utilisation pour 1 ou plusieurs jours, retirez la batterie de la chaise, sinon la batterie se décharge. Laissez la batterie dans la chaise pendant une période de temps prolongée peut entraîner une défaillance prématurée de la batterie.

⚠ CAUTION/PRÉCAUTION

If a battery is drained from power (no bars on LCD fuel gauge) it must be immediately removed from the chair. The battery must then be charged. If it is not charged, the battery will enter a shutdown mode. If the battery is left in shutdown mode, the battery will reach an unrecoverable state where it cannot be charged and must be replaced, (not covered by warranty). A battery that is left in shutdown mode too long will be indicated by a solid red LED on the battery charger when it is connected.

Si une batterie est déchargée de puissance (pas de barreaux aux jauge LCD), il doit être immédiatement retiré de la chaise. La batterie doit alors être chargée. Si elle est déchargée, la batterie passe en mode d'arrêt. Si la batterie est laissée en mode d'arrêt, la batterie atteindra un état irrécupérable où il ne peut être chargée et doit être remplacé, (pas couvert par la garantie). Une batterie qui est laissé en mode arrêt trop long sera indiqué par une LED rouge solide sur le chargeur de batterie lorsqu'il est connecté.

⚠ CAUTION/PRÉCAUTION

The battery must be charged with MTI's SMP Charger. If another charger is used, battery damage or other unknown events may occur.

La batterie doit être chargée avec SMP Chargeur de MTI. Si un autre chargeur est utilisé, les dommages de la batterie ou d'autres événements inconnus peuvent se produire.

The smart charging system is made up of a universal power cord, a 36 volt transformer, and the Smart Charger control head (Figure 13).

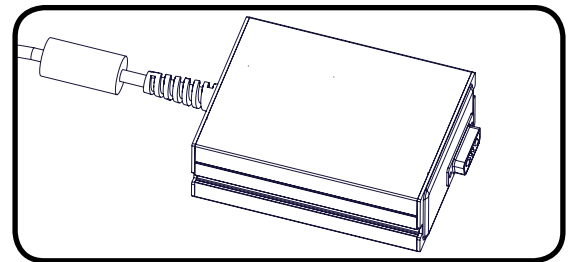


Figure 13

To charge the battery.

1. Plug the charger power cord into an appropriate electrical outlet.
2. Place the battery and charger on a flat surface.
3. Align the battery and charger and push them together (Figure 14)

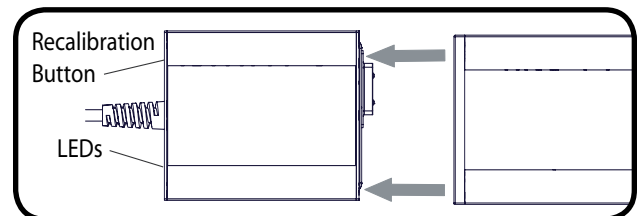


Figure 14

The charger will automatically begin to charge the battery. There are three LEDs on the cord end of the battery charger - the charger status window. The LEDs provide information about the charging status as detailed below.

LED Indication

The status of the battery is indicated by the LEDs visible in the status window:

Green flashing: Battery is charging

Green solid: Battery fully charged

Blue flashing: Battery is in calibration mode

Blue solid: Battery fuel gauge is calibrated

Green/Red flashing: Battery fuel gauge needs recalibration

Red solid: Error or in an unrecoverable state

Recharge Time

Different battery packs will require differing recharge times. The recharge time should be approximately three to three and a half hours for full charge, at which time the green LED should be solid and the fuel gauge on the end of the battery should show five bars. MTI developed the advanced lithium ion battery to help provide power for a chair that can be used from pre-op, through surgery, and to post-op all on one chair without the need to plug in the chair. Proper use, charging and storage is vital to the batteries functionality and life.

Discharging

The runtime of the battery will be reduced if it is operated below room temperature. Runtime is not increased by increasing the temperature, but it will reduce the overall life of your battery.

The runtime of your smart battery will also be reduced if it is discharged at high currents.

Recalibration

Frequent partial discharges are not a problem to your Smart Battery; however, after repeated use in this way the accuracy of the fuel gauge may be reduced. The Smart Battery has a built-in monitoring system which checks the accuracy of the fuel gauge, based on the discharge history of the battery. A flashing red LED on

the charger will indicate a battery fuel gauge needs recalibration.

Recalibration of the battery fuel gauge is achieved by plugging the charger into a properly grounded outlet and then pressing the recalibration button on the back of the charger. While recharging the battery, keep the charger away from direct sunlight or heat sources in order to avoid calibration errors.

Recalibration will take longer than the standard charge cycle and the battery will get warm.

WARNING/AVERTISSEMENT

Do not expose the charger or power supply to water or conductive liquids.

Ne pas exposer le chargeur ou alimentation à l'eau ou de liquides conducteurs.

WARNING/AVERTISSEMENT

Do not open the charger or power supply case. There are no user serviceable parts inside.

Ne pas ouvrir le boîtier du chargeur ou de l'alimentation. Il n'y a pas de pièces réparables par l'utilisateur.

CAUTION/PRÉCAUTION

Do not cover the charger case or leave in direct sunlight, as this could cause overheating.

Ne couvrez pas le boîtier du chargeur ou laisser à la lumière directe du soleil, car cela pourrait entraîner une surchauffe.

NOTICE/AVIS

Place the charger in a cool spot, away from external heat sources.

Placez le chargeur dans un endroit frais, à l'écart des sources de chaleur externes.

Battery Life

End of life on the MTI Smart Lithium Ion battery is defined as the point at which the battery fails to deliver 80% of its original rated capacity. This will occur after approximately 300 charge/discharge cycles.

Storage

MTI recommends that the battery and charger be stored at room temperature. Elevated temperatures will reduce storage life. MTI smart lithium ion batteries are shipped with 30-50% remaining capacity to give at least 6 months of shelf life at room temperature. However, it is recommended to fully charge the battery before the chair is operated or storing the battery. It is recommended that the battery is recharged every 6 months if in storage.

Battery Disposal

The MTI Smart Lithium Ion Battery is classified by the US federal government as non-hazardous waste and is safe for disposal in the normal municipal waste stream. However, the smart battery does contain recyclable materials and is accepted for recycling by a number of regional battery recycling programs. MTI encourages you to recycle your battery. The battery charger must be recycled and cannot be disposed of in a landfill.

In North America, contact the Rechargeable Battery Recycling Corporation (RBRC) at www.call2recycle.org.

! NOTICE/AVIS

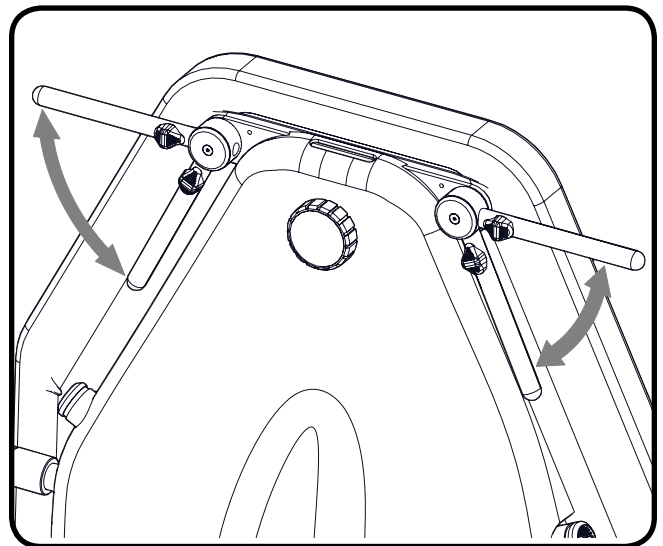
The MTI Smart Lithium Ion Battery is made of lithium ions. It contains 6 grams equivalent of lithium and is safe for consumer use.

Le MTI batterie intelligente au lithium-ion est faite d'ions lithium. Il contient 6 grammes équivalents de lithium et est sans danger pour l'utilisation.

STEERING HANDLE OPERATION

The 440 series comes standard with fold-away push handles to help make it easy to transport patients. The handles lock in place in the up positions. To unlock the handle, slide the knob on the handle towards the end of the handle and rotate the handle downward.

Depending on the situation, it may be beneficial to use the optional removable steering handles or the optional foot mounted steering handles. Refer to their instruction guides for use instructions.



LIST OF ACCESSORIES

DESCRIPTION	USE	RESTRICTIONS
Accessory Rail Mounting Bracket	Bracket to mount various devices such as: hyfrecators and lights.	Requires Base Rails. Not compatible with Bed Rails.
Arm, Deluxe 8-way 18" IV/Surgery (Floating or seat mounted)	Provides an articulating surface for patient's arms.	Seat mounted requires seat rails. Floating requires Floating Arm Option.
Arm, Standard 8-way, 18" IV/Surgery (Floating or seat mounted)	Provides an articulating surface for patient's arms.	Seat mounted requires seat rails. Floating requires Floating Arm Option.
Arm, Deluxe 8-way Back Rail Mounted 24" IV/Surgery	Provides an articulating surface for patient's arms.	Requires Back Rails.
Arm, Standard 8-way Back Rail Mounted 24" IV/Surgery	Provides an articulating surface for patient's arms.	Requires Back Rails.
Arms, Slide Back Floating (set)	Used by patient to rest their arms during exams/procedures.	Requires Floating Arm Option.
Arms, Slide Back Floating w/2" Risers (set)	Used by patient to rest their arms during exams/procedures.	Requires Floating Arm Option.
Arm, Standard 4-way Removable Patient Arm (Floating and Seat Mtd)	Used by patient to rest their arms during exams/procedures.	Seat mounted requires Seat Rails. Floating requires Floating Arm Option.
Base Mount 1/2" Post	Provides an additional base mount to facilitate moving 1/2" posts to other side of chair.	
Bed Rails, Swing Up/Down (Floating)	Provides a vertical surface to secure patient.	Require Floating Arm Option.
Bed Rails, Swing Up/Down (Mounted to Slide Back Floating Arms)	Provides a vertical surface to secure patient.	Requires Arms, Slide Back Floating. Requires Floating Arm Option.
Body Strap	Used for securing a patient to the chair during procedures	
Chart Holder	Used to keep patient's chart on the bed.	Mounts to patient's left hand side only.
Corded Hand Control w/Mount	Provides a control for the chair and a mount for hanging the hand control.	
Foot Control	Provides the ability for the chair to be controlled by the operators foot.	
Hand Control Caddy, Flexible	Used to hold a hand control.	Requires Seat or Base Rails.
Hand/Arm Surgery Table	Provides an articulating surface for patient's arms.	Requires Back Rails.
Hand/Forearm Procedure Table (Floating or seat mounted)	Provides an articulating surface for patient's arms.	Seat mounted requires seat rails. Floating requires Floating Arm Option.
Headrest, Articulating Oval, Deep Oval, Prosthetic, Round, Horseshoe/Donut	Provides an articulating surface with various pillow shapes/sizes to support patient's head.	

LIST OF ACCESSORIES

DESCRIPTION	USE	RESTRICTIONS
Headrest, Non-Articulating Oval, Rectangular	Provides a surface with oval or rectangular pillow shapes which do not articulate.	
Headrest, Oval Articulating with Drape Support	Provides a dual articulating oval cushion to support the patient's head with an adjustable drape support rod.	
Headrest Stabilizer Cushion	Supports/stabilizes patient's head during procedure.	Requires Deep Oval Articulating Headrest for removable wrist supports.
IV Rod, Base Mounted	Provides an adjustable IV rod.	
IV Rod and Holder	Provides an adjustable IV rod mounted to a 1/2" Post.	Requires a 1/2" Post.
IV Rod and Holder	Provides an adjustable IV rod mounted to Base Rails.	Requires Base Rails.
Light, Lumerus LED	Provides lighting during patient procedures.	Requires Base Mounted Post or Base Mounted Mayo Tray w/Light Adapter.
Mayo Tray with Light Adapter, Base Mounted (RH/LH)	Combines a mayo tray and light on one mount.	
Mayo Tray, Base Mounted (RH/LH)	Provides a tray for the placement of small instruments and other items.	
Monitor Tray, Post Mounted	Mounts a patient monitor for viewing during procedures.	Requires Base Mounted Post.
Oxygen Tank Holder	Used to hold an oxygen tank on the chair.	Not available mounted on the right side with an Accessory Rail Mount Bracket, Base Mounted IV or Base Mounted Mayo Tray.
Oxygen Tube, Flexible	Used to supply oxygen to the patient and/or a flexible drape support.	
Oxygen Tube/Drape Support, Rigid	Used to supply oxygen to the patient and/or a rigid drape support.	Requires Back Rails.
Paper Roll Holder	Used for mounting a paper roll to the back of the chair.	
Post, Base Mounted (RH/LH)	Used in combination with a Monitor, Tray, or Light.	
Rail Clamp	Provides a clamp that can lock onto 1 1/8" x 3/8" size rails and accepts 5/8" post.	Requires Seat or Base Rails.
Rails, Back, Removable (set)	Provides removable standard hospital rails to the back of the chair for mounting accessories.	

LIST OF ACCESSORIES

DESCRIPTION	USE	RESTRICTIONS
Rails, Base	Provides a rail for mounting an IV pole or accessory bracket.	Cannot be used with Base Mounted Mayo Tray or Base Mounted Post.
Rails, Seat (set)	Provides standard hospital rails to the seat of the chair for mounting accessories.	
Restraint Strap, Leg	Provides a strap to secure the patient's legs.	
Restraint Strap, Body with snaps or Velcro®	Provides a strap to secure the patient's body.	Strap with snaps mounts to seat frame. Strap with Velcro® requires Seat Rails and fastens around Seat Rails.
Slant Mount, Foot Control	Provides a slanted surface to mount a foot control at the back of the chair.	
Steering Handles, Foot Mounted	Provides handles on the foot for steering the chair when the foot rest is up.	
Steering Handles, Removable (Back Mounted)	Used to provide a higher set of steering handles that are removable.	
Stirrups (LH/RH)	Used to position patients legs during procedures.	Requires Seat Rails
Syringe Bracket Holder	Provides a trapezoidal mount to attach a syringe holder to an IV/Surgery Arm.	
Wrist Support, Crescent or U Shaped	Adjustable support for wrists during procedure.	Requires Deep Oval Articulating Headrest for removable wrist supports.

MAINTENANCE

WARNING/AVERTISSEMENT

There are no user serviceable parts inside. Refer all servicing to a qualified service technician.

Aucune pièce interne ne peut être réparée par l'utilisateur. Adressez-vous à un technicien qualifié.

WARNING/AVERTISSEMENT

After equipment is serviced, verify programmable positions are safe and known positions.

Après l'équipement est révisé, vérifier les positions programmables sont des positions sûres et connues.

WARNING/AVERTISSEMENT

The Control of Hazardous Energy (lockout/tagout) §1910.147 procedure must be followed to disable equipment, preventing the release of hazardous energy while performing servicing and maintenance activities.

La procédure de La Maîtrise des Énergies Dangereuses (lockout/ déconsignation) § 1910.147 doit être suivie pour désactiver l'équipement, empêchant la libération des énergies dangereuses lors de l'exécution des activités de maintenance et d'entretien.

CAUTION/PRÉCAUTION

This equipment may be damaged by solvents and dyes. Immediately remove any fluids spilled on the equipment.

Cet équipement peut être endommagé par des solvants et des colorants. Retirer immédiatement tout liquide renversé sur l'équipement.

CAUTION/PRÉCAUTION

Avoid contact with sharp or pointed objects. Do not place hard surface objects on the upholstery surfaces as temporary indentations or impressions in the upholstery cover will result. Prolonged contact with a hard or irregular shaped object may make the impression semi-permanent.

Éviter le contact avec des objets pointus ou tranchants. Ne placez pas d'objets de surfaces dures sur les surfaces de capitonnage d'ameublement, comme des empreintes temporaires ou des impressions dans le couvercle du capitonnage en résulteront. Un contact prolongé avec

un objet en forme de disque ou irrégulière peut faire l'impression semi-permanente.

CAUTION/PRÉCAUTION

Any sprayed disinfectant or cleaning solution should be wiped up immediately after application and not let to stand. A small sample area should be tested before any large application of any cleaner/disinfectant.

Tout désinfectant pulvérisé ou solution de nettoyage doivent être essuyés immédiatement après l'application et ne pas laisser reposer. Une petite zone de l'échantillon doit être testé avant toute application complète d'un nettoyeur/désinfectant.

CAUTION/PRÉCAUTION

Avoid prolonged direct sunlight exposure to preclude color change of the plastic.

Évitez l'exposition directe au soleil prolongée pour empêcher le changement de couleur des éléments en plastique.

NOTICE/AVIS

MTI recommends cleaning the equipment frequently.

MTI recommande de nettoyer l'appareil fréquemment.

Cleaning and Disinfection

Upholstery

Upholstery should be cleaned weekly with a mild liquid soap and warm water mixture. Afterwards, wipe upholstery with clean damp cloth.

MTI's standard policy on disinfecting MTI medical equipment is to use a 10% sodium hypochlorite (bleach) and 90% water solution. If stronger or other disinfecting and cleaning solutions are used, the surface is at risk to be damaged or possibly cause discoloring, cracking, or other types of damage to the surface. See current CDC Guideline for Disinfection & Sterilization in Healthcare Facilities.

MTI understands that many customers prefer to use a pre-mixed disinfecting solution in a spray or wipe. It is MTI's recommendation not to use sprays because over time the overspray will cause damage to the surfaces if not immediately wiped up. MTI recommends hand towels or wipes to avoid the possibility of overspray.

Once the approved contact time has been obtained, remove and dry excess liquid remaining on the surface.

See "MTI Cleaning Solution Recommendation Letter" for more details on disinfecting solutions which have been tested on MTI's products. It is available for download at <http://www.mti.net/downloads.aspx> in the Product Support Bulletins folder, found under the Resources tab on our website. In the U.S. & Canada, call (888) 520-4998, or International, call (801) 875-4998 to request a copy.

Painted and Plastic Surfaces

All painted metal parts have been electrostatically painted and the paint is baked on for durability. These surfaces should be wiped down with a quality grade cleaner and a soft cloth or a damp cloth with mild soap once a week.

Preventative Maintenance

Periodically inspect the following areas:

1. All fasteners and pins should be in place and tightened securely.
2. Lubricate pins and moving joints as needed with lithium grease.
3. Power cord should be free of cuts or other visible damage.
4. All mechanical functions should operate properly.

Have an authorized service technician inspect your equipment once a year.

Fuse Replacement Instructions

1. Unplug the chair.
2. Open the fuse drawer below the female connection for the power cord.
3. Remove the burnt fuse(s). (Needle nose pliers or hemostats may be needed.)
4. Insert new fuse(s) with same type of fuse removed in step 3. (See figure 1 below) See "SPECIFICATIONS" on page 26 for fuse type.
5. Close the fuse drawer.
6. Reinsert the power cord into the base of the chair and secure it with the retainer clip.

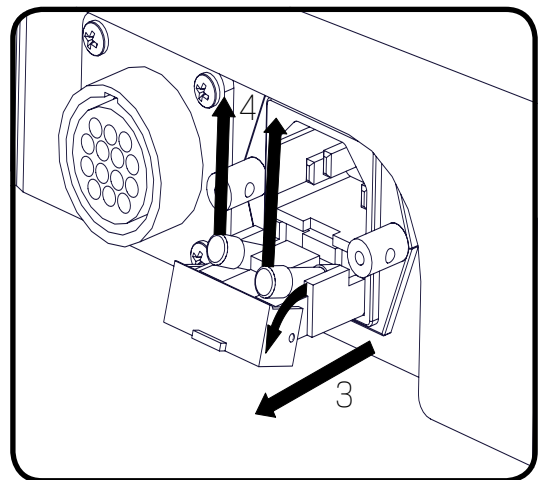


Figure 1

Calls for Service

Equipment's model and serial number information are required when calling for service.

Serial number is indicated by the **SN** symbol located on the serial number tag.

If service is required, contact MTI

U.S. & Canada 888-520-4998

International 801-875-4998

Fax (801) 952-0548

customer.service@mti.net

Monday-Friday 8:00 am - 5:00 pm (MST)

www.mti.net

LIMITED WARRANTY

Medical Technology Industries, Inc. (hereinafter referred to as MTI), shall repair or replace products of its manufacture, which prove to be defective in material and/or workmanship for a period of twelve (12) months from the date of shipment to the customer (the "Warranty Period"). MTI will, at its option, provide parts to the customer or repair the defective part at MTI's factory or authorized repair facility. Except as it may otherwise specifically agree in writing, MTI shall not be liable for transportation or labor charges for repairs or adjustments or other work done on any of its products by MTI's authorized dealers or service organizations.

Customer shall notify MTI of any alleged claim or defect within fourteen (14) days from the date customer discovers, or upon reasonable inspection should have discovered, such alleged claim or defect (but in any event before the expiration of the Warranty Period). All repair parts are warranted for Ninety (90) calendar days from the date of shipment to the customer. Warranty is non-cumulative.

This warranty does not apply to any part or product which upon examination by MTI or its authorized agents indicates the product has been repaired or altered in any way by persons other than MTI or its authorized agents, has been misused, abused or used in a manner contrary to any instructions issued by MTI. Any parts or products claimed under this warranty must be properly packaged by customer and returned to MTI's factory with no liability to MTI for the parts, products or transportation charges thereon.

In no event, shall MTI have any liability for consequential, indirect, incidental, special, exemplary, punitive or enhanced damages, lost profits or diminution in value arising out of or relating to a product defect or the repair or replacement of any products manufactured or sold by it.

THE FOREGOING LIMITED WARRANTY IS MADE IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, AND MTI MAKES NO OTHER WARRANTY WHATSOEVER WITH RESPECT TO THE PRODUCTS INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

TROUBLESHOOTING GUIDE

NOTICE/AVIS

For more information on this equipment, including circuit diagrams, parts and service manuals, and other descriptions, please contact MTI.

Pour plus d'informations sur cet équipement, y compris des schémas de circuits, les manuels de service et pièces, et autres descriptions, s'il vous plaît contacter MTI.

#	SYMPTOM	PROBLEM CAUSE	SOLUTION
1	Chair will not function.	Chair power cord is not plugged in Battery is not inserted Battery is discharged.	Verify power cord is securely connected at both ends or check battery gauge.
2	Chair will not function.	Facility power receptacle problem.	Check facility's power receptacle with a known working device of same voltage specifications.
3	Chair will not function.	Facility power receptacle problem.	Check facility circuit breaker to verify it is not tripped.
4	Chair will not function.	Facility supply voltage is incorrect voltage.	Verify voltage is per specifications on chair serial number/product tag.
5	Chair motor will not function.	Electrical lockout switch is off.	Flip the Electrical Lockout Switch. See "Electrical Lockout" on page 12.
6	Chair will not function.	Fuses have blown	Verify fuses are not burnt. Replace fuse(s) if necessary. See "Fuse Replacement Instructions" on page 22.
7	Chair will not function or a function is erratic.	Controls are not securely connected.	Verify each control is securely connected to the chair. See "Unpacking & Set-up" on page 8 for instructions how to securely connect controls.
8	Chair will not function or a function is erratic.	Circuit board isn't functioning correctly.	Contact Customer Service.
9	Lift function is slower than usual and only goes up about halfway.	One of the lifting column motors is not functioning or circuit board isn't functioning correctly.	Contact Customer Service.
10	Back, Tilt, Lift or Foot functions will not function.	Circuit board has disabled motor(s). The controller may disable individual motor(s) to prevent motor damage in the event that a failure in the circuit board is detected or unusual motor operation has occurred.	Reset circuit board. For chairs with a circuit board revision AG (June 2014) and after, flip the electrical lockout switch to "OFF" position, wait 2 seconds, and then flip the it on. See "Electrical Lockout" on page 12. For chairs with a circuit board revision AD and prior, unplug the chair from power and wait one minute and plug back in.

TROUBLESHOOTING GUIDE

NOTICE/AVIS

For more information on this equipment, including circuit diagrams, parts and service manuals, and other descriptions, please contact MTI.

Pour plus d'informations sur cet équipement, y compris des schémas de circuits, les manuels de service et pièces, et autres descriptions, s'il vous plaît contacter MTI.

#	SYMPTOM	PROBLEM CAUSE	SOLUTION
11	Back, Tilt, Lift or Foot functions will not function.	Motor is not functioning or circuit board isn't functioning correctly.	Contact Customer Service.
12	The circuit board has to be reset often.	Possible faulty circuit board.	Contact Customer Service.
13	The battery will not charge fully.	The battery gauge needs to be recalibrated.	Recalibrate the battery. See "Recalibration" on page 16.
14	Chair will not function while on battery power while battery fuel gauge indicates power remaining.	The battery has detected a high current load and has shut off.	Wait 1 minute for the battery to reset, or swap with a different battery. It may be necessary to reposition a patient if the battery locks out repeatedly.

SPECIFICATIONS

DESCRIPTION	SPECIFICATION
Lifting Capacity	650 lbs (295 kg)
Weight (including upholstery kit and foot control)*	373 lbs (169.2 kg) w/o accessories
Table Top Range: 440H 440L	High Version: 22" \pm 0.5" to 38" \pm 0.5" (55.9 \pm 1.3 cm to 96.5 \pm 1.3 cm) Low Version: 20" \pm 0.5" to 31.5" \pm 0.5" (50.8 \pm 1.3 cm to 80.0 \pm 1.3 cm)
Back Section Range	0° (horizontal) to + 85° \pm 5°
Table Top Tilt Range	0° to 30°
Foot Section Range	0° (horizontal) to + 90° \pm 5°
Foot Control	Rated Drip Proof
Hand Control	Rated Drip Proof
General Dimensions	High Version: 24" (61 cm) wide x 73" (185.4 cm) long Low Version: 24" (61 cm) wide x 71" (180.3 cm) long
Power Cord	Plugs: U.S.A. standard 3 prong and IEC 60320-C13.
Electrical Ratings:	115 VAC \pm 10%, 4 amps, 60 HZ 230 VAC \pm 10%, 2 amps, 50 HZ
Fuse Replacement	PC Board: 32 V, 20 A, Fast Acting, 6.3 mm x 32 mm At power cord inlet: 250 V, 4 Amp, Slo-Blow, on 115 V, 5mm x 20mm 250 V, 2 Amp, Slo-Blow, on 230 V, 5mm x 20mm
Duty Cycle	Intermittent Operation, 10% Duty Cycle Example: (1) minute on (9) minutes off
Classification	Class 1, Type B Equipment, Ordinary Equipment, Intermittent Operation
Listing/Approvals	ETL, UL 60601-1, 1st Edition, CAN/CSA-C22.2 No. 6011-M90, CE
Battery Life	Approximately 300 charge cycles
* Weight and dimensions may vary depending on accessories purchased and international shipment weights and dimensions may vary.	



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