SKYTRON®

SURGICAL TABLE
OPERATORS MANUAL

6701 HERCULES

TEC-D-0010 REV2
6/11

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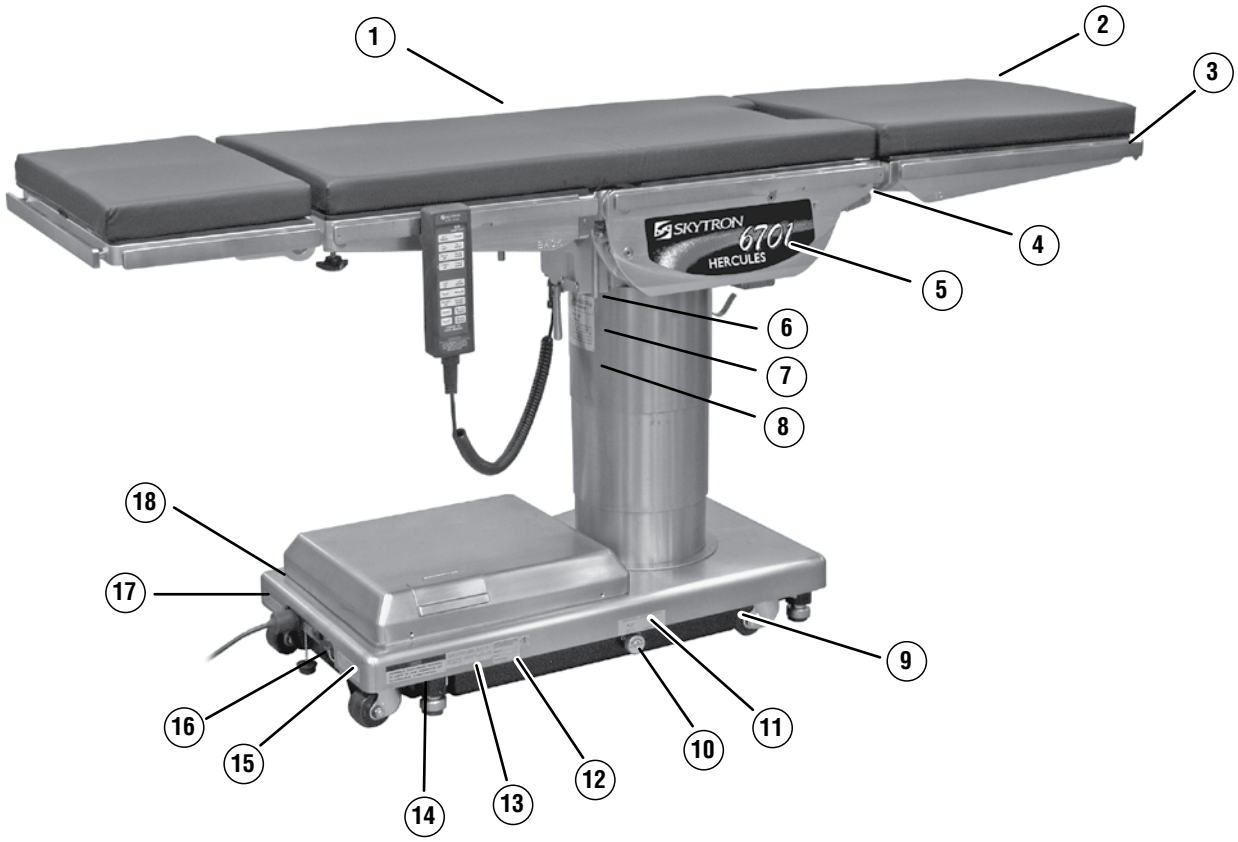
Although current at time of publication, SKYTRON's policy of continuous development makes this manual subject to change without notice.

6701 EQUIPMENT LABELS



1

<NOTE>
DUE TO INTERLOCK SYSTEM, BACK SECTION CANNOT BE RAISED ABOVE HORIZONTAL WHEN KIDNEY LIFT IS RAISED

2

WARNING
USE HEAD SECTION AS FOOT EXTENSION ONLY - WHEN REVERSING PATIENT ON TABLE REFER TO OPERATOR MANUAL.

3

WARNING
DO NOT SIT ON END OF LEG SECTION(S) AS LOADS IN EXCESS OF 140 LBS. MAY CAUSE INSTABILITY THAT COULD CAUSE THE TABLE TO BE TIPPED OVER.

4

SKYTRON
GRAND RAPIDS, MI
1-800-SKYTRON
(616) 957-0500
IPX4
REFER TO ACCOMPANYING DOCUMENTS
MODEL NO. 120V 60 Hz 5 AMP
SERIAL NO.
FUSE AMP FAST ACTING
MANUFACTURED BY MIZUHO IKA CO., LTD. - TOKYO, JAPAN

5

SKYTRON 6701 HERCULES

6

TOP ROTATION
HANDLE

7

TABLE TOP
---------- WARNING ----------
ALWAYS LOCK THE TABLE TOP IN POSITION AFTER A FULL ROTATION OF 180° DO NOT ROTATE THE TOP WITH AN UNDISTRIBUTED PATIENT LOAD AS INSTABILITY MAY RESULT, EXERCISE CAUTION WITH THE TABLE TOP ROTATED 90° TO THE BASE SINCE AN IMPROPERLY DISTRIBUTED PATIENT LOAD MAY CAUSE THE TABLE TO BE TIPPED OVER.

8

Table Capacity:
Lift 1200 lbs.
Articulate 1000 lbs.
See Operators Manual for Limitations.

9

TYPE B EQUIPMENT

10

UNLOCK LOCK

11

EMERGENCY BRAKE RELEASE
UNLOCK CLOCKWISE
LOCK COUNTER-CLOCKWISE

12

THIS PRODUCT COMPLIES WITH RADIATION PERFORMANCE STANDARD 21 CFR AT THE TIME OF MANUFACTURE
Manufactured: _____
Model No. _____
SKYTRON

13

DANGER - EXPLOSION HAZARD. DO NOT USE IN THE PRESENCE OF FLAMMABLE ANAESTHETICS
DANGER - RISQUE D'EXPLOSION. NE PAS EMPLOYER EN PRESENCE D'ANESTHESIQUES INFLAMMABLES

14

DANGER
POSSIBLE EXPLOSION HAZARD IF USED IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

15

CAUTION
To reduce the risk of electric shock, do not move cover or back. Refer servicing to qualified service personnel. Refer to accomanying documents.

16

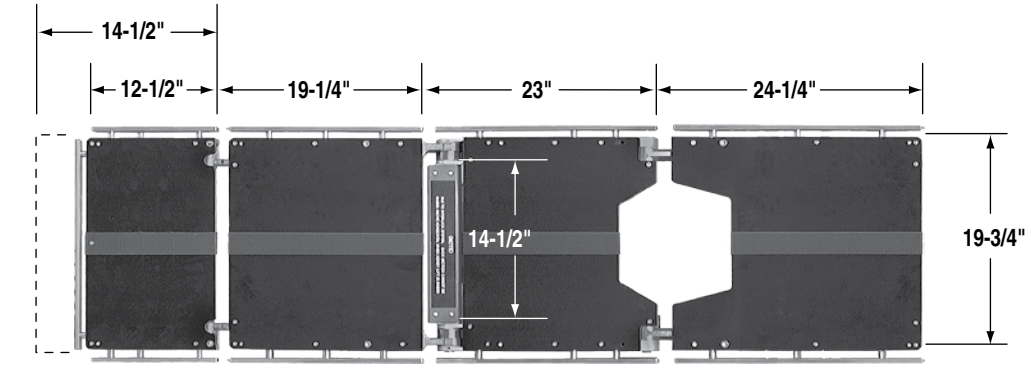
17

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

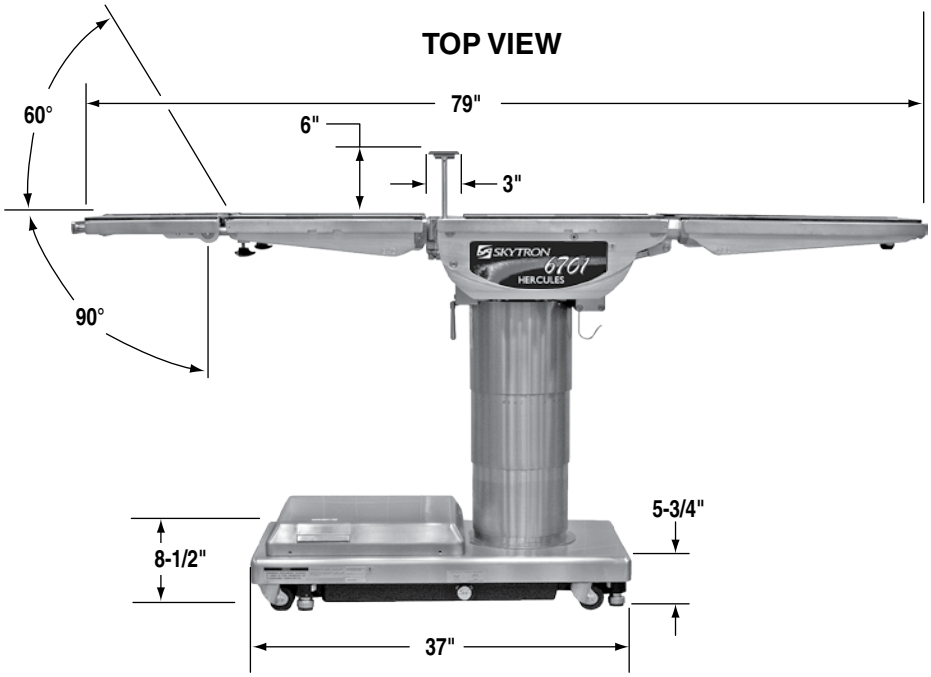
18

TWIST TO LOCK OR RELEASE PLUG

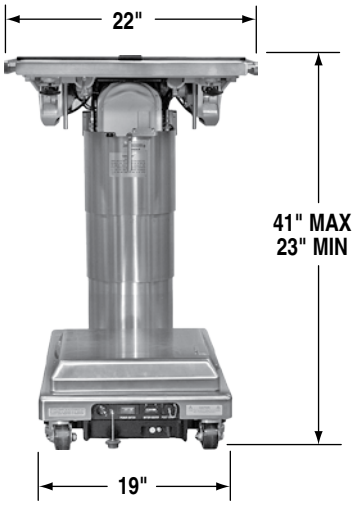
6701 Hercules General Purpose Surgical Table Specifications



TOP VIEW



SIDE VIEW



END VIEW

ETL LISTED
CONFORMS TO
UL STD 60601-1
CERTIFIED TO
CAN/CSA STD C22.2 NO.601.1

Electrical Specifications

Power requirements	120 VAC, 60Hz, 450 Watts
Current Leakage	Less than 100 micro amps
Power Cord	15 feet w/hospital grade connector (removable)

CLASS I DEFIBRILLATION PROOF, TYPE B EQUIPMENT- IPX4 RATED.
INTERNALLY POWERED EQUIPMENT

UNIT TO BE USED ONLY IN SPECIFIED ENVIRONMENTAL CONDITIONS
TEMPERATURE: 15° - 30° C (60° -85° F)
HUMIDITY: 30% - 60% RELATIVE HUMIDITY, NON CONDENSING

SPECIAL USER ATTENTION

Prior to use, all personnel that may operate this table must be instructed in the correct operational procedures. This table is designed for use by trained and qualified personnel for human medical purposes only.

Initial use should not begin until after the users have been instructed by the manufacturer's representative.

A routine instructional program must be implemented by the facility for proper usage instructions for all personnel that may operate this table.

The maximum lifting capacity of the 6701 Hercules table is 1,200 pounds and the maximum articulation weight capacity is 1,000 pounds. When lifting or articulating large patients, pay close attention to the patient position as well as the positioning guidelines and limitations listed in the operation instructions.

The extreme positioning capabilities of the 6701 Hercules Table requires special attention for possible interference points when using multiple function positioning. As with the operation of any surgical table, a certain amount of care should be exercised to position the patient safely. Although the thick pads and sheets substantially protect the patient, pinch points, located at the joints of the top section should always be considered. BE SURE THAT THE ARMS, HANDS AND FINGERS OF THE PATIENT AND THOSE OF THE OPERATING ROOM PERSONNEL ARE CLEAR OF ALL MOVING PARTS BEFORE MOVING THE TABLE. Proper restraints should always be used for patient safety.

Certain accessories such as the Uro-Drain Tray, Armboards and X-Ray top can be damaged when changing the position of the table top sections. Always look first to see if a desired movement is going to interfere with any accessories in use.

The operator has the ultimate responsibility of preventing damage to the table and surrounding equipment or possible injury to the patient or staff.

The operator must ensure proper positioning is maintained to prevent compromizing respiration, nerve pathways or circulation.

In general, common sense will dictate when there is a potential hazard.

The following precautions should be reviewed by all personnel prior to operating the table.

WARNING

Indicates a possibility of personal injury.

CAUTION

Indicates a possibility of damage to equipment.

NOTE

Indicates important facts or helpful hints.

This equipment is intended for use by healthcare professionals only. This equipment may cause radio interference or may disrupt the operation of nearby equipment. It may be necesssary to take mitigation measures, such as re-orienting or relocating the table or shielding the location.

Do not use worn or damaged accessories, they represent an injury hazard.

Remove possible obstacles before lowering or tilting the operating table

Do not place objects on the base of the table, a danger of damage exists during positioning.

Use caution when articulating the table top, pinch hazards exist.

NOTE

Activating any function button will activate the brake system. Using the TABLE UP function to set the brakes provides a visual assurance that the brakes are locked without altering the table position, except when emergency brake is released.

WARNING

Possible explosion hazard exists if table is used in the presence of FLAMMABLE ANESTHETICS.

NOTE

An equalization grounding terminal is located under the main power panel. This is provided as an alternate pathway to reduce the risk of static shock hazards. Always follow recommended grounding procedures to ensure patient and staff safety.

NOTE

The table will operate correctly on battery power with the power cord connected to a wall outlet or disconnected.

NOTE

Battery Operation must be turned OFF at the pendant control. It can not be turned Off using the main power switch.

NOTE

Turning the Main Power Switch ON will change the table operation to 120 VAC power.

NOTE

When the red light starts to blink (indicating low power in battery) the table will operate for approximately 5 continuous minutes, typically long enough to use the table for the rest of the day.

NOTE

The charging system operates ONLY when the table is in AC120V operation mode.

NOTE

The table can be operated on 120VAC power while the battery is being recharged.

NOTE

If the table is stored for a period greater than 6 months, the batteries should be removed and stored in a dry, clean condition at a storage temperature of 68° F (20° C). Batteries should be recharged every 6 months of product storage.

SPECIAL USER ATTENTION

WARNING

•Do Not unlock brakes when patient is on the table. An uneven patient weight load may cause instability.

•If circumstances demand table brakes to be unlocked, the patient must be centered and evenly distributed on the table top (i.e. supine or prone position) with the table lowered to its lowest height position. The maximum patient weight should not exceed 500 pounds. Table top rotation must be in normal orientation, that is, the back section over the long end of the table. Patient's head must be on the head section. Head section must be attached in its normal orientation to the table's back section.

•Prior to unlocking brakes, check for obstructions on the floor that might prevent the table from moving smoothly to new location. Relock the brakes immediately once the final position is reached and before commencing surgery. Table brakes should remain locked at all times if patient weight exceeds 500 pounds.

NOTE

With an evenly distributed patient weight load, all table positioning functions will operate smoothly and quietly with a patient weight of up to 1,000 pounds.

NOTE

To prevent table damage, a safety interlock limits Trendelenburg positioning to 20° if lateral tilt positioning exceeds 20°. An audible alarm will sound.

WARNING

To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg positioning.

NOTE

To prevent table damage, a safety interlock limits lateral tilt positioning to 20° if Trendelenburg positioning exceeds 20°. An audible alarm will sound.

WARNING

To maximize patient safety, utilize proper restraint methods during extreme lateral tilt positioning.

NOTE

To prevent damage to the kidney lift, a safety interlock prevents the back section from going above horizontal if the kidney lift is not all the way down. If the kidney lift is raised, an audible alarm will sound when the BACK UP button is pressed.

NOTE

If back section is below horizontal, BACK UP function is limited to 800 pound patient weight.

WARNING

The Leg section may hit the table base or the floor if both the leg and elevation systems are placed in their full down position.

NOTE

When REFLEX button is activated, if Kidney Bridge is up, the back section will not go above horizontal.

NOTE

To prevent damage to the kidney lift, a safety interlock prevents the kidney lift from going up if the back section is raised above horizontal. An audible alarm will sound.

NOTE

Elevation and brake system functions are not affected by the return to level function.

CAUTION

The Back Section/Kidney Lift safety interlock is not operational when the emergency back-up control switches are used.

CAUTION

The EMERGENCY BRAKE LOCK switch does not activate the brake system timer. The switch must be held until the brakes are completely locked, approximately 10 seconds.

NOTE

The emergency back-up control switches will function when the table is operating on 120VAC power, battery power, or turned off.

NOTE

•The Emergency Brake Release Valve must be closed and tightened (counter-clockwise) before activating any hydraulic function.

•If the Emergency Brake Release Valve has been operated, the BRAKE UNLOCK button on the pendant control will have to be pressed before brakes will lock again.

NOTE

To make the Back Section easier to handle, remove the Head Section and X-ray Top prior to removing the Back Section.

WARNING

Ensure that the Leg and Back sections are properly engaged and secured to pins before use to prevent injury.

NOTE

The Leg and Back sections are labeled for proper orientation. The Leg section cannot be installed on the Back section pins.

SPECIAL USER ATTENTION

NOTE

Normal table top position is with the head (and back) section over the power cord end of the base.

WARNING

Always lock the table top in position after rotation. DO NOT rotate the top with an unevenly distributed patient weight load as instability may result.

WARNING

•Make sure the TOP ROTATION LOCK HANDLE is tightened and the brakes are set before transferring the patient.

•Exercise caution with the table top rotated 90° to the base since an improperly distributed patient load may cause the table to be tipped over. A table support rod is required for 90° positioning. See Specialty Positioning.

WARNING

Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.

WARNING

When an antistatic pathway is required, the table has to be used on an antistatic floor.

WARNING

The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.

WARNING

Certain accessories may limit weight capacities. Check with your SKYTRON representative.

WARNING

SKYTRON Products are guaranteed for proper performance with the use of genuine SKYTRON accessories.

Accessories and products not furnished by SKYTRON have not been tested for proper performance and safety. Such applications or use are at the discretion of the user to ensure patient and staff safety.

CAUTION

Do not use the table if any of the inspection points fail.

WARNING

Personal injury to patient or staff may result from a lack of proper maintenance of this equipment.

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.

CAUTION

Caution should be taken when cleaning the table to prevent excessive fluid entry into electrical connectors.

WARNING

Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.

CAUTION

Thoroughly read and follow the manufacturer's directions for all cleaning fluids. DO NOT use cleaners containing phenolics.

CAUTION

When using spray cleaners DO NOT spray fluids directly into electrical receptacles or micro switches.

CAUTION

Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

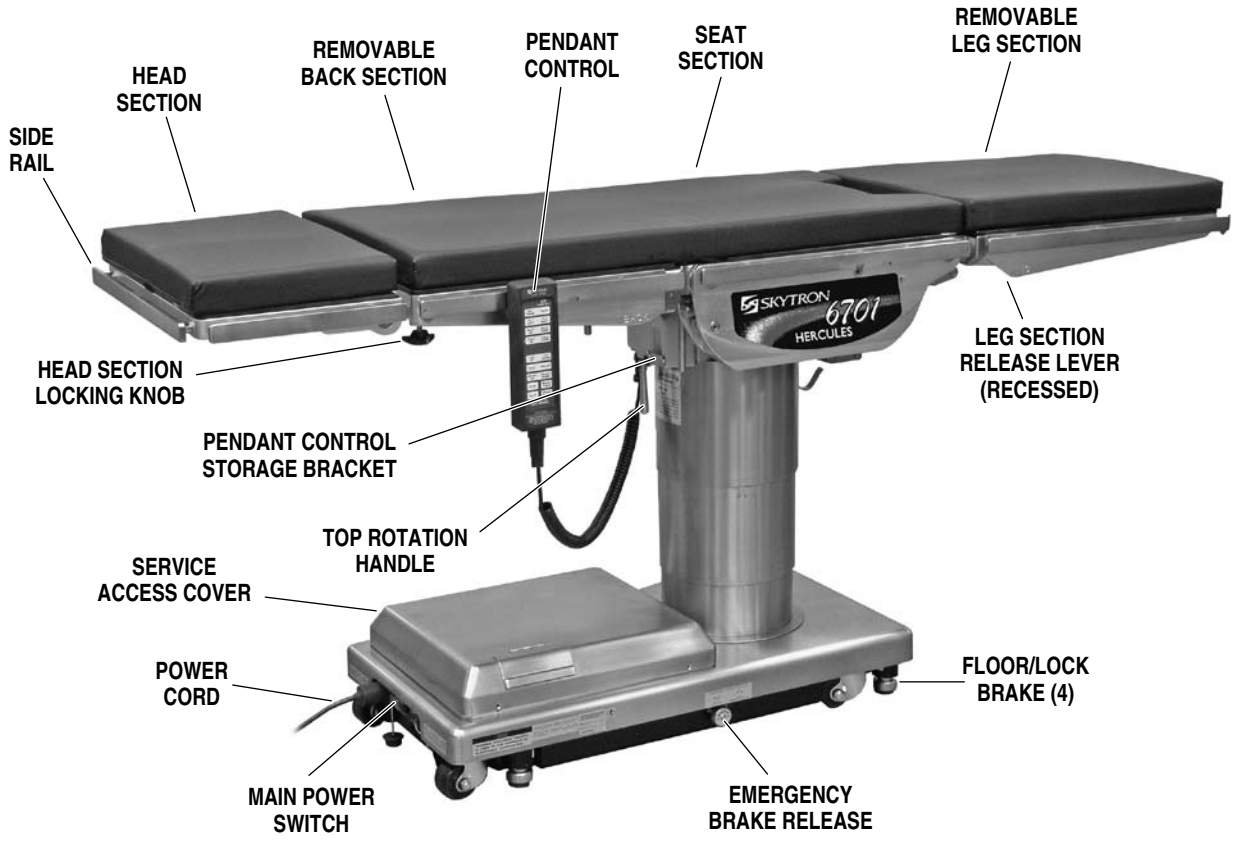


Figure 1-1. 6701 HERCULES

1-1. General

SKYTRON's 6701 Hercules Surgical Table is an electro-hydraulically operated, general purpose surgical table. See figure 1-1.

The electro-hydraulic positioning functions operated by the hand-held, push button, pendant control unit are: Trendelenburg, lateral tilt, back section, elevation, leg section, flex/reflex, kidney lift, return to level, beach chair and the floor lock/brake system.

Manual controls are provided for head section positioning, table top rotation, emergency brake release, back section removal and leg section removal.

1-2. Power Requirements

The 6701 Hercules Surgical Table requires a 120VAC, 60 Hz electrical power supply. The table is equipped with a removable 15 foot long power cord with a three prong, hospital grade plug. The main power ON/OFF switch is located on the electrical panel on the front edge of the table base. See figure 1-2.

The battery charging indicator and foot control connector are also located on the electrical panel.

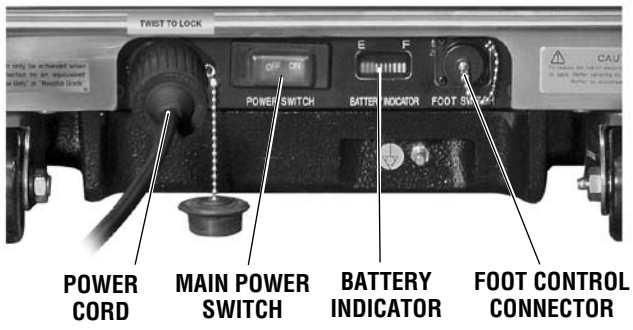


Figure 1-2. Electrical Panel

1-3. Pendant Control Unit

The hand-held pendant control unit (figure 1-3) has a non-slip rubber cover which assures a positive grip during use. A spring clip hanger is located on the back of the control for storage. When the Pendant Control is not in use, it should be stored on a convenient side or end rail. A bracket is located under the table top next to the pendant control connector for storage of the Pendant Control when the table is not in use and during cleaning. See figure 1-4.

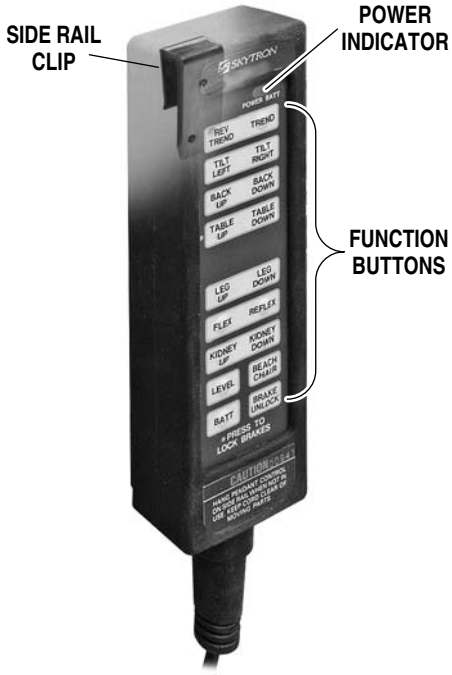


Figure 1-3. Pendant Control Unit

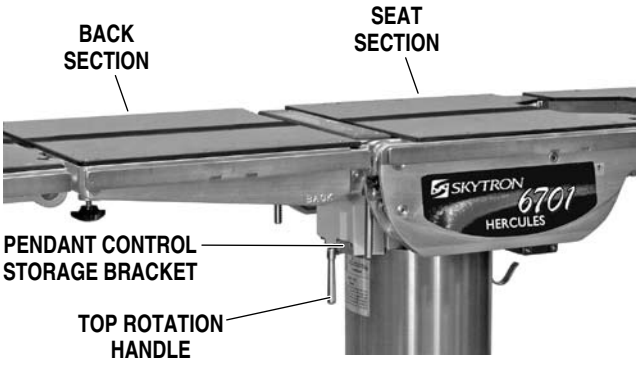


Figure 1-4. Pendant Control Storage Bracket

The function push buttons are identified with abbreviated descriptions for all functions. See figure 1-5. When illuminated the Trendelenburg and table up buttons are red, the remaining buttons are all green.

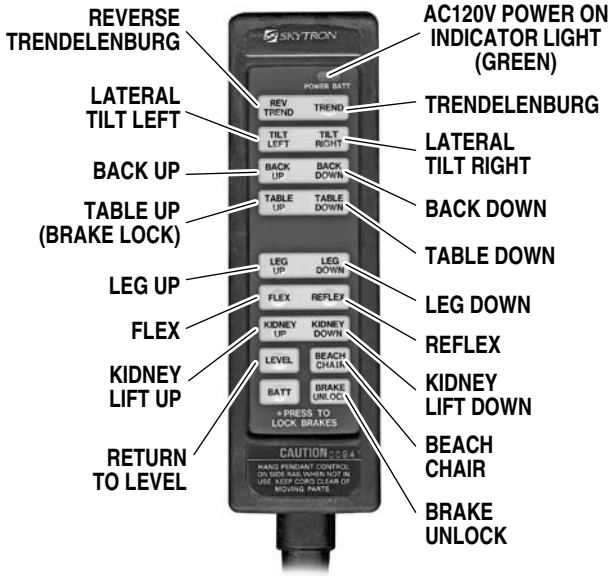


Figure 1-5. Function Buttons

1-4. Floor Lock/Brake System

The floor lock/brake system consists of four self-leveling, hydraulic brake cylinders which raise and support the table base off from the casters. Press the TABLE UP button on the pendant control to set the table's brakes. An electronic timer will activate the brake system until the brakes are completely set, approximately 8-10 seconds.

NOTE

Activating any function button will activate the brake system. Using the TABLE UP function to set the brakes provides a visual assurance that the brakes are locked without altering the table position, except when emergency brake is released.

2-1. Electrical Power

The 6701 table will operate on either 120 VAC or battery power.

WARNING

Prior to operating the table, observe all table caution labels and review the SPECIAL USER ATTENTION section in the front of this manual.

WARNING

Possible explosion hazard exists if table is used in the presence of FLAMMABLE ANESTHETICS.

NOTE

An equalization terminal is located under the main power panel. This is provided as an alternate pathway to reduce the risk of static shock hazards. Always follow recommended grounding procedures to ensure pattient and staff safety.

2-2. AC 120V Operation

Use the following procedures to operate the table on 120 VAC power.

a. Make sure the Power cord is securely attached to the table. To install the power cord, align the cord connector with the base connector, insert the cord and twist clockwise to lock the cord into the connector. See figure 2-1. Plug the cord into a properly grounded, Hospital Grade, 120 VAC outlet. Make sure the power cord is routed to the outlet to prevent it from being in the way of operating personnel.

b. Activate the POWER SWITCH located on the electrical panel. The switch will illuminate.

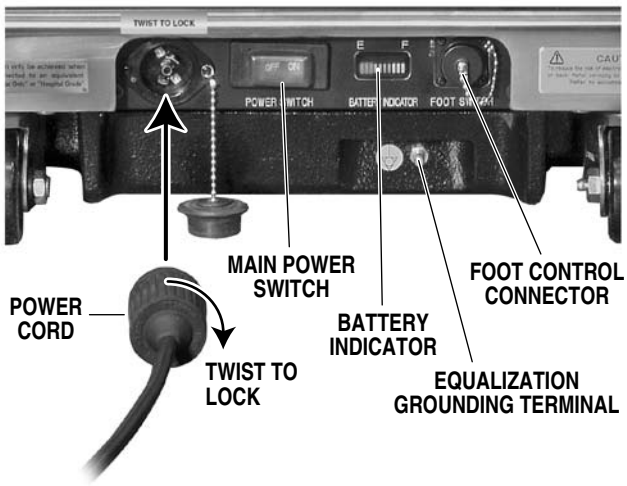


Figure 2-1. Electrical Panel

The pendant control buttons and the green AC 120V, POWER indicator light located in the upper right corner of the pendant control will illuminate. See figure 2-2.

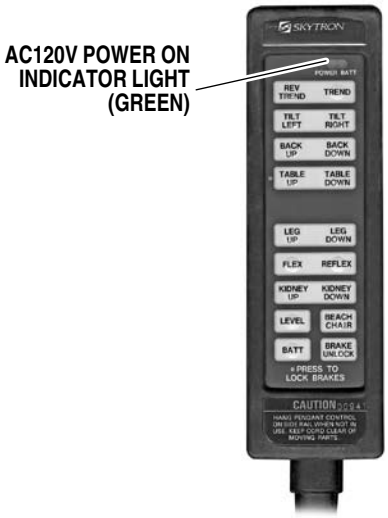


Figure 2-2. Pendant Control

c. The table is now ready for 120VAC operation.

2-3. Battery Operation

a. Make sure the Battery Indicator and Main Power Switch indicator lights, on the electrical panel, are OFF. See figure 2-2. If the indicator lights are ON, turn AC120V operation OFF with the main power switch.

NOTE

The table will operate correctly on battery power with the power cord connected to a wall outlet or disconnected.

b. Press the BATT button on the hand-held pendant control. The pendant control buttons and the red BATTERY indicator light, located in the upper right corner of the pendant control, will illuminate.

c. The table is now ready for BATTERY operation.

d. To extend the battery charge life, turn the BATTERY power OFF with the pendant control when the table is not going to be used.

NOTE

Battery Operation must be turned OFF at the pendant control. It cannot be turned OFF using the main power switch.

2-4. Automatic Shut-Off

a. To prevent unnecessary discharge of the battery, a timer is built into the battery circuit. This timer will automatically shut the battery power OFF after 1½ hours of table inactivity.

b. To turn the table ON again, press the BATT button on the pendant control, the pendant control buttons and the red indicator light will illuminate.

NOTE

Turning the Main Power Switch ON will change the table operation to 120 VAC power.

2-5. Charging the Battery

Batteries should be charged:

- When the table is placed into initial service
- As indicated by Battery Indicator
- Every week under normal service conditions

a. Battery Indicator The Battery Indicator consists of ten lighted bars, 3 red, 4 yellow and 3 green. See figure 2-3. Each bar represents a percentage of the battery charge condition. When all ten bars are illuminated, the batteries are fully charged. The following list shows the battery charge level as indicated by the lighted bars;

3 green	100% -Fully charged
2 green	89%
1 green	78%
4 yellow	67%
3 yellow	56%
2 yellow	45% -Needs Charging (BATT indicator on pendant will flash)
1 yellow	34% -Needs Charging
3 red	23% -Needs Charging (poor performance)
2 red	12% -Needs Charging (intermittent performance)
1 red	1% -Needs Charging (inoperable)

During charging, the bars will light in sequence to the respective charge level, turn off and light in sequence again.

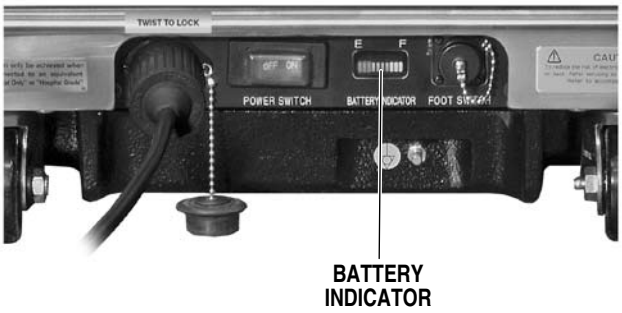


Figure 2-3. Battery Indicator

b. If the battery needs to be charged when operating the table on battery power, the red indicator light on the pendant control will begin to blink.

NOTE

When the red light starts to blink (indicating low power in battery) the table will operate for approximately 5 continuous minutes, typically long enough to use the table for the rest of the day.

NOTE

The charging system operates ONLY when the table is in AC120V operation mode.

c. To recharge the battery, make sure the power cord is connected, plugged into a 120VAC wall outlet and the main POWER SWITCH - ON.

NOTE

The table can be operated on 120VAC power while the battery is being recharged.

d. A full battery charge will last approximately 2 weeks under normal operating conditions. However, it is recommended to charge the batteries at the end of each week to establish a normal routine protocol. Lead acid batteries last longer if they are not permitted to fully discharge. The table features (2) 12 volt, sealed, lead acid batteries which require no manual maintenance. Lead acid gel batteries, under a proper charging program, feature an approximate normal life of 4 years.

NOTE

If the table is stored for a period greater than 6 months, the batteries should be removed and stored in a dry, clean condition at a storage temperature of 68° F (20° C). Batteries should be recharged every 6 months of product storage.

2-6. Positioning Functions

The hand-held pendant control (figure 2-4) activates the following table functions:

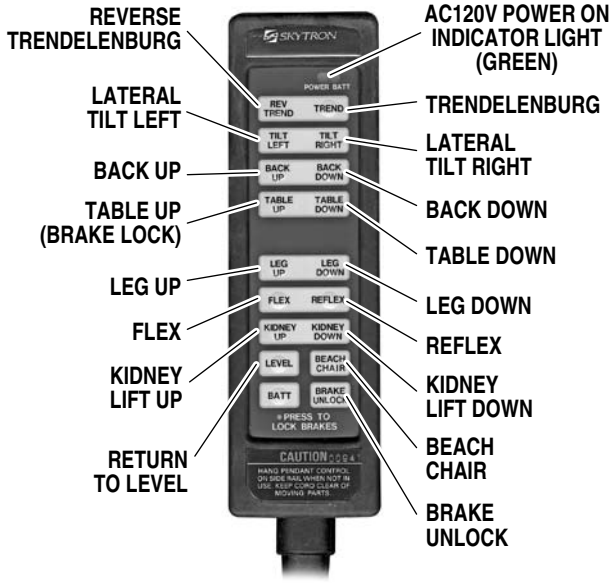


Figure 2-4. Pendant Control Function Buttons

a. Floor Lock/Brake System. To activate the brakes without affecting table positioning, press the TABLE UP button. See figure 2-5. The elevation cylinder will not function until the brakes are completely extended.

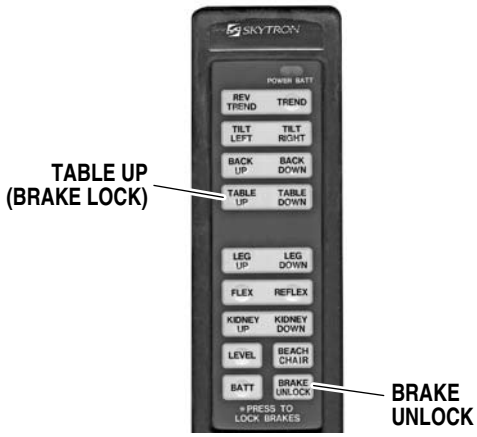


Figure 2-5. Brake System Activation

Press the BRAKE UNLOCK button on the pendant control to release the four self-leveling brake feet in order to move the table. See figure 2-5. The brake delay circuit automatically retracts the brake system. It takes approximately 7-8 seconds to totally release the system.

WARNING

•Do Not unlock brakes when patient is on the table. An uneven patient weight load may cause instability.

•If circumstances demand table brakes to be unlocked, the patient must be centered and evenly distributed on the table top (i.e. supine or prone position) with the table lowered to its lowest height position. The maximum patient weight should not exceed 500 pounds. Table top rotation must be in normal orientation, that is, the back section over the long end of the table. Patient's head must be on the head section. Head section must be attached in its normal orientation to the table's back section.

•Prior to unlocking brakes, check for obstructions on the floor that might prevent the table from moving smoothly to new location. Relock the brakes immediately once the final position is reached and before commencing surgery. Table brakes should remain locked at all times if patient weight exceeds 500 pounds.

NOTE

With an evenly distributed patient weight load, all table positioning functions will operate smoothly and quietly with a patient weight of up to 1,000 pounds.

b. Trendelenburg. To place the table in a Trendelenburg (head down) position, press the TREND button (figure 2-6). To place the table in a reverse Trendelenburg (head up) position, press the REV TREND button. Trendelenburg positioning of up to 30° may be obtained if lateral tilt positioning is less than 20°.

NOTE

To prevent table damage, a safety interlock limits Trendelenburg positioning to 20° if lateral tilt positioning exceeds 20°. An audible alarm will sound.

WARNING

To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg positioning.

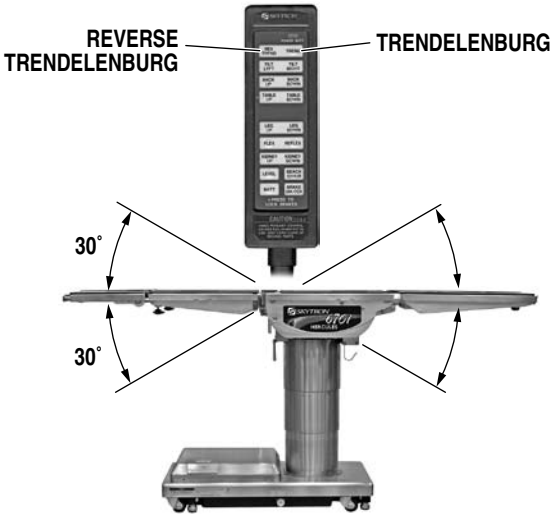


Figure 2-6. Trendelenburg Positioning

c. Lateral Tilt. To achieve lateral tilt right (as viewed from the head end of the table), press the TILT RIGHT button (figure 2-7). To achieve lateral tilt left, press the TILT LEFT button. Tilt of up to 30° may be obtained if Trendelenburg positioning is less than 20°.

NOTE

To prevent table damage, a safety interlock limits lateral tilt positioning to 20° if Trendelenburg positioning exceeds 20°. An audible alarm will sound.

WARNING

To maximize patient safety, utilize proper restraint methods during extreme lateral tilt positioning.

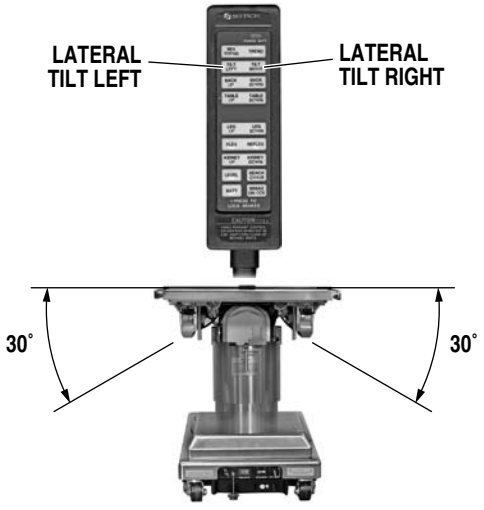


Figure 2-7. Lateral Tilt Positioning

d. Back Section. To raise the back section, press the BACK UP button (figure 2-8). The back section will raise up to 90° above horizontal. To lower the back section, press the BACK DOWN button. The back section will go down to 40° below horizontal.

NOTE

To prevent damage to the kidney lift, a safety interlock prevents the back section from going above horizontal if the kidney lift is not all the way down. If the kidney lift is raised, an audible alarm will sound when the BACK UP button is pressed.

NOTE

If back section is below horizontal, BACK UP function is limited to 800 pound patient weight.

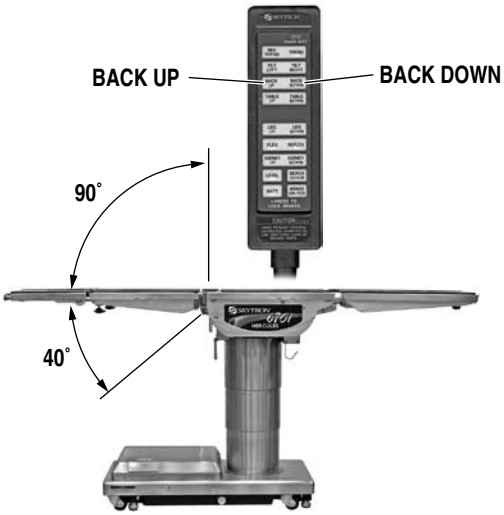


Figure 2-8. Back Section Positioning

e. Elevation. To raise table top, press the TABLE UP button (figure 2-9). The table will lift a patient weight of 1,200 pounds up to a maximum height of 41" (45" with X-Ray top and 2" pad). To lower the table top, press the TABLE DOWN button. The table top will go down to a minimum height of 23".

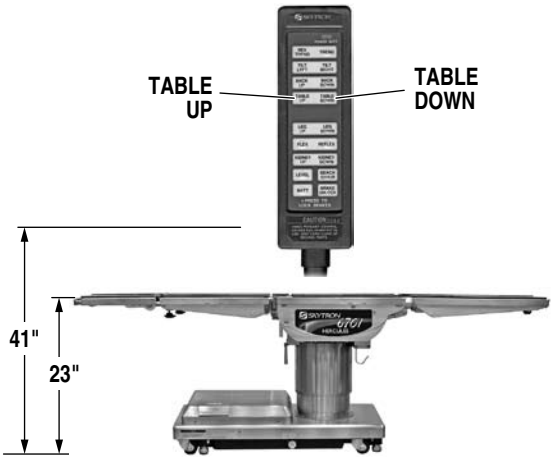


Figure 2-9. Elevation Function

f. Leg Section. To lower the leg section, press the LEG DOWN button (figure 2-10). The leg section will go down to 100° below horizontal. To raise the leg section, press the LEG UP button. The leg section will go up to 20° above horizontal.

WARNING

The Leg section may hit the table base or the floor if both the leg and elevation systems are placed in their full down position.

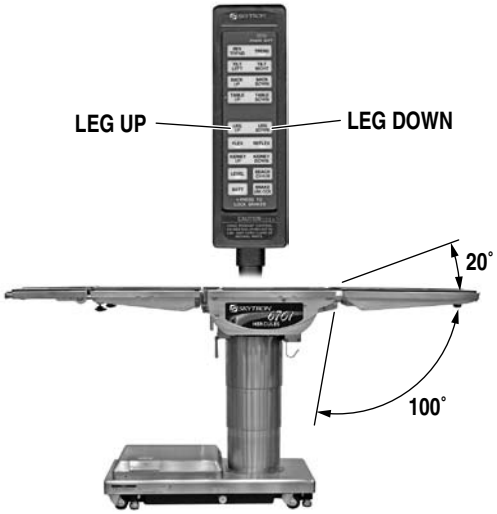


Figure 2-10. Leg Section Positioning

g. Flex Positioning. To place the table top in a flex position from horizontal, press the FLEX button (figure 2-11). To return the table top to a horizontal position or into a reflex position, press the LEVEL or REFLEX button.

NOTE

When REFLEX button is activated, if Kidney Bridge is up, the back section will not go above horizontal.

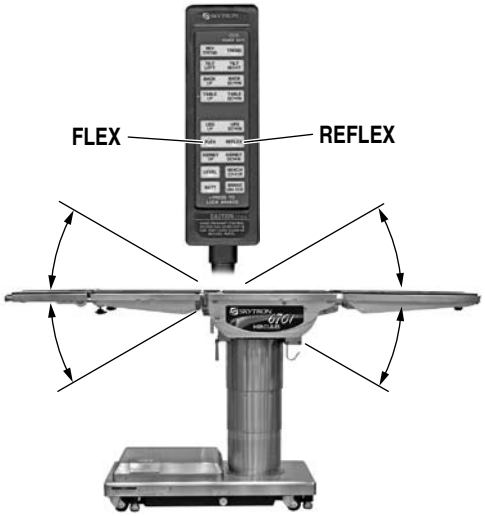


Figure 2-11. Flex/Reflex Positioning

h. Kidney Lift. To raise the built-in kidney lift, press the KIDNEY UP button (figure 2-12). Up to 6 inches of lift can be achieved. Press the KIDNEY DOWN button to lower the kidney lift.

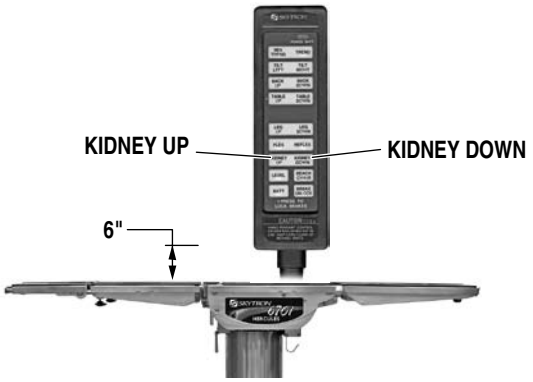


Figure 2-12. Kidney Lift Positioning

NOTE

To prevent damage to the kidney lift, a safety interlock prevents the kidney lift from going up if the back section is raised above horizontal. An audible alarm will sound .

i. Return To Level. To return the table top to a level position, press the LEVEL button (figure 2-13).

NOTE

Elevation and brake system functions are not affected by the return to level function.

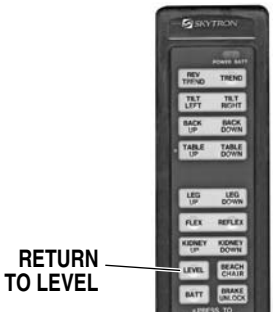


Figure 2-13. Return To Level

j. Beach Chair. To place the top in the beach chair position from a level position, press the BEACH CHAIR button (figure 2-14). The back section will raise, the leg section will lower and the Trendelenburg positioning will function simultaneously. The functions will stop when Trendelenburg reaches it limit.

Figure 2-14. Beach Chair Positioning

2-7. Emergency Back-up Controls

a. The emergency back-up control switches are located under the access door on the service access cover in the table base. See figure 2-15.

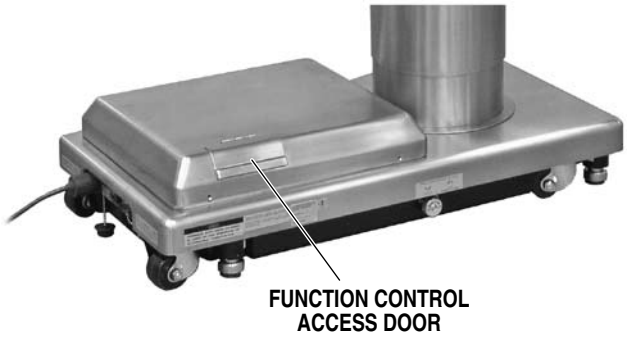


Figure 2-15. Emergency Controls Location

b. In the event of either a power failure or a problem with the hand-held pendant control, the table can be operated using the emergency back-up switches. Simply push the desired emergency switch in the appropriate direction to operate the table functions. See figure 2-16.

CAUTION

The Back Section/Kidney Lift safety interlock is not operational when the emergency back-up control switches are used.

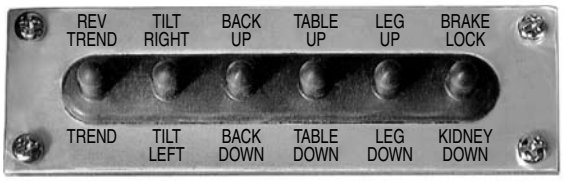


Figure 2-16. Emergency Back-Up Controls

CAUTION

The EMERGENCY BRAKE LOCK switch does not activate the brake system timer. The switch must be held until the brakes are completely locked, approximately 10 seconds.

NOTE

The emergency back-up control switches will function when the table is operating on 120VAC power, battery power, or turned off.

c. Switches are provided for Trendelenburg, lateral tilt, back section, elevation, leg section, kidney down and brake lock. These switches are spring-loaded so they return to the neutral or center position when released.

2-8. Emergency Brake Release.

In case of a power failure or an electrical problem within the table, the emergency brake release system can be used to move the table. The control knob for this function is located on the side of the table base and is identified by an EMERGENCY BRAKE RELEASE label. Turn the knob clockwise to release the brakes. See figure 2-17.

WARNING

•Do Not unlock brakes when patient is on the table. An uneven patient weight load may cause instability.

•If circumstances demand table brakes to be unlocked, the patient must be centered and evenly distributed on the table top (i.e. supine or prone position) with the table lowered to its lowest height position. The maximum patient weight should not exceed 500 pounds. Table top rotation must be in normal orientation, that is, the back section over the long end of the table. Patient's head must be on the head section. Head section must be attached in its normal orientation to the table's back section.

•Prior to unlocking brakes, check for obstructions on the floor that might prevent the table from moving smoothly to new location. Relock the brakes immediately once the final position is reached and before commencing surgery. Table brakes should remain locked at all times if patient weight exceeds 500 pounds.

Figure 2-17. Emergency Brake Release

NOTE

•The Emergency Brake Release Valve must be closed and tightened (counter-clockwise) before activating any hydraulic function.

•If the Emergency Brake Release Valve has been operated, the BRAKE UNLOCK button on the pendant control will have to be pressed before brakes will lock again.

2-9. Head Section

a. A quick release positioning bar located under and to the front of the head section (figure 2-18) is used to raise or lower the head section. Pull the release bar toward the head end to allow the section to pivot up or down. Positioning from 60° above horizontal to 90° below horizontal in 15° increments is available. Release the bar to lock the head section in position.

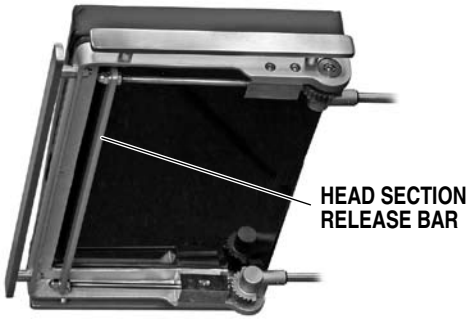


Figure 2-18. Head Section Adjustment

b. By loosening two locking knobs beneath the back section, an additional 1.5" of longitudinal adjustment can be achieved. If desired, the head section may be removed by loosening the locking knobs and pulling it straight out of the back section.

The 6701 Hercules Table has the capability of attaching the head section to the leg section for use as a foot extension ONLY. Do Not reverse the patient on the table without first consulting with SKYTRON.

Two locking knobs are located on the inside of the leg section for securing the head section. See figure 2-19.

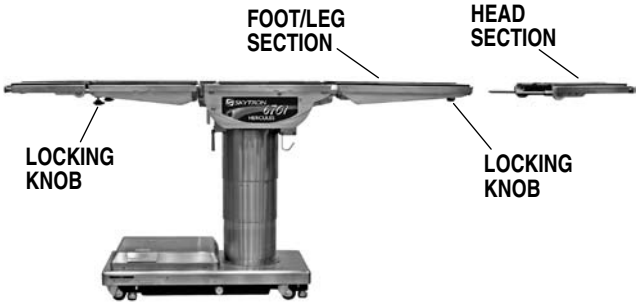


Figure 2-19. Repositioning Head Section (for use as a Foot Extension)

2-10. Leg and Back Section Removal.

a. The Leg Section and the Back Section on the 6701 Hercules tables are both removable. See figure 2-20 (Leg Section shown).

b. To remove either section, level the table top, simultaneously depress both release levers and pull the section out. Press the LEG DOWN or BACK DOWN button on the pendant control to position the attachment pins down and out of the way.

NOTE

To make the Back Section easier to handle, remove the Head Section and X-ray Top prior to removing the Back Section.

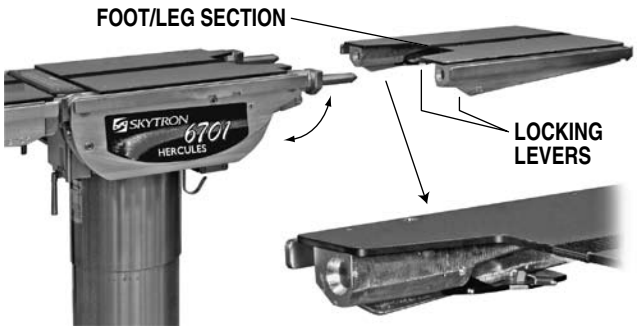


Figure 2-20. Leg Section Removal

c. To install the Leg Section, press and hold the LEG UP button until the attachment pins completely stop. Install the section on the pins. Level the table top and pull out on the section to make sure the release levers are completely locked.

d. To install the Back Section if the attachment pins are not aligned, press and hold the BACK DOWN button until the attachment pins completely stop (40° down). Press REV TREND to bring the pins up to a level position.

WARNING

Ensure that the Leg and Back sections are properly engaged and secured to pins before use to prevent injury.

NOTE

The Leg and Back sections are labeled for proper orientation. The Leg section cannot be installed on the Back section pins.

2-11. Table Top Rotation.

NOTE

Normal table top position is with the head (and back) section over the power cord end of the base.

a. The table top can be horizontally rotated 210° without having to rotate the entire table. Refer to figure 2-21. To rotate the top, turn the TOP ROTATION LOCK HANDLE counterclockwise to release, grasp the table by the head end and rotate the top counterclockwise. Lock the top in position by tightening the TOP ROTATION LOCK HANDLE clockwise.

WARNING

Always lock the table top in position after rotation. DO NOT rotate the top with an unevenly distributed patient weight load as instability may result.

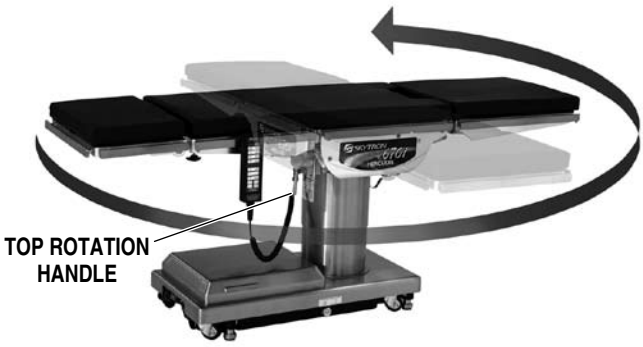


Figure 2-21. Top Rotation

b. The use of the optional support rod allows the table top to be rotated 90° from the base. See figure 2-22.

WARNING

•Make sure the TOP ROTATION LOCK HANDLE is tightened and the brakes are set before transferring the patient.

•Exercise caution with the table top rotated 90° to the base since an improperly distributed patient load may cause the table to be tipped over. A table support rod is required for 90° positioning. See figure 2-22.

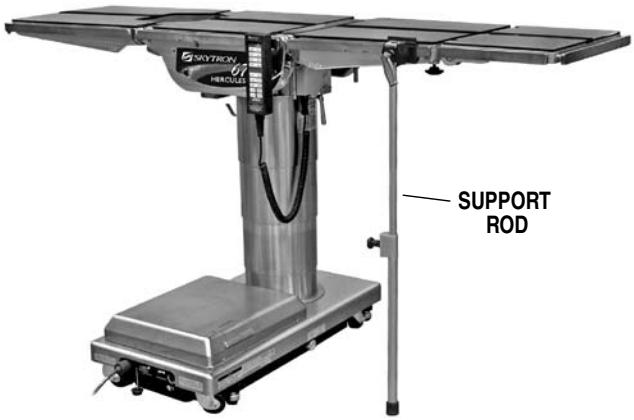


Figure 2-22. 90 Degree Top Rotation

WARNING

Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.

WARNING

When an antistatic pathway is required, the table has to be used on an antistatic floor.

WARNING

The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.

2-12. Positioning

The use of certain optional accessories available from SKYTRON further extend the positioning capabilities of the 6701 Hercules Tables. Refer to the following "Positioning Guidelines" or contact your SKYTRON representative for further details.

WARNING

Certain accessories may limit weight capacities. Check with your SKYTRON representative.

WARNING

SKYTRON Products are guaranteed for proper performance with the use of genuine SKYTRON accessories.

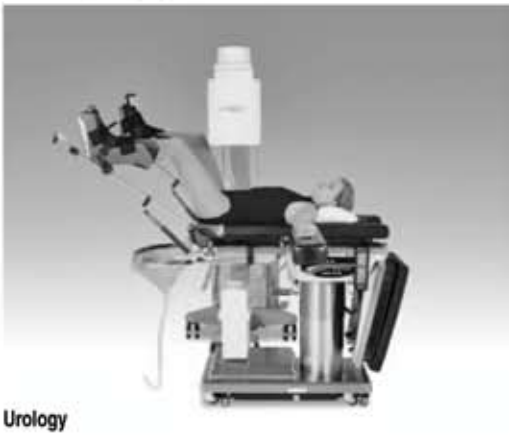
Accessories and products not furnished by SKYTRON have not been tested for proper performance and safety. Such applications or use are at the discretion of the user to ensure patient and staff safety.

6701 HERCULES General Purpose Patient Positioning Guidelines

Upper Body Imaging

Lower Body Imaging

Lap Nissen



Urology

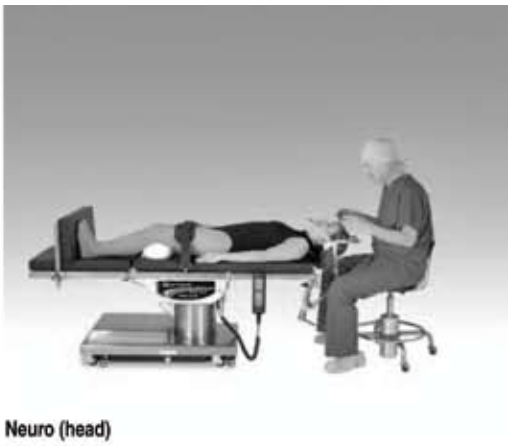
Ophthalmic/ENT

Nephrectomy

Neuro (neck)

Neuro (lumbar)

Shoulder Arthroscopy



Neuro (head)

Hip Revision

Cardiovascular

6701 HERCULES Bariatric Recommended Patient Positioning Guidelines

Abdominal

Gall Bladder

Cysto/GYN

Cardiovascular

3-1. Routine Inspections

The following inspections should be done before and after each use of the table.

a. Inspect all table pads for damage.

b. Inspect all table top sections for damage.

c. Inspect the table top assembly, all top sections and the base for stability.

d. Inspect the power cord and plug for any signs of burns or damage.

e. Test the operation of the main power switch.

f. Test all functions of the pendant control for proper table movement.

g. Inspect the table base surface and the floor for any signs of oil leaking.

CAUTION

Do not use the table if any of the inspection points fail.

3-2. Preventive Maintenance

The following preventive maintenance checks and services are recommended to ensure the service-ability and proper operation of your SKYTRON Surgical Table, and should only be performed by qualified SKYTRON trained personnel.

a. During normal cleaning, a general visual examination should be made checking for leaks, loose bolts or parts, and cracked, chipped, or missing paint. Any necessary repairs should be made.

b. Annually or as required based on usage, the following checks and services should be performed:

1. Check all hydraulic fittings, mini-valves and slave cylinders for proper operation and any signs of leaks.
2. Check the hydraulic speed controls and adjust if necessary.
3. Pressure check (with a gauge) the pressure relief valve.
4. Check all mechanical adjustments and adjust as necessary.
5. Check hydraulic fluid level.
6. Lubricate the slider assembly.
7. Check function of foot leg release levers, (release knob early models). Lubricate as necessary.

3-3. Cleaning Recommendations

WARNING

Personal injury to patient or staff may result from a lack of proper maintenance of this equipment.

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.

CAUTION

Caution should be taken when cleaning the table to prevent excessive fluid entry into electrical connectors.

The following procedures should be followed when cleaning the surgical table between cases.

Place table top in level position prior to starting cleaning procedure.

WARNING

Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.

Remove major contaminants from the table with disposable materials following appropriate biohazard waste disposal procedures.

Remove all table pads and place them on a flat surface for cleaning.

CAUTION

Thoroughly read and follow the manufacturer's directions for all cleaning fluids. DO NOT use cleaners containing phenolics.

Apply cleaning fluid liberally to top and sides of each pad and wipe with a clean lint-free cloth.

Using a clean, damp, lint-free cloth, wipe the pads to remove the cleaning fluid.

Using a clean, dry, lint-free cloth, wipe the pads to remove all moisture.

Repeat the steps to clean the bottom of the each pad.

CAUTION

When using spray cleaners DO NOT spray fluids directly into electrical receptacles or micro switches.

Repeat cleaning procedure for all table surfaces including the top, sides, elevation column, base and all accessories.

CAUTION

Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

When the cleaning procedure is complete, replace all pads and accessories as applicable.

Remove pendant control from table side rail and apply cleaning solution to the pendant control and cord.

Use a clean cloth dampened with water to remove cleaning solution.

Use another clean damp cloth to remove any remaining residue.

Install pendant control on side rail for storage when cleaning procedure is complete.

3-4. Service

Required table maintenance should be performed by SKYTRON trained maintenance personnel using SKYTRON authorized replacement parts and service techniques.

Preventive Maintenance contracts are available through your local SKYTRON representative.

To obtain SKYTRON authorized service or preventive maintenance contracts, contact your nearest SKYTRON representative listed below.

The end of the useful life for the SKYTRON Surgical Table is when this product can no longer be serviced to comply with SKYTRON standards as determined by a SKYTRON authorized service representative.

Or contact:

SKYTRON
5085 Corporate Exchange Blvd. S.E.
Grand Rapids, MI 49512
1-800-SKYTRON (1-800-759-8766)
Fax. 1-616-656-2906

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