

MIDMARK®

Installation and Operation Manual

75L Power Examination Table



Owner's Product Identification

(information that you'll need to provide for servicing - key information is highlighted)

Date of Purchase

Serial Number

Model Number

Name of Owner/Facility/Department

Telephone # of Authorized Midmark Dealer

Name of Authorized Midmark Dealer

Address of Authorized Midmark Dealer

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LIMITED WARRANTY

SCOPE OF WARRANTY

Midmark Corporation ("Midmark") warrants to the original purchaser its new Alternate Care products and components (except for components not warranted under "Exclusions") manufactured by Midmark to be free from defects in material and workmanship under normal use and service. Midmark's obligation under this warranty is limited to the repair or replacement, at Midmark's option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

APPLICABLE WARRANTY PERIOD

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

EXCLUSIONS

This warranty does not cover and Midmark shall not be liable for the following: (1) repairs and replacements because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark "Installation" and or "Installation / Operation Manual for this applicable product. (3) products considered to be of a consumable nature; (4) accessories or parts not manufactured by Midmark; (5) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

EXCLUSIVE REMEDY

Midmark's only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

NO AUTHORIZATION

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

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

SF-1487 REV. A1

OVERVIEW

Maintain this equipment with the safety of the patient, yourself, and other medical staff members in mind. To assure safer and more reliable operation, read and understand all instructions contained in this manual before installing or operating this equipment; be certain that all appropriate personnel are informed of the contents of this manual; keep this manual close to the table where it can be easily referenced. "Table" will be synonymous with the word "chair."

This manual covers instructions for the operation of the Midmark 75L Power Examination Table and is intended to be used by any medical personnel responsible for operating the table during a medical procedure or performing operator level maintenance.

The 75L Universal Examination Table is designed to reduce effort and fatigue and increase safety involved in the examination and treatment of patients. The combinations of its four powered motions, adjustable procto knee rest, stirrups, irrigation pan, and adjustable headrest provide a table which can be tailored to facilitate most examinations and treatments being performed in a doctor's office.

Using the standard Pendant hand control or the optional footswitch, the height of the table, the angle of the table top, and the upper section of the table top are easily adjusted by the use of electro-mechanical actuators. Height of the table can be adjusted from 22 to 40 inches (nominal, 56 to 102 cm). The angle of the table top may be varied from horizontal to 30 degrees up. The upper portion of the table top can be adjusted from a flat table to a full chair position.

Many features are manually controlled. The foot/leg rest support may be adjusted from flat to provide positioning for proctologic examinations. Stirrups may be extended and laterally positioned. An irrigation pan is stored beneath the seat and can be pulled out for use. The headrest is positioned via a double arm headlock and may be removed.

Other table features include a paper roll holder, accessory rails, and easily removable upholstery. Many accessories such as base rails, knee crutches, restraint straps, caster base, armboards, etc. are available to customize your 75L. **The weight limitation of this table is 325 pounds.**

SAFETY SYMBOLS



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



EQUIPMENT ALERT

Indicates an imminently or potentially hazardous situation which, if not avoided, will or may result in serious, moderate, or minor equipment damage.

NOTE

Note is used to amplify an operating procedure, practice, or condition.

INSTALLATION

UNPACKING

To avoid damage, do not use a knife or other sharp object to remove the packaging. Unbolt the table from the wooden shipping skid by removing the four (4) bolts on the underside of the base, one at each corner. A 1/2 inch open end wrench or socket is required.

After unbolting, remove the chair from the skid, lifting only at Points A, Figure 1.



CAUTION



EQUIPMENT ALERT

Do not lift at "B" points, Figure 1. Also, do not use stirrups for lifting or moving the table. Lifting or moving at these areas could result in personal injury or equipment damage.

For optimum performance allow the table to reach room temperature before operating.

LEVELING

A leveling screw (H, Figure 1) is located under each corner of the table base. By adjusting these in or out, a level, solid installation can be achieved on uneven floors.



CAUTION



EQUIPMENT ALERT

Do not use any power supply other than that listed on the serial number tag. To do otherwise risks personal injury or equipment damage.



CAUTION



EQUIPMENT ALERT

To avoid risk of personal injury, do not use this table in an explosive or oxygen-enriched atmosphere.



WARNING

Most exposed metal parts of this table are electrically grounded. When performing a cauterization or similar procedure, the patient must be insulated from the metal portions of the table with nonconductive material. Failure to do so may result in electrical shock or burns to the patient.

NOTE

Grounding reliability can only be achieved if this equipment is connected to an equivalent receptacle marked Hospital Grade (NEMA 5-15R, HOSPITAL GRADE). Reference label as shown in D, Figure 1 (115 Volt Models ONLY).

ELECTRICAL

The electrical rating for your 75L table is listed on the serial number label A, Figure 2.

On 115 VAC (nominal) models, a three-pronged, grounded, hospital grade plug (NEMA 5-15R, HOSPITAL GRADE) with power cord is permanently connected to the table. It must be inserted into a matching three-prong, GROUNDED, CORRECTLY POLARIZED, 115 volt alternating current receptacle.

On 230 VAC (nominal) models, the power cord has been supplied separately and the plug should be correct for your location. Attach the power cord to the table, inserting the appliance connector into the appliance inlet receptacle on the table located at "E", Figure 1. The power cord plug must be inserted into a matching three-prong, GROUNDED, alternating current receptacle of the listed voltage and frequency.

INSTALLING PENDANT HAND CONTROL AND OPTIONAL FOOTSWITCH

To install the Pendant hand control, remove it from its shipping location in the irrigation pan (F, Figure 1). Insert either end of the coiled cord into the receptacle (A, Figure 3). Connect the cord to the table at the control receptacle located at B, Figure 2. Hang the hand control in the hanger (Figure 2, C). The hanger may be easily moved to the opposite side of the table. Remove the bolts and nuts securing it and remount it using the predrilled holes on the opposite side. To install the optional footswitch, remove it from its packaging and insert the plug of the attached cord into the control receptacle (A, Figure 5).

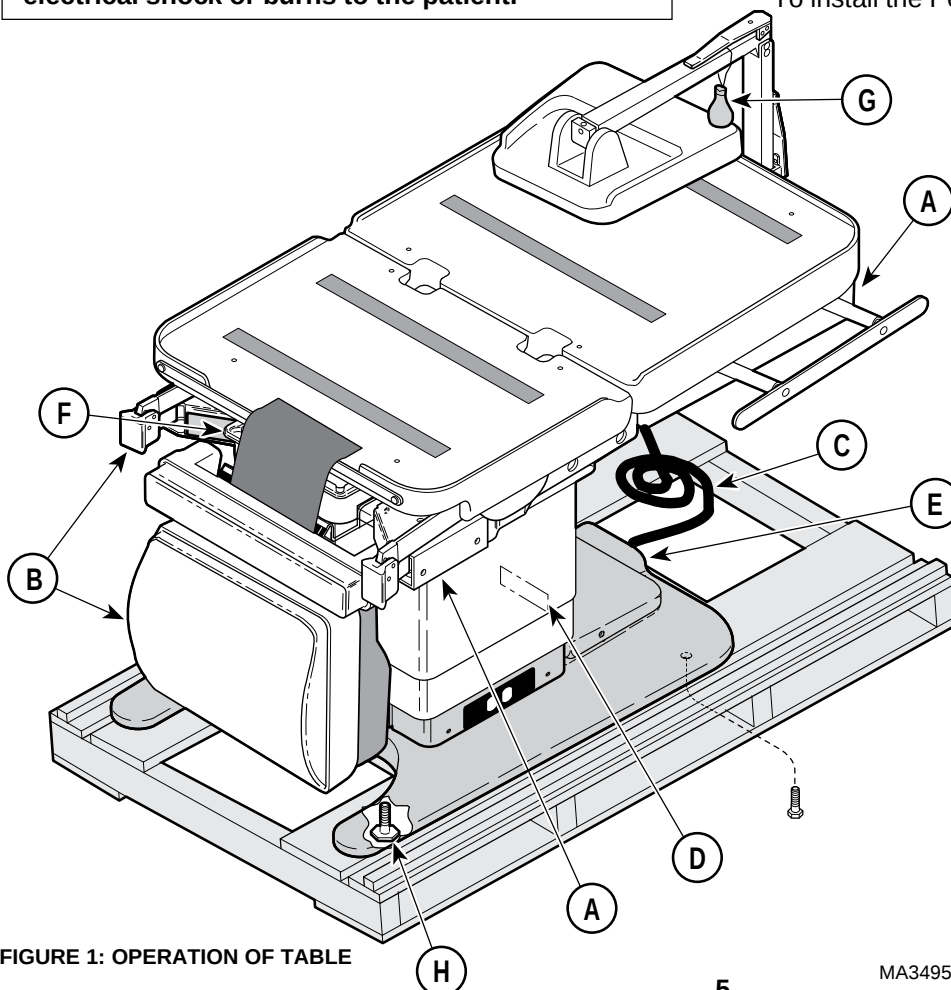


FIGURE 1: OPERATION OF TABLE

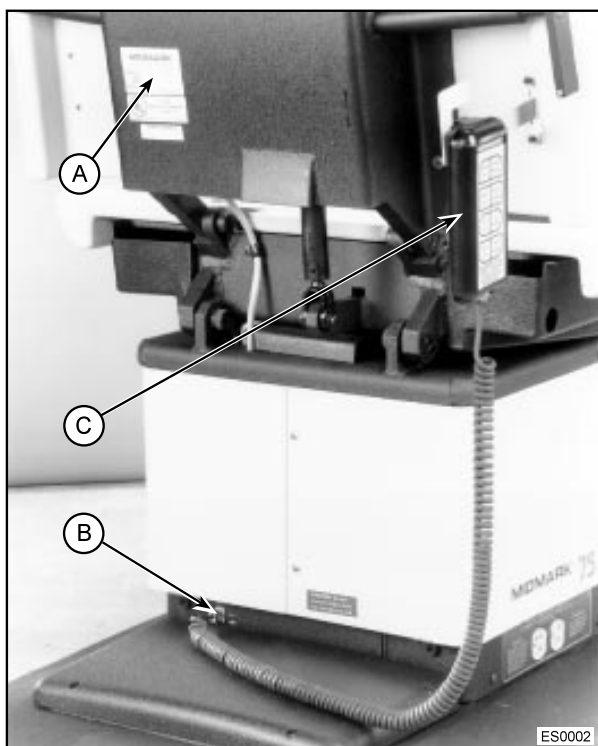


FIGURE 2

To remove any of these control plugs, depress the tab on the plug (A, Figure 3) and pull the plug from the receptacle.

If desired, the hand control and footswitch plug-in locations may be interchanged. The hand control may be plugged into receptacle (A, Figure 5) and the footswitch may be plugged into receptacle (B, Figure 2).

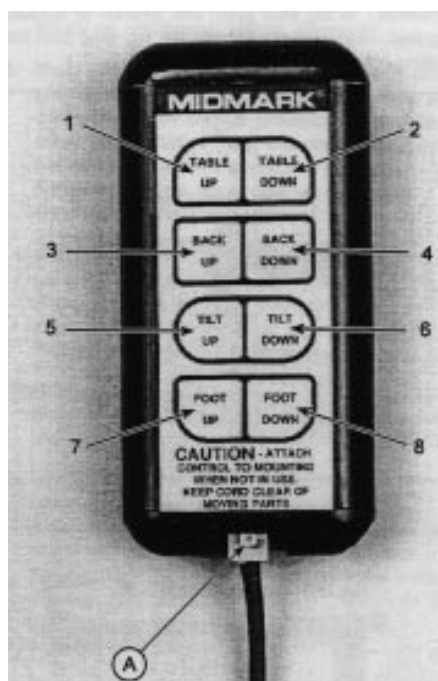


FIGURE 3

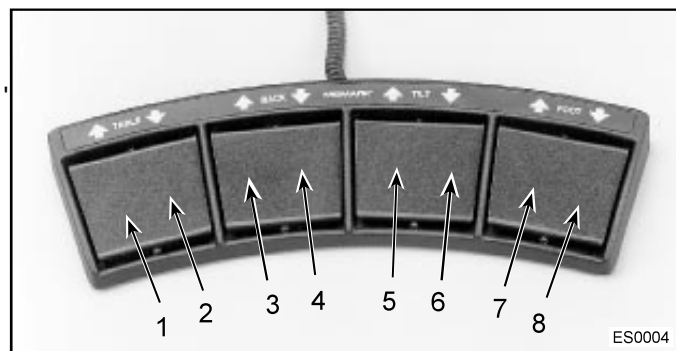


FIGURE 4

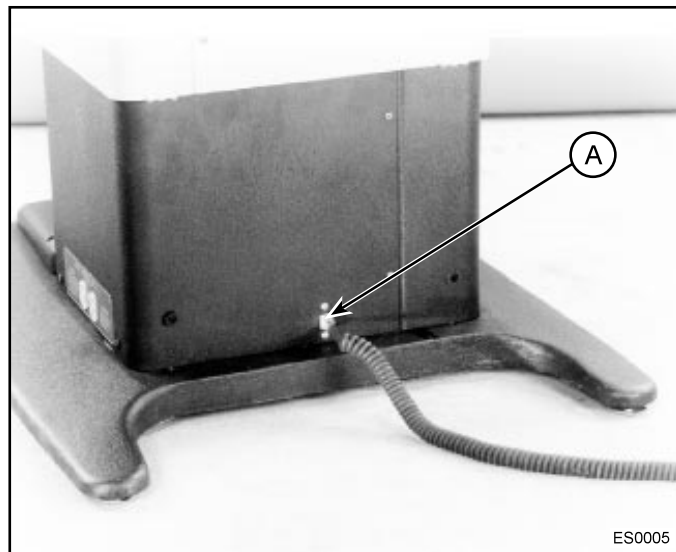


FIGURE 5

INSTALLING UPHOLSTERY

The upholstery for the 75L is supplied in a separate kit and simply attaches with Velcro to the top of the table. To avoid damaging the upholstery, do not use a knife or other sharp object to open the packaging. Remove the upholstery from the packaging and inspect it for damage. Operate the table so that the FOOT is flat, TILT is level, and the BACK is about ten (10) degrees up from horizontal (See OPERATION OF TABLE POWER FEATURES for instructions). Install the shorter end of the large seat and back upholstery into the seat section, first making sure the front corners are in alignment, then pressing the seat upholstery securely against its Velcro. Now pull up lightly on the upholstery back section to fully extend the vinyl over the gap between the seat and the back area, align the upper corners, and press the back upholstery securely against its Velcro. To install the foot board, leg, and headrest upholstery, align the appropriate piece with its matching table top section and press the upholstery piece against its Velcro.

HEADREST ADJUSTMENT TOOLS

The wrenches necessary to readjust the headlock assembly have been provided and are attached in a bag (G, Figure 1). Remove this bag of tools before using the

table and store these tools with this Installation and Operation Manual.

Need More Information? When requesting more information regarding installation, operation, and service of your Midmark 75L Power Examination Table, please reference the **MODEL and SERIAL NUMBER** as listed on the **SERIAL NUMBER LABEL, A, Figure 2**.

POWER FEATURES

For optimal table performance, allow the table to reach room temperature before operating.

NOTE

This equipment is not designed for continuous operation. If the unit is operated continually, thermal overload safety switches in the motors powering the TABLE, BACK, TILT, and FOOT functions will shut off the particular overheated motor. If normal operation ceases, stop attempting to operate that function immediately and allow it to cool for at least 10 minutes before using again. The thermal overload safety switch will automatically reset when the motor cools to a safe temperature.

The 75L motors are fused individually as well as thermally protected for safety. If operation of a function does not return after a cooling period of at least of one (1) hour, contact an authorized service center to investigate the cause of the failure. Reference the label located on the table cover (D, Figure 1).

CAUTION EQUIPMENT ALERT
Repeated overheating of the table's motors will degrade their electrical insulation. This could result in electrical shock or fire.

The 75L Power Examination Table's four powered table functions are controlled by either the Pendant Hand Control or the Optional Footswitch. Refer to Figure 3 for the Pendant Hand Control and Figure 4 for the Optional Footswitch, note the function and location:

TABLE UP (1) and DOWN (2)

BACK UP (3) and DOWN (4)

TILT UP (5) and DOWN (6)

FOOT UP (7) and DOWN (8)

PENDANT HAND CONTROL

Remove the Pendant Hand Control from its hanger (C, Figure 2). Hold it in the palm of your hand and depress and hold the desired button (1-8, Figure 3) with your thumb or your free hand until it reaches the desired position or it stops moving. Replace the Pendant Hand Control in its hanger when table positioning is completed.

FOOTSWITCH (OPTIONAL)

With a firm stance, place your foot on the desired footswitch rocker section, (1-8, Figure 4). To move a table function UP, rock your foot to the left. To move a table function DOWN, rock your foot to the right. Hold the rocker section until the desired position is achieved or it stops moving. Remove your foot from the footswitch when table positioning is completed.

CAUTION EQUIPMENT ALERT

Keep foreign objects away from the footswitch and be sure the footswitch is not positioned below the foot section or headlock arm of the table so that the pedals are not accidentally activated.

CAUTION

If the table malfunctions, immediately remove your hand or foot from the control switch, unplug the power cord from the supply receptacle, and assist the patient from the table.

CAUTION EQUIPMENT ALERT

Keep personnel and equipment clear of table before initiating power movement to avoid personal injury or equipment damage.

EQUIPMENT ALERT

The Pendant Hand Control and optional footswitch are moisture resistant and of a low power design. To eliminate shock hazards, avoid immersing in or contact with fluids which might temporarily or permanently damage the controls.

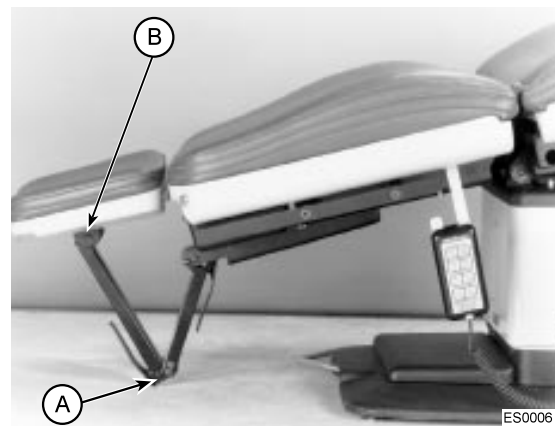


FIGURE 6

BACK SECTION - ADJUSTMENT

To adjust the table backrest from horizontal to a chair position, depress and hold the BACK UP switch (3, Figures 3 & 4) until the backrest reaches the desired angle or the chair position is achieved.

To adjust the table backrest from a chair position to horizontal, depress and hold the BACK DOWN switch (4, Figures 3 & 4) until the backrest reaches the desired position or the flat table position is achieved. The backrest may stop normally before reaching the horizontal position if the headlock arm (A, Figure 6) contacts the floor activating a safety switch which prevents further activation of the BACK DOWN, TABLE DOWN, and TILT UP functions. To continue further BACK DOWN operation, operate TILT DOWN or TABLE UP until the headlock arm is several inches above the floor.

The BACK function will automatically stop moving but the motor will not stop operating at the extreme flat and chair positions. **DO NOT** continue activating the control and operating the motor without backrest movement. The motor may overheat and premature failure of the electromechanical actuator may result.

TILT, TABLE TOP ANGLE - ADJUSTMENT

To tilt the table top, depress and hold the TILT UP switch (5, Figures 3 & 4) until the table top reaches the desired angle or the maximum tilt is achieved. The table top may stop normally before reaching the maximum tilt position if the headlock arm (A, Figure 6) contacts the floor activating a safety switch which prevents further activation of the TILT UP, TABLE DOWN, and BACK DOWN functions. To continue further TILT UP operation, operate TABLE UP or BACK UP until the headlock arm is several inches above the floor.

To move the table top toward horizontal, depress and hold the TILT DOWN switch (6, Figures 3 & 4) until the table top reaches the desired position or the horizontal position is achieved.

The TILT function will automatically stop moving but the motor will not stop operating at the extreme flat and maximum tilt positions. **DO NOT** continue activating the control and operating the motor without table top movement. The motor may overheat and premature failure of the electromechanical actuator may result.

FOOT/LEG REST SUPPORT - ADJUSTMENT

NOTE

A safety switch prevents operation of the FOOT UP only when the irrigation pan (Figure 11) is extended. Should operation of FOOT UP be impossible and FOOT DOWN be possible, check that the irrigation pan is in its fully stored position. A light clicking sound should be heard just before the pan reaches its fully stored position.

To raise the foot/leg rest support towards horizontal, depress and hold the FOOT UP switch (7, Figures 3 & 4) until the foot/leg rest support reaches the desired angle or the horizontal position is achieved.

To lower the foot/leg rest support toward vertical, depress and hold the FOOT DOWN switch (8, Figures 3 & 4) until the foot/leg rest support reaches the desired angle or the vertical position is achieved.

The FOOT function will automatically stop moving but the motor will not stop operating at the extreme horizontal and vertical positions.



EQUIPMENT ALERT

DO NOT continue activating the control and operating the motor without foot/leg rest support movement. The motor may overheat and premature failure of the electromechanical actuator may result.

PATIENT POSITIONING - MULTIPLE FUNCTION MOVEMENT

Multiple functions may be operated at the same time to speed positioning but are limited to these two groups:

TABLE UP, BACK DOWN, TILT UP, & FOOT UP

TABLE DOWN, BACK UP, TILT DOWN, & FOOT DOWN

The control switches must still be depressed and held down for movement to continue.

MANUAL FEATURES

PROCTO KNEE REST

The stored position of the procto knee rest is illustrated in Figure 7. To remove the knee rest, lift levers (A, Figure 7), on each side of the knee rest, to unlock and pull away from the table, as shown in Figure 7.

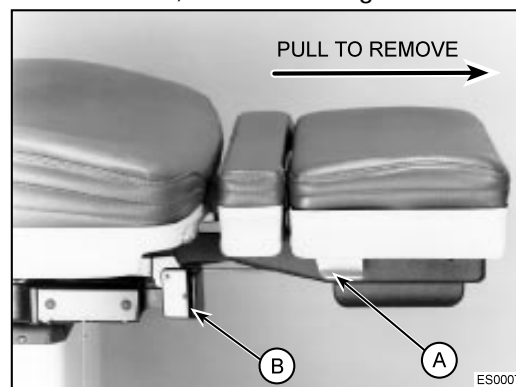


FIGURE 7

The foot/leg section provides four (4) procto knee rest positions (A, Figure 8). To install the knee rest into either of these positions, align the metal guides (A, Figure 9) with the slots (A, Figure 8) and insert until you hear or feel the mechanical locking hooks engage. Attempt to

remove the knee rest to assure it has been locked into position.

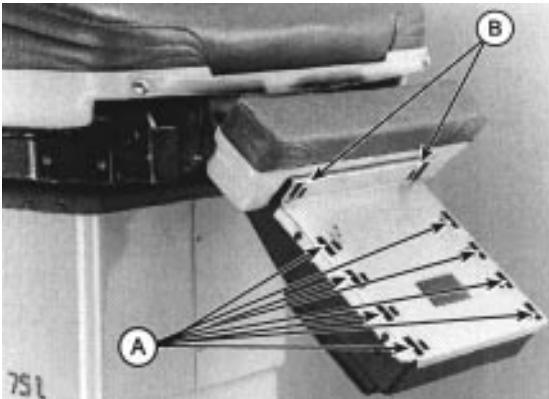


FIGURE 8

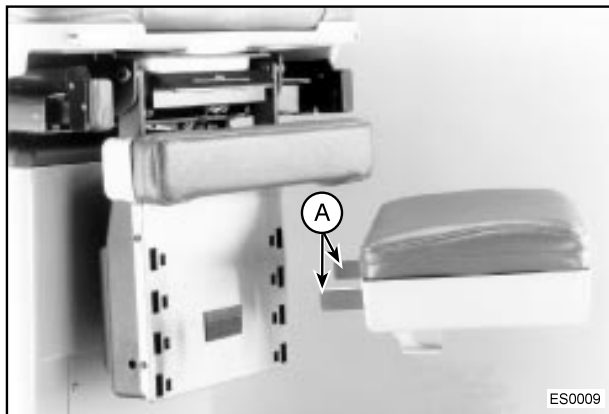


FIGURE 9

Removal of the knee rest from a procto position is the same as removal from the stored position. Lift the levers (A, Figure 7) on each side of the knee rest to unlock and pull away from the table. To return the knee rest to its stored position, align the metal guides (A, Figure 9) with the slots (B, Figure 8) and insert until you hear or feel the mechanical locking hooks engage. Attempt to remove the knee rest to assure it has been locked into position.

STIRRUPS ADJUSTMENT



CAUTION

To avoid risking injury, make sure that the stirrups' lateral locking mechanism is engaged.

To remove the stirrups from their stored position, grasp the end of the stirrup assembly (B, Figure 7) and pull straight out from the table to full extension. Unfold the stirrup to an erect position, as shown in Figure 10.

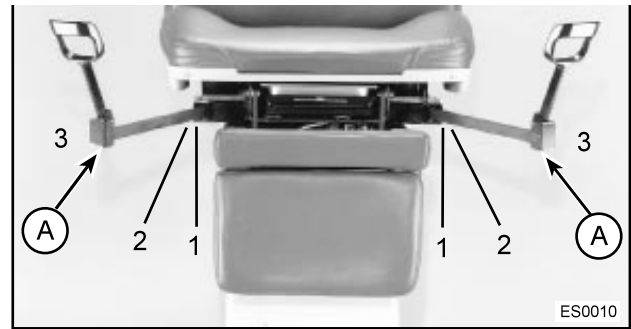


FIGURE 10

LATERAL (WIDTH) ADJUSTMENT

The 75L has three (3) lateral positions for both stirrups. To adjust lateral positioning, lift stirrup assembly at point A, Figure 10 and then rotate assembly to right or left. The stirrup mechanism will "click" into position as it is rotated.

When the desired position is attained, lower stirrup (A, Figure 10) to engage width locking mechanism. Check that the lateral (width) locking mechanism is engaged by attempting to rotate stirrup assembly without lifting at point A, Figure 10.

EXTENSION ADJUSTMENT

Stirrup extension length is adjusted by holding stirrup at point A, Figure 10 and sliding stirrup assembly in and out of table. Check that the lateral (width) locking mechanism is engaged by attempting to rotate stirrup assembly without lifting at point A, Figure 10.

STORING STIRRUPS

Extend stirrup assemblies to full extension, fold stirrups down against bar, rotate stirrups into Position #2, Figure 10, lift slightly and slide complete assembly into table.

IRRIGATION PAN

A stainless steel irrigation pan is located between the stirrups as shown in A, Figure 11. The pan assembly extends from the table by grasping and pulling the handle B, Figure 11, until it stops at its full out position. A slight increase of pull force should be felt near the end as a lock will engage.

The irrigation pan may be removed from the pan slide assembly by lifting at points C, Figure 11. To replace the pan, align and press firmly into the pan slide assembly. To retract the pan assembly, push on handle B, Figure 11, until it stops at its full in position. A slight increase of push force should be felt near the end as a lock will engage.

NOTE

A safety switch prevents operation of "FOOT UP" when the irrigation pan is extended to prevent damage to the foot/leg rest. When the irrigation pan is retracted and locked in, normal operation of "FOOT UP" should return. If operation is not restored, call a service representative.



FIGURE 11

PAPER ROLL STORAGE AND DISPENSER

Storage for two (2) standard 18 inch wide by 3 inch diameter paper rolls is provided under the upper portion of the back section, as shown in Figure 12. Access to the paper roll storage area is accomplished by sliding the holder A, Figure 12, out from under the back section toward the headlock. It is recommended to have the back section in a horizontal position. Insert the paper roll(s), drape the end of the roll nearest the headlock out of the holder, and push the holder under the back section. Remove one end of the paper tear strap B, Figure 12, and then pull the paper over the end of the back section onto the upholstery. Replace the paper tear strap to help control the paper. Pull the paper over the upholstered area of the table.

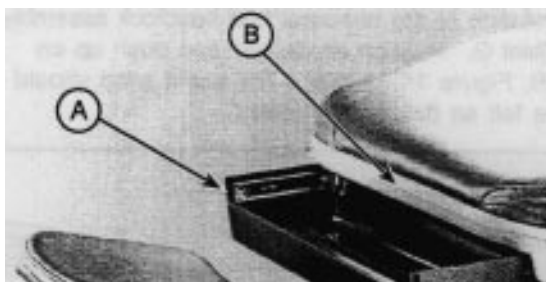


FIGURE 12

HEADREST PILLOW REMOVAL AND REINSTALLATION

The headrest pillow and upholstery (3, Figure 13) may be completely removed or changed to optional pillows to facilitate some procedures. It is secured with three retaining latches (1, Figure 13). Pull these latches away from the pivot mount (4, Figure 13) and pull up to release the headrest assembly (2, Figure 13). To reattach, align the headrest pillow with the pivot mount, push down, and push the latches toward the pivot mount.

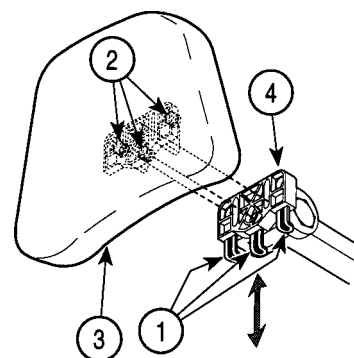


FIGURE 13

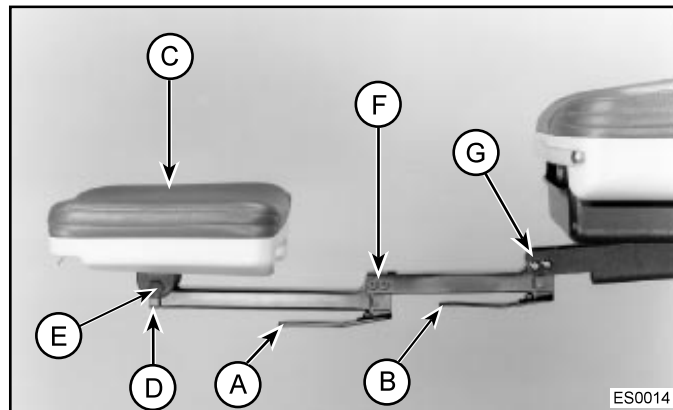


FIGURE 14

HEADREST POSITIONING

Handles A and B, Figure 14, are used to control the positioning of the headrest, locking and unlocking rotational joints at locations E, F, and G, Figure 14 of the headlock assembly. Grasping handle A, Figure 14, and pulling it downward (as shown in Figure 14) releases joints E and F, at the same time allowing the headlock pillow and the left arm (as shown in Figure 14) to be positioned as desired. To lock the pillow and left arm in position, push up on handle A, Figure 14, until a slight snap is felt as the joint locks. Joint G is released by grasping handle B, Figure 14, and pulling it downward. This allows rotation of the headrest and headlock assembly around joint G. Position as desired and push up on handle B, Figure 14, to lock. The slight snap should again be felt as the joint is locked.

HEADLOCK ADJUSTMENT SPECIFICATIONS

The factory settings of the headlock can be tested by positioning the headrest and headlock assembly, as shown in Figure 14. The headrest should support a load of at least 45 lb (static) in direction C or D. The locking handles, A and B, Figure 14, should unlock with a maximum pulling force of 17 lb and lock with a maximum pushing force of 35 lb. If holding force is below 45 lb or locking/unlocking forces higher than 35 and 17 lb, respectively, readjustment is required for safe operation.

HEADLOCK ADJUSTMENT

The necessary wrenches to adjust the headlock have been provided in a bag (G, Figure 1). Remove this bag of tools before using the table and store these tools with this Installation and Operation Manual.

To adjust the headlock forces, unlock both handles (A and B, Figure 15) and position as shown in Figure 15. Loosen the locking screw located at C, Figure 15, with a 3/32 hex (Allen) wrench. Now tighten (clockwise) the adjusting screw located at D, Figure 15 with a 3/16 hex (Allen) wrench to increase the holding force of joints E and F, Figure 14 and locking clamping forces of handle A. Loosen the locking screw located at E, Figure 15, with a 3/32 hex (Allen) wrench. Now tighten (clockwise) the adjusting screw (F, Figure 15) with a 7/16 open end wrench to increase the holding force of joint G, Figure 14 and locking clamping forces of handle B. Test these adjustments and tighten or loosen as required to meet headlock specifications. When locking force adjustment is complete, clamp the headlock and tighten both locking screws, (C and E, Figure 15) to maintain adjustment screw positions during use.

In some instances it may be necessary to adjust the handle stop position(s). Proper adjustment of the handle stops (G, Figure 15) is for the handle to stop suddenly just after the maximum clamping force is felt and the handle is being pulled down by the headlock mechanism (this is commonly known as "going over center").

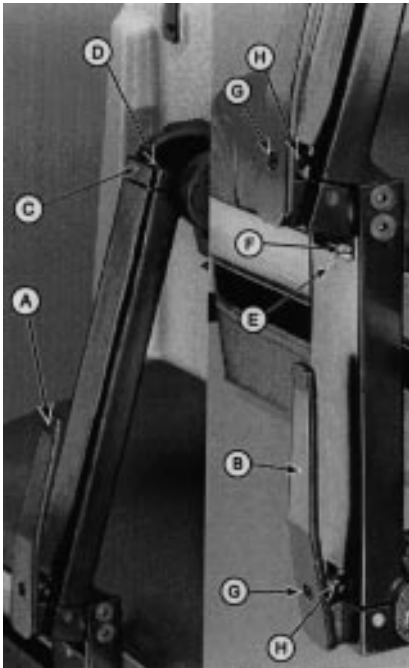


FIGURE 15

This will allow space for the operator to grasp the handle for unlocking and prevent pinching of fingers when locking as well as provide better headlock performance. To adjust the stops G, hold the stop screw with a 1/8 hex (Allen) wrench, loosen its locking nut "H", Figure 15, with a 7/16 open end wrench, and turn the stop screw

clockwise to increase the handle clearance. Once the stop has been set, hold the stop screw with a 1/8 hex (Allen) wrench and tighten its locking nut with a 7/16 open end wrench. A light or spray oil may be applied to the rotational joints E, F, and G, Figure 14 to improve and ease headlock operation. Recheck the headlock to the factory settings to verify proper operation.

ACCESSORY RAILS

A 3/8 inch wide by 1 inch tall (cross section) accessory rail is located along each side of the seat section for mounting armboards, siderails, and many other common accessories.

CARE AND MAINTENANCE

CARE OF UPHOLSTERY

The upholstery material used to cover the top of the table is resistant to most medicinal-type stains but may be damaged by solvents and dyes. Regular care should be maintained by daily wiping with a damp cloth or sponge and periodic cleaning with a mild soap and water solution.

Any fluid spilled on the upholstery or plastic cover should be removed as quickly as possible. In the case of stain, attempt to remove it with soap and water.

CARE OF TABLE

Clean the table weekly, wiping the painted metal and plastic surfaces with a clean, soft cloth. If desired, mild cleaners may be used. Periodic applications of common furniture wax will ease cleaning and help to maintain the finished luster of the table.

CARE OF MOVING PARTS

Moving parts such as hinge and pivot pins, stirrup index button, pan slides, and other moving parts should be oiled occasionally with a light machine or spray oil to maintain quiet, smooth, dependable operation. Stirrup bars and accessory rails can be lubricated using common household furniture wax.

MAINTENANCE



CAUTION



EQUIPMENT ALERT

Failure to perform periodic inspections could result in personal injury or equipment damage.

Little other routine maintenance is required. A periodic inspection of the power cord is recommended to make sure it is free of cuts, damage, and clear of moving parts. Due to the mechanical, electrical nature of this equipment periodic inspections at six (6) month intervals by qualified service personnel are recommended.

MIDMARK®

Midmark Corporation, Versailles, Ohio 45380 U.S.A.
937-526-3662 TELEX 288007 FAX 937-526-5542