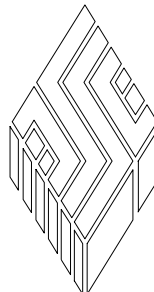




## Imperial Hydraulic Table Base

- *Foot-operated Hydraulic Lifting Action*
- *Manual Tilt Mechanism*
- *Full 360-degree Rotation*
- *Stainless Steel Strength and Durability*

New Model Number: 18150-00-EAEDCK  
Former Model Number: 202360



# SSCI

Wheeling, IL 800 323 7366

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Wheeling, Illinois 60090, USA

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# Chapter 1 - General Information



## Introduction

SSCI's Imperial Hydraulic Table Base is the ideal mount for your operating table. It provides smooth, quiet, foot-operated hydraulic lifting action and a manual tilting top. Convenient pump-action foot pedals activate the hydraulic lifting mechanism to smoothly raise and lower the table.

The top can be easily tilted to any position from horizontal to approximately 60°, and can be rotated a full 360°. The mounting bracket/tilt mechanism is made entirely of stainless steel for unsurpassed strength and durability. The weighted, stainless steel base provides superior stability and gives you a handy footrest for maximum comfort and reduced back strain.

Four adjustable leveler legs ensure the base is level and rock-steady at all times. The base is the perfect companion for the company's flat-top and V-style operating tables.

## About this Manual

Every attempt has been made to insure that the information in this manual is correct and complete. SSCI, however, always welcomes our customer's suggestions for improvements to our products and associated publications.

## Information and Safety Notices

Throughout this manual you will find text under the headings **Note**, **CAUTION:** and **WARNING:**.

### Notes

Under the **Note:** headings, you will be given additional information pertinent to the subject discussed in that paragraph or procedural step.

#### Example:

Level the table base to ensure that fluids on the table top drain correctly to the drain hole. **Note:** Level the table base **ONLY** at the location where it will be used.

### CAUTIONS

Under the **CAUTION:** heading, you will be alerted to potentially hazardous conditions which, if ignored or mishandled, could result in minor injury to yourself, or minor damage to the equipment.

#### Example:

**CAUTION:** Unpacking, installing and setting up the hydraulic table base and table top is not difficult. However, the units are heavy and we recommend that these operations be done by at least two people.

### WARNINGS

Under the **WARNING:** headings, you will be alerted to potentially hazardous conditions which, if ignored or mishandled, could result in major injury to yourself, or severe damage to the equipment.

#### Example:

**WARNING:** The hydraulic table base is designed to carry weights up to 300-pounds (136kg). Attempting to lift weights greater than this can damage the hydraulic lifting mechanism.



## Care and Cleaning of Stainless Steel

### Introduction

Stainless steel is steel alloyed with chromium to make it highly resistant to stain, rust and corrosion. **Note:** This does NOT mean that stainless steel will *never* rust or corrode. Science has not yet developed a steel which is completely stainless or corrosion PROOF.

The type of stainless steel and finish selected by SSCI for the hydraulic table base is the best available for the intended use.

### Cleaning and Cleansers

The basic rule of thumb is to use the mildest cleaning agent that will do the job effectively. After cleaning, always rinse thoroughly with clear water, and dry completely. Frequent cleaning will prolong the service life of stainless steel equipment and will help maintain a bright, pleasing appearance. **Note:** NEVER power-wash the table base.

Ordinary deposits of waste and fluids can usually be removed with soap and water. More stubborn deposits or tightly adhering debris may require harder scrubbing and possibly the use of commercial cleaning products acceptable for use on metal surfaces. When using any cleaning agent, rub in the direction of the polish lines or “grain” of the metal. For high luster finishes, clean soft cloths or pads should be used.

If especially rough cleaning is necessary, use “stainless steel” wool, nylon or plastic scrubbers. Test these scrubbers in an inconspicuous area first to be sure they do not mar or scratch the stainless steel finish.

Minor scale build-up and some hard water spotting may be removed by washing with vinegar, followed by a neutralizing rinse with clear water and a thorough drying with a soft cloth. For heavy deposits of scale, 5% oxalic acid (use warm), 5-15% sulfamic acid, or 5-10% phosphoric acid may be used. Always follow with a neutralizing rinse of clean water and a thorough drying.

## **Deodorizing Agents, Disinfectants and Sanitizers**

The large selection of brands and combinations of chemicals available for deodorizing, disinfecting and sanitizing is staggering. Select one or more agents for use in your facility only after weighing all the benefits claimed by each product. Often this choice is made without adequate consideration of the effects these agents may produce on equipment or furnishings.

**CAUTION:** Before selecting a chemical to employ in your facility, review label statements regarding use with metals (stainless steel). Always consult the chemical supplier if there are any doubts.

Avoid prolonged use of chlorides (such as chlorine bleach), bromides, iodides and thiocyanates on stainless steel surfaces as these chemicals will cause pitting, corrosion and metal discoloration. Allowing salty solutions to evaporate and dry on stainless steel may also contribute to corrosive conditions.

In summary, select chemical deodorizers, disinfectants and/or sanitizers only after weighing all possible benefits and known adverse effects.

## **Effect on Warranty**

**The warranty for this product is void if the care and cleaning instructions provided in this manual are not followed.**

## **Safety**

**WARNING:** The Imperial Hydraulic Table Base is designed to carry weights up to 300-pounds (136kg). Attempting to lift weights greater than this can damage the hydraulic lifting mechanism. If the lifting mechanism fails, the table can fall suddenly creating a hazardous situation.

## **Cleaning Requirements**

Clean the hydraulic table base exactly in accordance with the cleaning instructions provided in *Chapter 3* of this manual. *Failure to follow these instructions can void your warranty.*

## SSCI Contact Information

SSCI Customer Service can be contacted via mail, telephone or fax. The department is available from 8:30am to 5:00pm, Central Time, Monday through Friday. Closed holidays.

**Address:** Suburban Surgical Co., Inc.  
275 Twelfth Street  
Wheeling, Illinois 60090

**Telephone:** Illinois - (847) 537-9320, ext. 3518  
Toll Free - 1-800-323-7366

**Fax:** (847) 537-9061

**Web:** [www.suburbansurgical.com](http://www.suburbansurgical.com)

## Warranty

Suburban Surgical Company, Inc. warrants the original purchaser that our products are of the highest standards in material and workmanship. Our stainless steel components are guaranteed to last a lifetime assuming they are used as intended, properly maintained and cared for. Mechanical, electrical, electronic, hydraulic, and any product's devices carry a one year warranty.

Items purchased by Suburban Surgical Company, Inc. from other manufacturers and incorporated into our equipment are covered by the respective manufacturer's warranties.

Warranties will not apply if it is determined by Suburban Surgical Company, Inc. that the equipment became defective due to an accident, misuse, abuse, improper maintenance or alteration. Warranty freight charges are covered for the first year only.

### Notes:

[illegible]

## Chapter 2 - Installation & Setup

### Unpacking and Inspection

**CAUTION:** Unpacking, installing and setting up the hydraulic table base and table top is not difficult. The units are heavy, however, and we recommend that these operations be done by at least two people.

If the shipping container appears damaged in any way, contact the shipping company immediately. Save all damaged packing materials to assist in proving liability for damage.

Carefully inspect your Imperial Hydraulic Table Base while you unpack it. If damage is noted, or if parts appear to be missing, call the SSCI Customer Service Department at 1-800-323-7366.

### Parts Included

In addition to the hydraulic base, a set of four leveler leg caps, P/N 853007, are enclosed in a plastic bag located under the tilt frame.

### Installation and Setup

After placing the hydraulic base in its intended operating location, installation and setup involves just two simple steps:

1. Leveling the base
2. Mounting the table top:  
For flat table tops, refer to *Page 9*.  
For V-Style table tops, refer to *Page 13*.

### Tools Required

To level the base and mount the table top, you will need:

- 9/16-in. wrench
- 7/8-in. wrench
- Two 1/2-in. wrenches (for flat table tops, at least one wrench should be open-end)
- Carpenter's level

## Leveling the Base

Perform the following procedure to level the table base and ensure that fluids on the table top drain correctly to the drain hole.

**Note:** Level the table base **ONLY** at the location where it will be used. Due to differing floor conditions, leveling procedures carried out at one place may be totally invalid at a different location. If the table base is ever moved to another location, the leveling procedure should be redone.

1. Place a carpenter's level length-wise on the tilt frame and check the level of the base, right-to-left (Figure 1).
2. Place the level cross-wise on the tilt frame and check the level of the base front-to-rear (Figure 2).

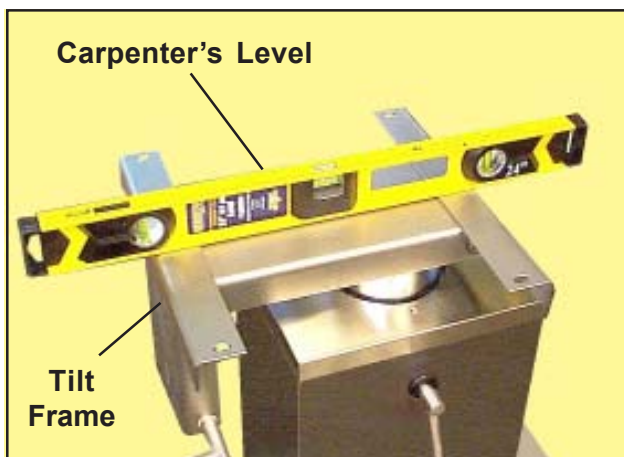


Figure 1. Checking Right-to-Left Level

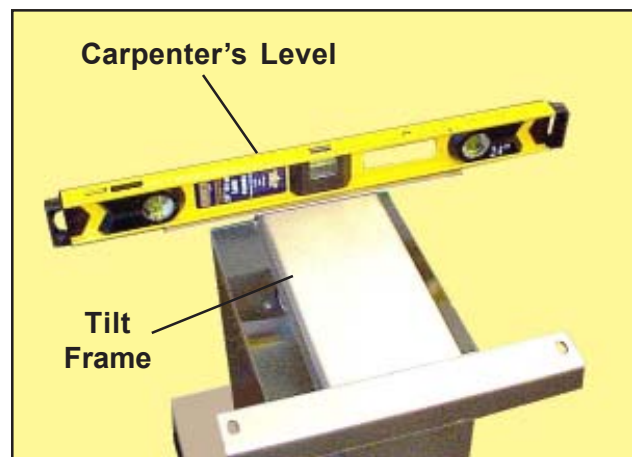
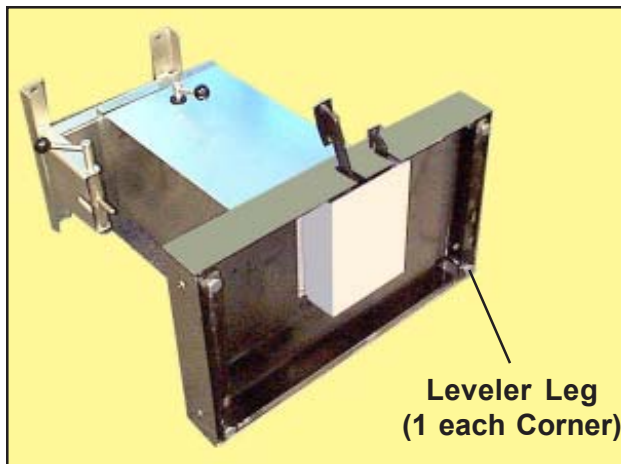


Figure 2. Checking Front-to-Rear Level

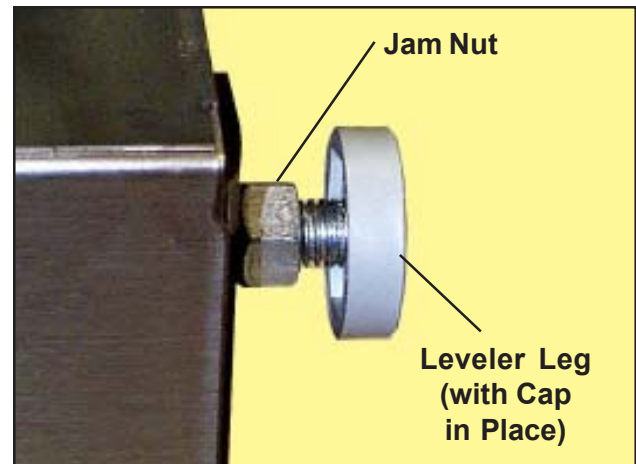
- If the checks in *Steps 1* and *2* indicate that the base is level or very close, proceed to the next sub-section, *Mounting a Flat Table Top*, on *Page 9*, or *Mounting a V-Style Table Top* on *Page 13*, as appropriate.
- If the base is substantially out of level, proceed to *Step 3* below.

**CAUTION:** The base is heavy and we recommend that laying it down be done by at least two people.

3. Lay the base down as shown in Figure 3 to reach the leveler legs under the unit. **Note:** The base is shipped with the leveler legs screwed fully into the base, so they must be backed out to provide adjustment room.
4. With a 9/16-in. wrench, loosen the jam nuts on all four leveler legs (Figures 3 and 4) and unscrew all four leveler legs out about 1/2-in.



**Figure 3. Base Laying Down**



**Figure 4. Leveler Leg and Jam Nut**

5. Turn the base right-side-up.
6. Place a carpenter's level length-wise on the tilt frame (Figure 1).
7. With a 7/8-in. wrench, turn the leveler legs (Figure 4) as necessary to level the base, right-to-left.
8. Place the level cross-wise on the tilt frame (Figure 2).
9. Turn the leveler legs as necessary to level the base, front-to-rear.
10. Re-check the level both ways and re-adjust the leveler legs until the base is in perfect level, right-to-left and front-to-rear.
11. When the base is level (and all legs firmly touch the floor), hold each leveler leg steady with the wrench, and then tighten the jam nut firmly up against the bottom of the base.
12. When leveling is complete, press the four leveler caps onto the leveler legs.

## Mounting a Flat Table Top

(To mount a V-Style Table Top, refer to *Page 13*.)

Assembly procedures for 46-in. and 58-in. flat table tops are identical. Refer to the pages listed below for instructions for unheated and heated models:

- Unheated - *Page 10*
- Heated - *Page 11*

## Unheated Flat Table Tops

### Tools Required

- Two 1/2-in. wrenches (at least one must be open-end)

### Assembly Procedure

1. After removing the table top from the shipping carton, place the top upside-down on a smooth, clean floor or other surface. **Note:** Place sheets or other soft materials on the floor to avoid scratching the table top.
2. With two 1/2-in. wrenches, remove the four cap screws and nuts, and eight flat washers from the table top frame (Figure 5). **Note:** Save these screws, nuts and washers - you will use them in *Steps 5* and *6* to mount the table top to the base.

**Note:** Figures 5 and 6 show a heated table top, however, they apply equally well to unheated tops.

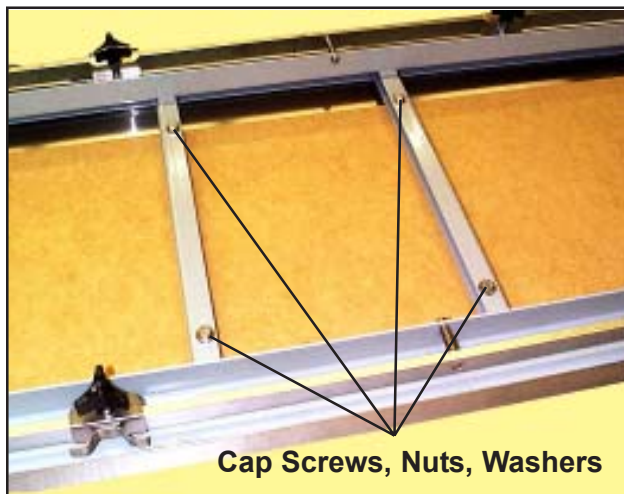


Figure 5. Hardware in Table Top Frame

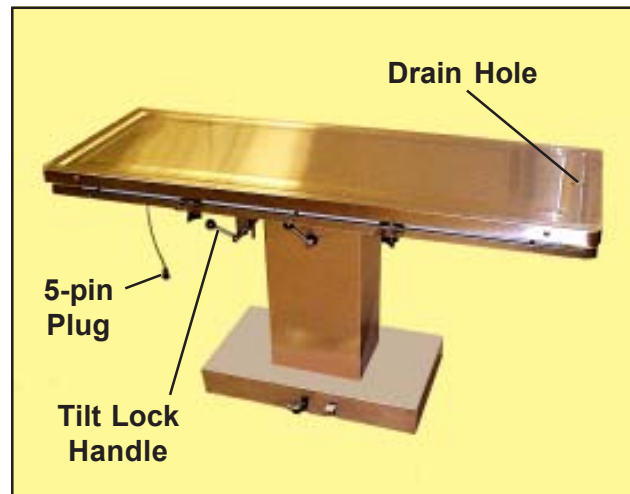
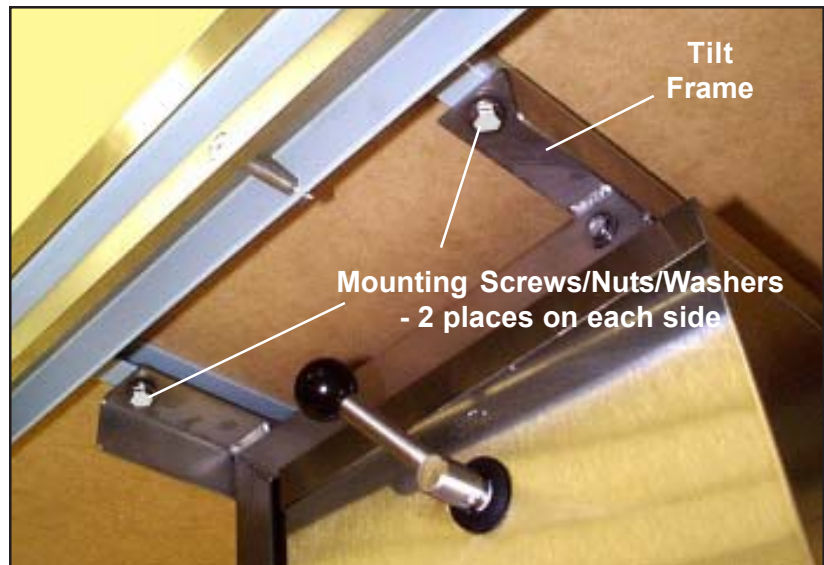


Figure 6. Table Top Mounted on Base

3. Place the table top frame on the tilt frame of your base (Figure 6). **Note:** Position the frame so that the end of the table with the drain hole is on the opposite side of the base from the tilt lock handle.
4. Align the table frame on the base so that the mounting holes on the frame line up with the mounting holes in the tilt frame.
5. Place one flat washer on each of the four mounting screws. Use the remaining washers between the nuts and the table frame.





**Figure 7. Mounting Screws/Nuts/Washers - Table Top to Base**

6. Secure the top frame to the tilt frame with the four screws/nuts/washers (Figure 7).

*Assembly of your SSCI Hydraulic Base and Unheated Flat Operating Table is now complete.*

## **Heated Flat Table Tops      Tools Required**

- Two 1/2-in. wrenches (at least one must be open-end)

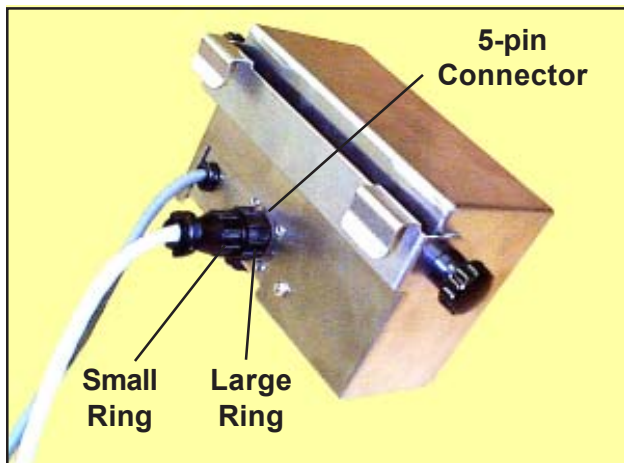
### **Assembly Procedure**

1. After removing the table top from the shipping carton, place the top upside-down on a smooth, clean floor or other surface. **Note:** Place sheets or other soft materials on the floor to avoid scratching the table top.
2. With two 1/2-in. wrenches, remove the four cap screws and nuts, and eight flat washers from the table top frame (Figure 5). **Note:** Save these screws, nuts and washers - you will use them in *Steps 5* and *6* to mount the table top to the base.
3. Place the table top frame on the tilt frame of your base (Figure 6). **Note:** Position the frame so that the end of the table with the drain hole is on the opposite side of the base from the tilt lock handle.

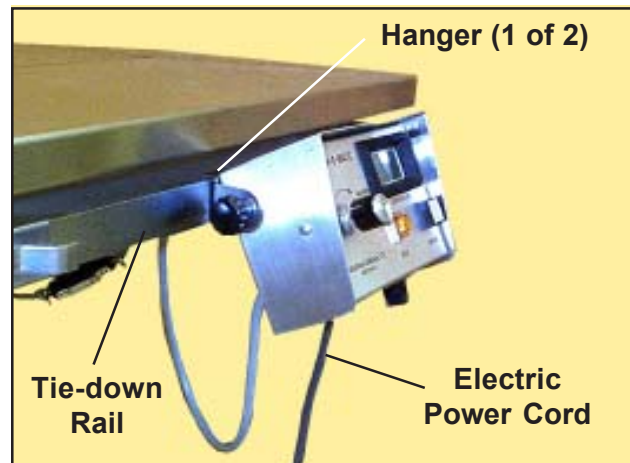
4. Align the table frame on the base so that the mounting holes on the frame line up with the mounting holes in the tilt frame.
5. Place one flat washer on each of the four mounting screws. Use the remaining washers between the nuts and the table frame.
6. Secure the top frame to the tilt frame with the four screws/nuts/washers (Figure 7).

**WARNING:** To tighten or loosen the 5-pin connector, **ALWAYS** turn the large ring (Figure 8). **NEVER** turn the small ring. Trying to turn the small ring can tear the pins out of the connector.

7. Making sure that the pins and holes line up correctly, plug the 5-pin plug into the socket in the back of the heat controller and secure the connection by turning the large ring clockwise (Figure 8).



**Figure 8. Attaching 5-pin Connector to the Heat Controller**



**Figure 9. Mounting the Heat Controller**

8. Hang the heat controller on the tie-down rail at a convenient location (Figure 9).
9. Plug in the electric power cord.

***Assembly of your SSCI Hydraulic Base and Heated Flat Operating Table is now complete.***

## Mounting a V-Style Table Top

(To mount a Flat Table Top, refer to *Page 9*.)

Assembly procedures for 46-in. and 58-in. V-style table tops are identical. Refer to the pages listed below for instructions for unheated and heated models:

- Unheated - *Page 13*
- Heated - *Page 16*

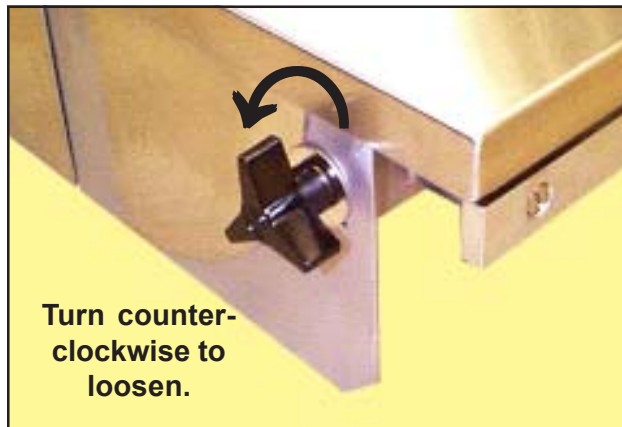
## Unheated V-Style Table Tops

### Tool Required

- 1/2-in. socket, box-end or open-end wrench

### Assembly Procedure

1. After removing the table top from the shipping carton, place it right-side-up on a smooth, clean floor.  
**Note:** Place sheets or other soft materials on the floor to avoid scratching the stainless steel table top.
2. Loosen one top panel adjusting knob (turn the knob counter-clockwise) on one end of the table (Figure 10).
3. Pivot that top panel up to a 90° angle (Figure 11).
4. Lift up on the panel and remove it from the table.
5. Repeat *Steps 2 through 4* above to remove the remaining top panel.



**Figure 10. Top Panel Adjusting Knob (One of Four)**



**Figure 11. Top Panel at 90° Angle**

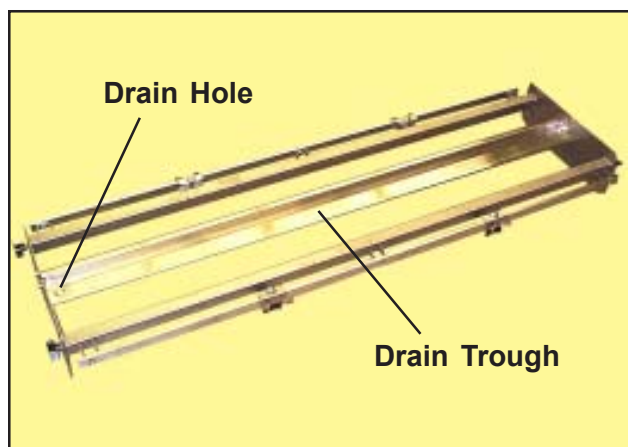


Figure 12. Drain Trough

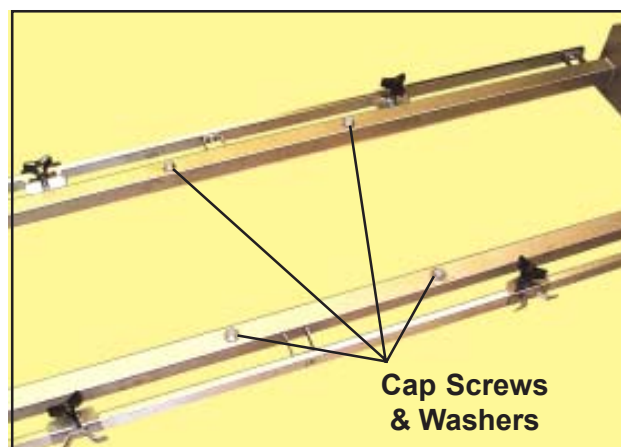


Figure 13. Cap Screws and Washers in Table Top Frame

6. Lift out the drain trough (Figure 12).
7. Turn the table top frame over so that it is upside-down.
8. With a 1/2-in. wrench, remove the four cap screws and eight flat washers from the table top frame (Figure 13).  
**Note:** Save these screws and washers - you will use them in Steps 11 and 12 to mount the table top to the base.
9. Place the table top frame on the tilt frame of your base (Figure 14). **Note:** The holes in the top frame are not in the center of the frame. Position the frame so that the longer end of the table is on the opposite side of the base from the tilt lock handle.

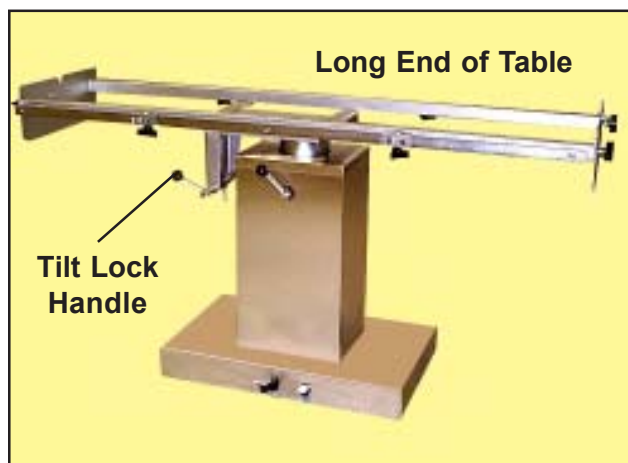


Figure 14. Table Top Frame Mounted on Base



Figure 15. Mounting Screws/Washers - Table Top to Base

10. Align the table frame on the base so that the mounting holes on the frame line up with the mounting holes on the tilt frame (Figure 15).
11. Place two flat washers on each of the four mounting screws.
12. Secure the top frame to the tilt frame with the four screws/washers.
13. Position the drain trough in the table top frame by placing the side flanges of the trough over the two supporting studs on either end of the frame (Figure 16).  
**Note:** Orient the trough so that the drain hole is on the opposite side of the base from the tilt lock handle.

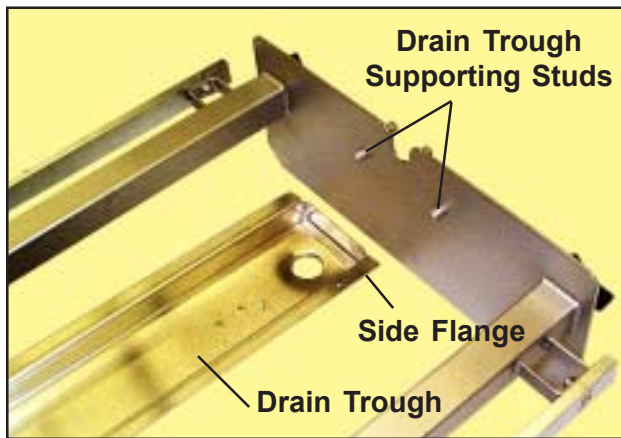


Figure 16. Installing the Drain Trough

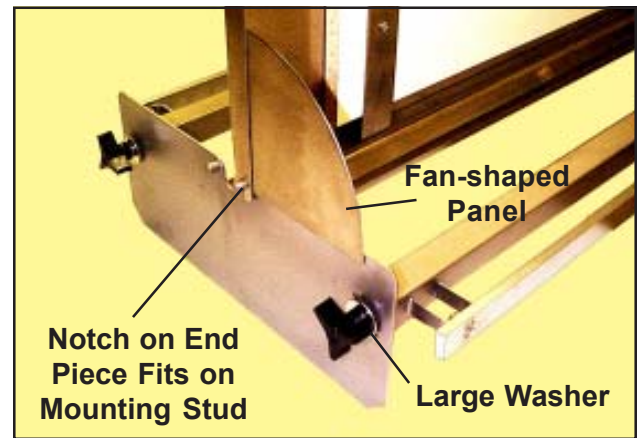


Figure 17. Installing a Top Panel

14. Loosen the adjusting knobs on both ends of the table for one of the top panels.
15. Drop a top panel in place on the table at a 90° angle (Figure 17). The small notches on the end pieces fit over the mounting studs on each end. Make sure that the fan-shaped metal panel fits *under* the large washers behind both knobs.
16. Pivot the top panel down to its normal position and tighten the adjusting knobs.
17. Repeat Steps 14 through 16 and install the remaining top panel.

***Assembly of your SSCI Hydraulic Base and unheated V-Style Operating Table is now complete.***



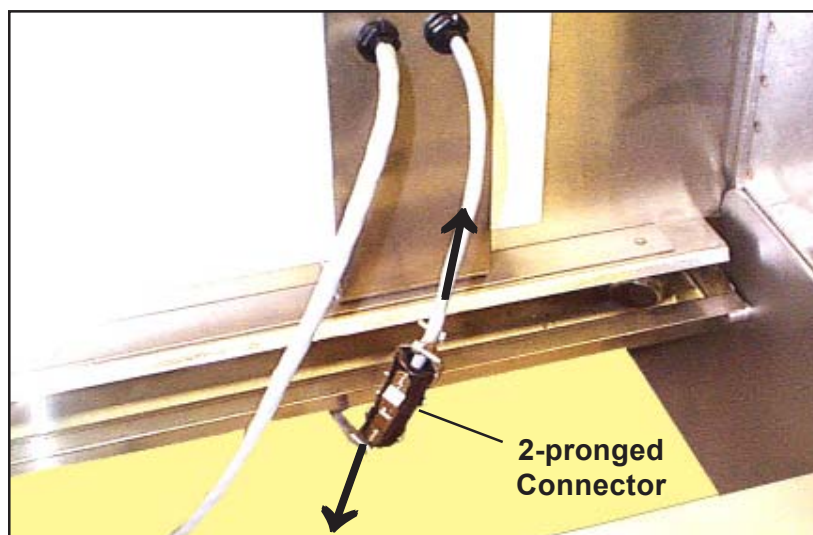
## Heated V-Style Table Tops

### Tool Required

1/2-in. socket, box-end or open-end wrench

### Assembly Procedure

1. After removing the table top from the shipping carton, place it right-side-up on a smooth, clean floor.  
**Note:** Place sheets or other soft materials on the floor to avoid scratching the stainless steel table top.
2. Loosen one top panel adjusting knob (turn the knob counter-clockwise) on one end of the table (Figure 10).
3. Pivot that top panel to a 90° angle (Figure 11).
4. Disconnect the two halves of the 2-pronged connector under the top panels (Figure 18). **Note:** Squeeze the latches inward and pull the plugs apart.



**Figure 18. Disconnecting the 2-pronged Connector Under the Table.**

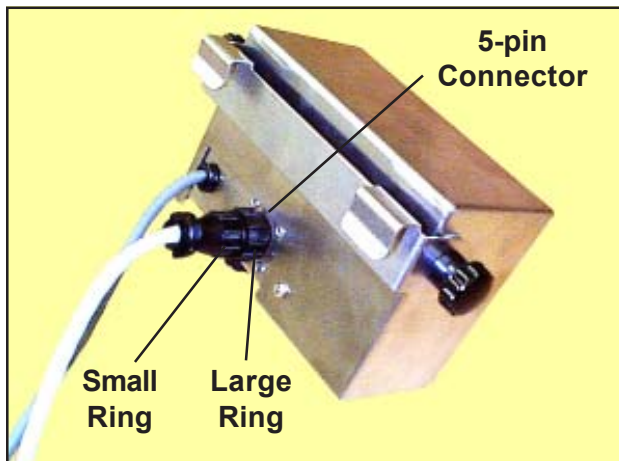
5. Lift up on the panel and remove it from the table.
6. Repeat *Steps 2, 3 and 5* above to remove the remaining top panel from the table.
7. Lift out the drain trough (Figure 12).
8. Turn the table top frame over so that it is upside-down.

9. With a 1/2-in. wrench, remove the four cap screws and eight flat washers from the underside of the table top frame (Figure 13). **Note:** Save these screws and washers - you will use them in *Steps 12* and *13* to mount the table top to the base.
10. Place the table top frame on the tilt frame of your base (Figure 14). **Note:** The holes in the top frame are not in the center of the frame. Position the frame so that the longer end of the table is on the opposite side of the base from the tilt lock handle.
11. Align the table frame on the base so that the mounting holes on the frame line up with the mounting holes in the tilt frame (Figure 15).
12. Place two flat washers on each of the four mounting screws.
13. Secure the top frame to the tilt frame with the four screws/washers.
14. Position the drain trough in the table top frame by placing the side flanges of the trough over the two supporting studs on either end of the frame (Figure 16). **Note:** Orient the trough so that the drain hole is on the opposite side of the base from the tilt lock handle.
15. Loosen the adjusting knobs on both ends of the table for one of the top panels.
16. Drop a top panel in place on the table at a 90° angle (Figure 17). The small notches on the end pieces fit over the mounting studs on each end. Make sure that the fan-shaped metal panels fit *under* the large washers behind both knobs.
17. Pivot the top panel down to its normal position and tighten the adjusting knobs.
18. Repeat *Steps 15* through *17* and install the remaining top panel.
19. Pivot the top panel with the two electric cords attached to the underside to the 90° angle position.

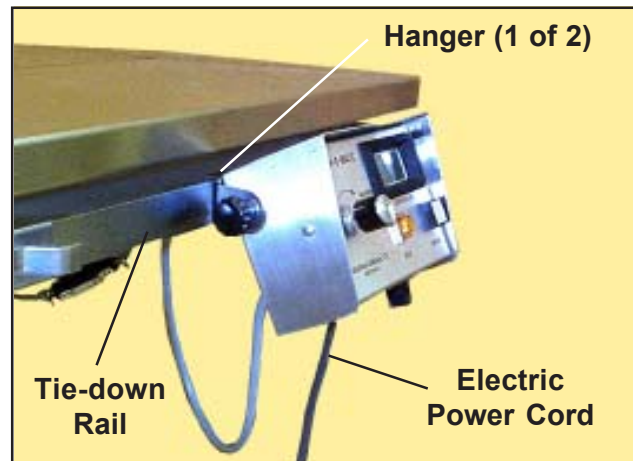
20. Plug the male, 2-pronged connector into the female plug under the table (Figure 18). **Note:** The prongs are different sizes - make sure they align properly.
21. Secure the two plugs together with the locking clips on the plugs. **Note:** The longer latches should go *under* the shorter latches.

**WARNING:** To tighten or loosen the 5-pin connector, **ALWAYS** turn the large ring (Figure 19). **NEVER** turn the small ring. Trying to turn the small ring can tear the pins out of the connector.

22. Making sure that the pins and holes line up correctly, plug the 5-pin plug into the socket in the back of the heat controller and secure the connection by turning the large ring clockwise (Figure 19).



**Figure 19. Attaching 5-pin Connector to the Heat Controller**



**Figure 20. Mounting the Heat Controller**

23. Hang the heat controller on the tie-down rail at a convenient location (Figure 20).
24. Return the top panels to the normal position.
25. Plug in the electric power cord.

***Assembly of your SSCI Hydraulic Base and heated V-Style Operating Table is now complete.***



## **Disposition of the Shipping Carton**

The shipping carton can be cut up and thrown away. If adequate space is available, however, it might be handy to retain the carton in case reshipment of the hydraulic base to the manufacturer ever becomes necessary for repairs.

### Notes:

[illegible]

## Chapter 3 - Operation & Care

### Introduction

Operating the SSCI Imperial Hydraulic Table Base and table is simple and easy. The following instructions cover:

- Raising the Table *Page 21*
- Lowering the Table *Page 22*
- Tilting the Table *Page 22*
- Rotating the Table *Page 23*
- Adjusting the Table Level *Page 23*

### Operating the Table Base

#### Raising the Table

**WARNING:** The Hydraulic Table Base is designed to carry weights up to 300-pounds (136kg). Attempting to lift weights greater than this can damage the hydraulic lifting mechanism. If the lifting mechanism fails, the table can drop suddenly creating a hazardous situation.

The table can be elevated from a minimum height of about 29-in. (74cm) to a maximum height of about 41-in. (104cm) (Figure 21). These dimensions are measured from the upper surface of a flat top table in the horizontal position, to the floor.

**CAUTION:** Keep in mind that whenever you loosen the locking handle to raise or lower the table, the table is also free to rotate.



Figure 21. Table Raised to Maximum Height

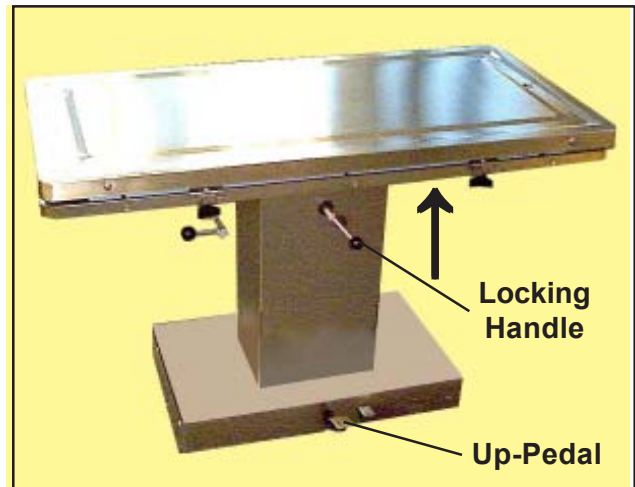


Figure 22. Raising the Table.

To raise the table, rotate the locking handle (Figure 22) about one full turn counter-clockwise. Then, pump down on the up-pedal. With each stroke, the table rises approximately 1/2-in. (1.25cm).

Continue pumping until the table is at the desired height. When the table is where you want it, rotate the locking handle fully clockwise to lock the table in place.

## Lowering the Table

**CAUTION:** Keep in mind that whenever you loosen the locking handle to raise or lower the table, the table is also free to rotate.

To lower the table, rotate the locking handle (Figure 23) about one full turn counter-clockwise. Then, press on the down-pedal and the table will begin to lower gently. Release pressure on the pedal when the table reaches the desired level. As long as pressure is maintained on the down-pedal, the table will continue to lower until it reaches its bottom position. When the table is where you want it, rotate the locking handle fully clockwise to lock the table in place.

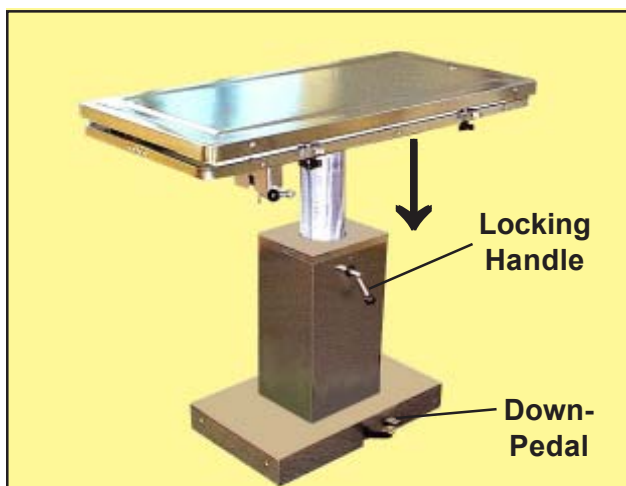


Figure 23. Lowering the Table



Figure 24. Table Shown at Maximum Tilt

## Tilting the Table

The hydraulic base is capable of tilting the table from horizontal to approximately a 60° angle (Figure 24). Tilting the table is done manually.

To tilt the table, rotate the tilt lock handle about one full turn counter-clockwise (Figure 25). Manually position the table to the desired tilt angle, then rotate the tilt lock handle fully clockwise to lock the table in place.

**CAUTION:** When manually tilting the table up or down with a heavy animal aboard, make sure you have adequate assistance to avoid injury.

**WARNING:** When the table is tilted, make very sure someone is supporting the table before releasing the tilt lock handle. If unsupported when the handle is released, the table can slam down with substantial force, possibly injuring individuals or the patient, or damaging the equipment.



Figure 25. Tilting the Table

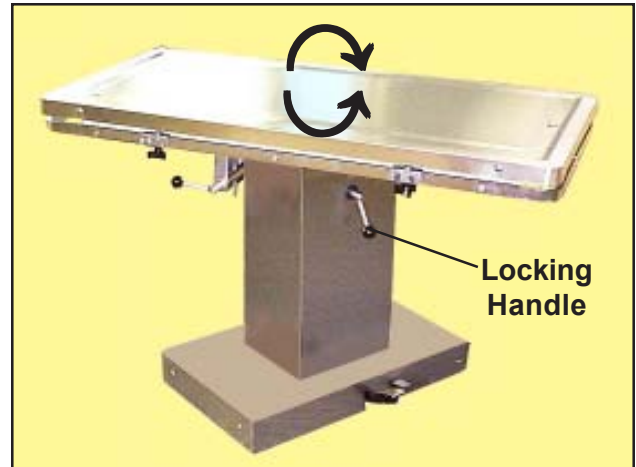


Figure 26. Rotating the Table

### Rotating the Table

The table can be rotated a full 360° for maximum operating convenience.

To rotate the table, turn the locking handle (Figure 26) about one full turn counter-clockwise. Manually rotate the table to the desired position, then turn the locking handle fully clockwise to lock the table in place.

### Adjusting the Table Level

If the table and base are out of level, rotating the leveler legs under the base can correct the problem. Refer to *Leveling the Base* on Page 8 for the complete procedure. It is not necessary to remove the table top to perform the leveling procedure, however, you must make sure that the top is not raised or tilted. The leveler caps can be easily removed from the legs if a wrench is required for adjustment. Be sure to replace them when the procedure is complete.

## Cleaning Instructions

### Introduction

You will no doubt want to clean your base and table whenever they become dirty or saturated with waste fluids. Maintaining high standards of sanitation will be an important priority for your facility.

### Stainless Steel Cleaning Procedures

Ordinary deposits of waste and fluids can usually be removed with soap and water. Stubborn deposits may require scrubbing with “stainless steel” wool, nylon or plastic scrubbers and/or the use of commercial cleaning products. Always scrub in the direction of the “grain” of the metal. Rinse with clear water and dry thoroughly with a clean, soft cloth.

Minor scale build-up and some hard water spotting may be removed by washing with vinegar, followed by a neutralizing rinse of clear water and a thorough drying with clean, soft cloths.

For heavy deposits of scale, 5% oxalic acid (use warm), 5-15% sulfamic acid, or 5-10% phosphoric acid may be used. As always, rinse with clear water and dry thoroughly with clean soft cloths.

Avoid prolonged use of chlorides (such as chlorine bleach), bromides, iodides and thiocyanates. Never allow salty solutions to dry on the stainless steel. **Note:** NEVER power-wash the operating table and base.

## Chapter 4 - Repairs & Replacements

### Replacement Parts

The following replacement parts are available for the SSCI Imperial Hydraulic Table Base. For parts not listed, contact the SSCI Customer Service Department at 1-800-323-7366. Refer to *Contact Information* on *Page 5* and *Parts Ordering Procedure* on *Page 26*.

Part Name	SSCI Part Number	Quantity	Replacement Instructions
Tilt Lock Handle	205258	1	<i>Page 27</i>
Pivot Shaft Spacer	752003	1	<i>Page 28</i>
Lock Bar (Tilt Mechanism)	752004	1	<i>Page 29</i>
Roll Pin (Lock Bar)	854309	1	<i>Page 29</i>
Pivot Shaft (Lock Bar)	752002	1	<i>Page 31</i>
Lock Bar Pad	752005	1	<i>Page 31</i>
Tilt Mechanism, Complete	207412	1	<i>Page 33</i>
Tilt Frame	207410	1	<i>Page 34</i>
Pivot Rod (Tilt Mechanism)	752006	1	<i>Page 34</i>
Column Mount	207142	1	<i>Page 37</i>
Lifting Column	203825	1	<i>Page 39</i>
Locking Handle	204749	1	<i>Page 41</i>
Brake Shoe	206850	1	<i>Page 42</i>
Rubber Grommet	853011	1	<i>Page 44</i>
Hydraulic Pump	200408	1	<i>Page 46</i>
Drip Pan	604057	1	<i>Page 49</i>
Pedal Link	604156	2	<i>Page 50</i>

### Replacement Parts Available for the Imperial Hydraulic Table Base

## General Information

- Many of the threaded fasteners used on SSCI products are secured with thread adhesive to insure structural integrity. Removing any screw or bolt may be difficult at first.
- If during dis-assembly, you remove any tape, cable ties, etc. remember to replace them as you re-assemble the unit.
- During dis-assembly, retain all hardware items such as screws, nuts, lockwashers, etc. for re-assembly.
- If you have problems with any procedure, please feel to call SSCI Customer Service.

## Parts Ordering Procedure

Order new equipment, accessories and/or replacement parts from your local dealer, or directly through the SSCI Customer Service Department. You can order by mail, telephone or fax. Refer to *Contact Information* on *Page 5* for address, telephone and fax numbers. When ordering parts, please provide the following information:

- Your name
- Company name
- Company account number
- Your telephone number
- Shipping address
- Billing address (if different from shipping address)
- Names, part numbers and quantities of items being ordered
- Credit card number and expiration date, or other payment information
- Preferred method of shipment
- Information on whether the items are required on a normal or urgent basis



## Parts Replacement Procedures

### Tilt Lock Handle P/N 205258

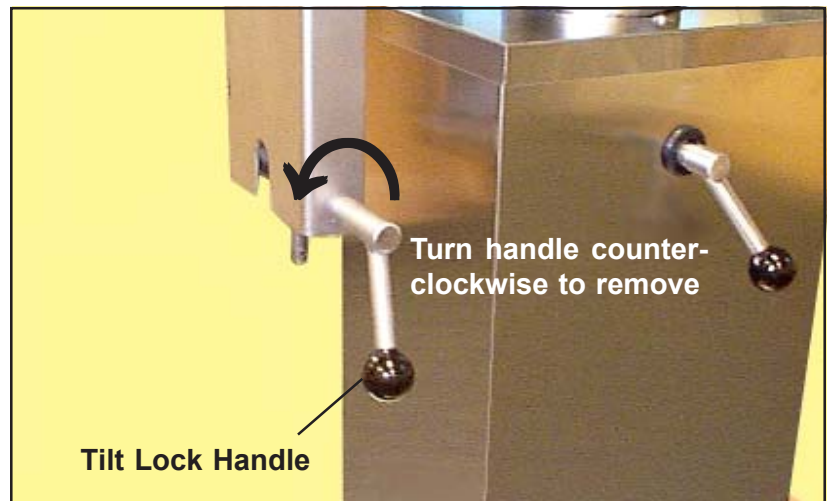
#### Supplies Required

- White lithium grease (Lubriplate)

#### Removal

**CAUTION:** Removing the tilt lock handle releases all pressure on the tilt mechanism and the table may suddenly fall. When you remove the tilt lock handle, the table **MUST** be in the lowest (horizontal) position.

1. If the table is tilted, return it to the normal, down position.
2. Turn the tilt lock handle counter-clockwise until it falls free (Figure 27).



**Figure 27. Removing the Tilt Lock Handle**

#### Installation

1. Coat the threads on the new tilt lock handle with white lithium grease (available at your local hardware store under the name "Lubriplate").
2. Screw the handle into place until it seats.

**Pivot Shaft Spacer (Tilt Mechanism)**  
**P/N 752003**

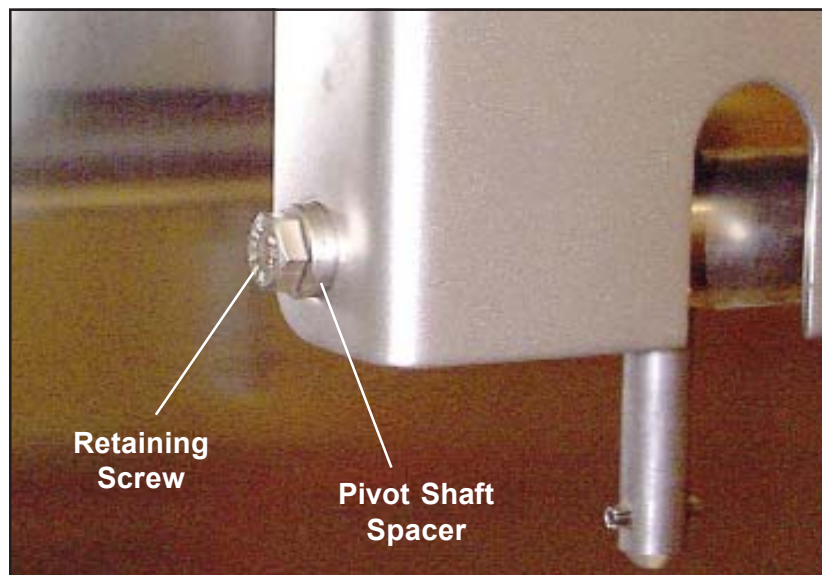
**Tool Required**

- 1/2-in. wrench

**Removal**

**CAUTION:** Do not remove the retaining screw and spacer if the table is tilted up.

1. If the table is tilted, return it to the normal, down position.
2. With a 1/2-in. wrench, remove the retaining screw and spacer (Figure 28).
3. Remove the spacer.



**Figure 28. Removing the Pivot Shaft Spacer**

**Installation**

1. Place the new spacer onto the retaining screw.
2. Install the retaining screw, with the attached spacer.  
**Note:** Make sure the spacer is centered in the mounting hole.

## Lock Bar (Tilt Mechanism)

P/N 752004

## Roll Pin

P/N 854309

These instructions guide you in replacing the tilt mechanism lock bar and/or the roll pin.

### Tools Required

- Two 1/2-in. wrenches
- Two 7/16-in. wrenches
- 5/32-in. dia. drift pin or punch
- Small hammer or mallet
- Wooden stick or metal rod, approximately 11-in. long

### Removal

**CAUTION:** To prevent injury, we recommend that the table top be removed before performing this procedure.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Loosen the tilt lock handle and tilt the tilt frame up (Figure 29).
3. Place an 11-in. wood or metal brace in the tilt mechanism to support the tilt frame in a raised position, and lower the frame down to rest on the brace. *Do not* tighten the tilt lock handle.

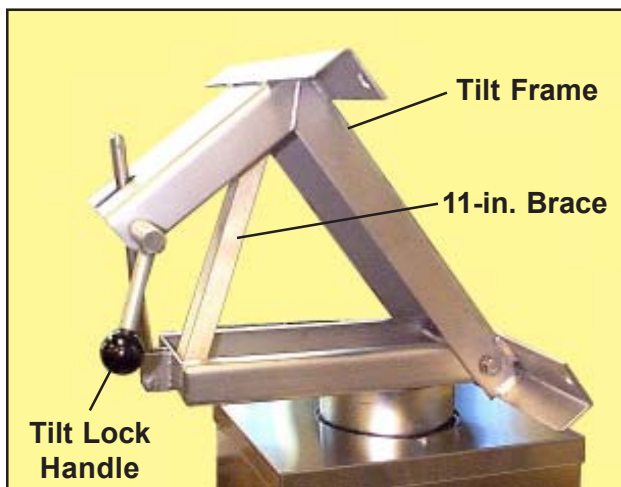


Figure 29. Tilt Frame in Raised Position

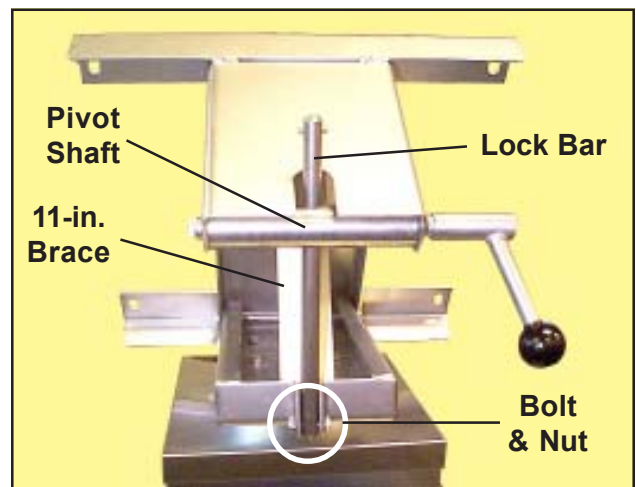
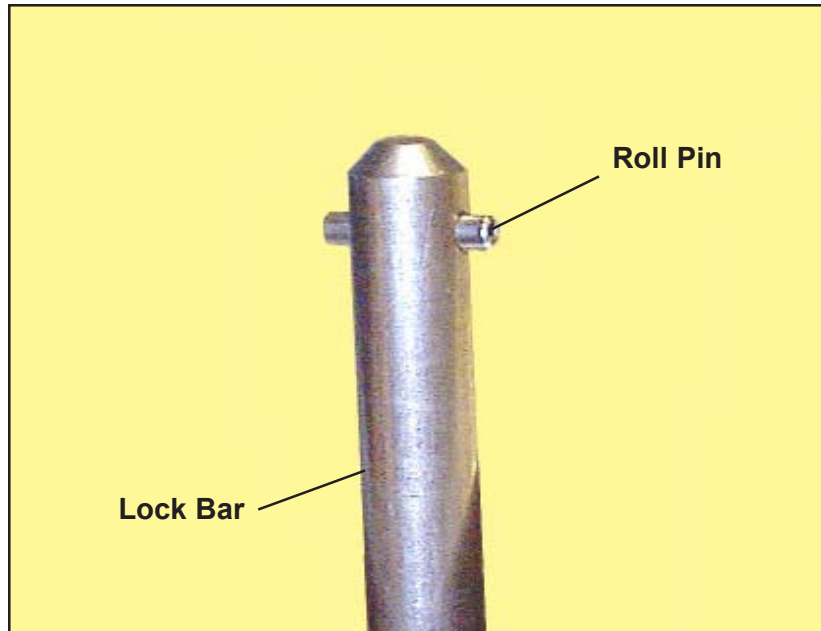


Figure 30. Removing the Lock Bar

4. With two 7/16-in. wrenches, remove the bolt and nut holding the lower end of the lock bar in place (Figure 30).
5. Slide the lock bar up and out of the pivot shaft.

6. To re-use the existing roll pin, use a 5/32-in. drift pin or punch and a small hammer to drift the pin from the lock bar (Figure 31).



**Figure 31. Roll Pin in Place in the Lock Bar**

### **Installation**

1. Drift the new or existing roll pin into the hole in the upper end of the new lock bar (Figure 31). Center the roll pin in the lock bar.
2. Slide the lock bar down through the hole in the pivot shaft (Figure 30).
3. Fasten the lower end of the lock bar to the bracket with the bolt and nut removed earlier.
4. Remove the 11-in. brace and allow the top bracket to return to the bottom position.
5. Tighten the tilt lock handle.
6. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

**Pivot Shaft (Lock Bar)**  
**P/N 752002**

**Lock Bar Pad**  
**P/N 752005**

These instructions guide you in replacing the lock bar pivot shaft and/or the lock bar pad.

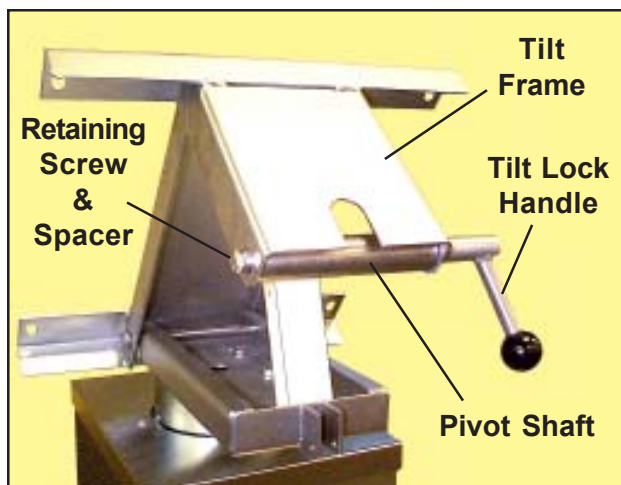
**Tools Required**

- Two 7/16-in. wrenches
- Two 1/2-in. wrenches
- Wooden stick or metal rod, approximately 11-in. long
- White lithium grease (Lubriplate)

**Removal**

**CAUTION:** To prevent injury, we recommend that the table top be removed before performing this procedure.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Remove the lock bar. Refer to *Lock Bar (Tilt Mechanism) - Removal*, on Page 29 and perform Steps 2 through 5. Do not remove the roll pin from the lock bar.
3. Turn the tilt lock handle counter-clockwise until it comes off (Figure 32).
4. With a 1/2-in. wrench, remove the pivot shaft retaining screw and spacer. **Note:** When the screw is removed, the pivot shaft will fall free from the tilt frame.
5. Tilt the pivot shaft so that the handle end points down - the lock bar pad will fall out (Figure 33).



**Figure 32. Removing the Pivot Shaft**



**Figure 33. Removing the Lock Bar Pad from the Pivot Shaft**

## Installation

1. Cover the lock bar pad with a thin coating of white lithium grease (available at your local hardware store under the name “Lubriplate”).
2. Slide the lock bar pad down into the pivot shaft (Figure 33). **Note:** Make sure the pad goes all the way into the hole.
3. Hold the pivot shaft in the tilt frame and insert the retaining screw and spacer removed earlier. **Note:** Make sure the spacer is centered in the mounting hole in the bracket. **Note:** Do not fully tighten the screw - leave it a little loose so the pivot shaft can rotate to accept the lock bar.
4. Put a light coat of grease on the tilt lock handle threads.
5. Screw the tilt lock handle into place, but do not tighten it fully (Figure 32).
6. Make sure that the lock bar pad is not blocking the hole in the pivot shaft. If it is, move it towards the handle end until it clears the hole.
7. Slide the lock bar down through the pivot shaft (Figure 30).
8. Fasten the lower end of the lock bar to the bracket with the bolt and nut removed earlier.
9. Tighten the pivot shaft retaining screw and spacer.
10. Remove the 11-in. brace and allow the top bracket to return to the bottom position.
11. Try tilting the tilt frame up. If it binds or is hard to move, slightly loosen the nut on the lower end of the lock bar (Figure 30).
12. Tighten the tilt lock handle.
13. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

**Tilt Mechanism,  
Complete  
P/N 207412**

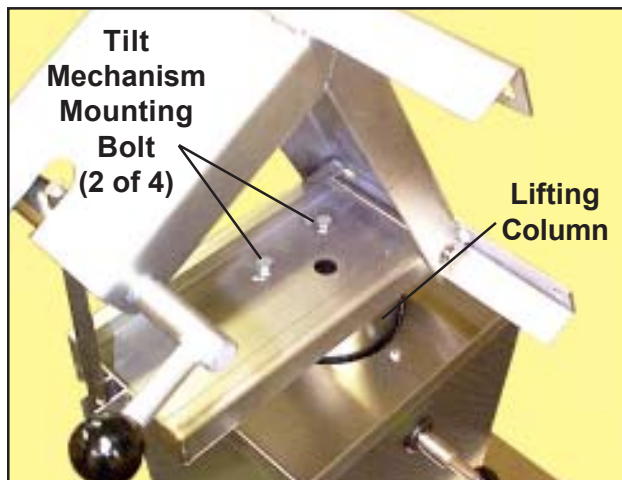
**Tools Required**

- Two 1/2-in. wrenches

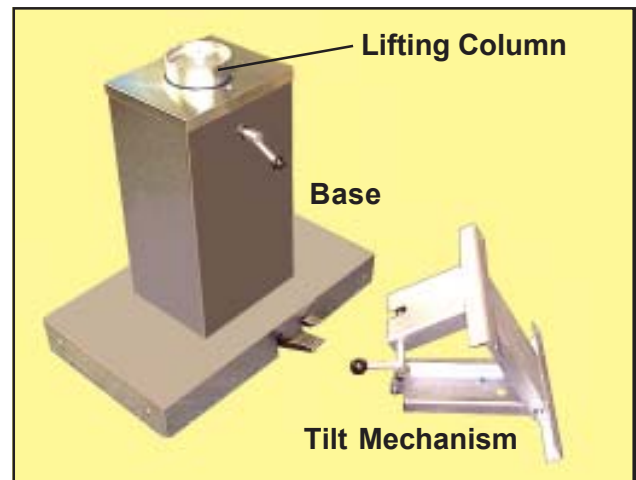
**Removal**

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Raise the tilt mechanism to its highest angle and lock it.
3. With a 1/2-in. wrench, remove the four bolts that hold the tilt mechanism to the top of the lifting column (Figure 34).
4. Lift the tilt mechanism off the base (Figure 35).



**Figure 34. Removing the Tilt Mechanism from the Base**



**Figure 35. Tilt Mechanism and Base**

**Installation**

1. Place the tilt mechanism on the lifting column as shown in Figure 34.
2. Secure the tilt mechanism to the lifting column with the four bolts.
3. Lower the tilt mechanism to its lowest position.
4. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).



## Tilt Frame

P/N 207410

## Pivot Rod (Tilt Mechanism)

P/N 752006

These instructions guide you in replacing the tilt frame and/or the tilt mechanism pivot rod.

### Tools Required

- Two 1/2-in. wrenches
- Flat-blade screwdriver (shaft at least 5-3/4-in. long and blade no more than 3/8-in. wide)
- Small hammer or mallet
- Wooden stick or metal rod, approximately 11-in. long
- White lithium grease (Lubriplate)

### Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Loosen the tilt lock handle and tilt the tilt frame up (Figure 29).
3. Place an 11-in. wood or metal brace in the tilt mechanism to support the frame in a raised position, and lower the frame down to rest on the brace. *Do not* tighten the tilt lock handle.
4. Turn the tilt lock handle counter-clockwise until it comes off.

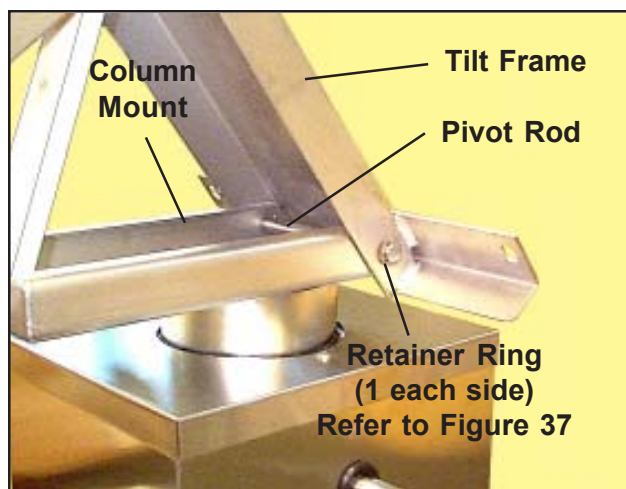


Figure 36. Pivot Rod and Retaining Rings

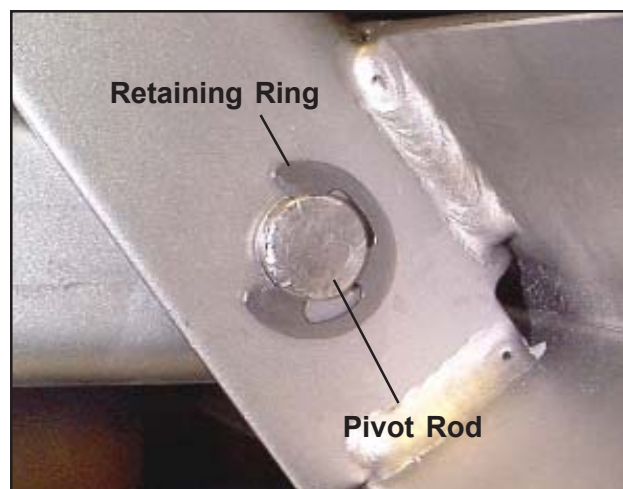


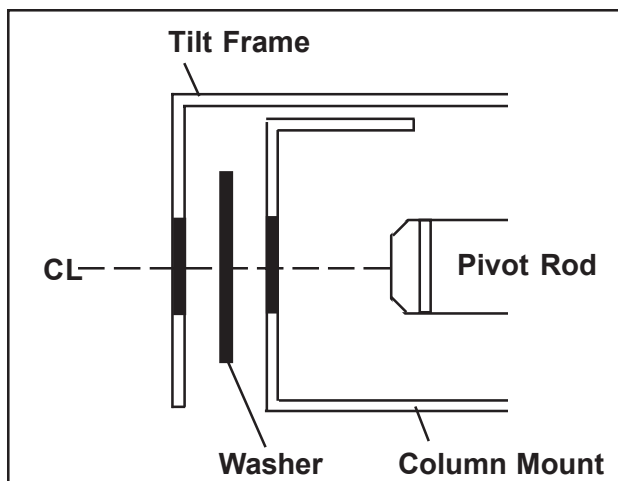
Figure 37. Pivot Rod and Retaining Ring



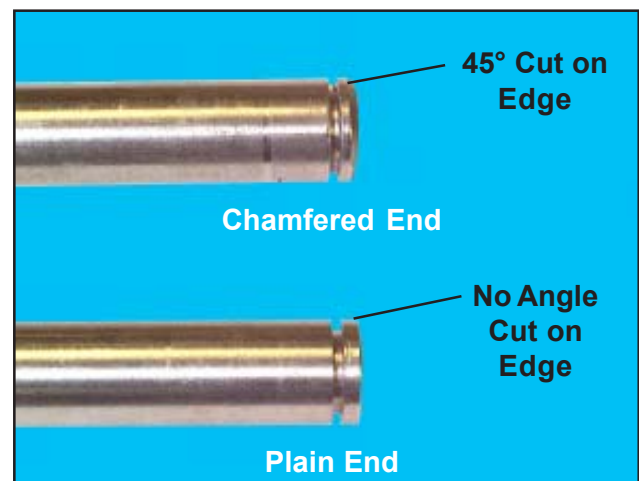
5. With a 1/2-in. wrench, remove the pivot shaft retaining screw and spacer (Figure 32). When the screw is removed, allow the lock bar to pivot down, and the pivot shaft to slide to the bottom.
6. With a flat-blade screwdriver, pry off both retaining rings on the pivot rod (one ring on each end)(Figures 36 and 37).
7. With a suitable flat-blade screwdriver (Refer to *Tools Required* on Page 34) and a small hammer or mallet, drift the pivot rod out of the tilt frame.
8. Lift off the tilt frame and remove the two washers from between the tilt frame and column mount (Figure 38).

### Installation

1. Apply a small amount of white lithium grease (available at your local hardware store under the name "Lubriplate") on both washers. **Note:** The grease will help hold the washers in place while you install the pivot rod.
2. Place the washers between the tilt frame and column mount, aligned with the pivot rod mounting holes (Figure 38).
3. Notice the ends of the pivot rod. One end has a chamfer (beveled edge) around the perimeter of the end (Figure 39).



**Figure 38. Washers Between the Column Mount and Tilt Frame**



**Figure 39. Pivot Rod Ends**

4. Place the tilt frame on the column mount (Figure 36), being careful not to disturb the washers.
5. Check the pivot rod mounting holes to be sure that neither of the washers will obstruct the passage of the pivot rod. Re-position any washer that presents an obstruction.
6. Place the chamfered end of the pivot rod into one of the mounting holes and drift the rod all the way through the tilt frame, washers and column mount assembly.
7. Secure the pivot rod in place by snapping a retaining ring on the groove in each end of the rod (Figure 37).
8. Support the tilt frame with the 11-in. brace again.
9. Pivot the lock bar and pivot shaft up and secure them in place by mounting the retaining screw and spacer (Figure 32). **Note:** Make sure the spacer is centered in the mounting hole in the bracket.
10. Put a light coat of white lithium grease on the tilt lock handle threads.
11. Screw the tilt lock handle into place, but do not tighten it fully.
12. Remove the 11-in. brace and allow the tilt frame to return to the bottom position.
13. Tighten the tilt lock handle.
14. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

## Column Mount

P/N 207142

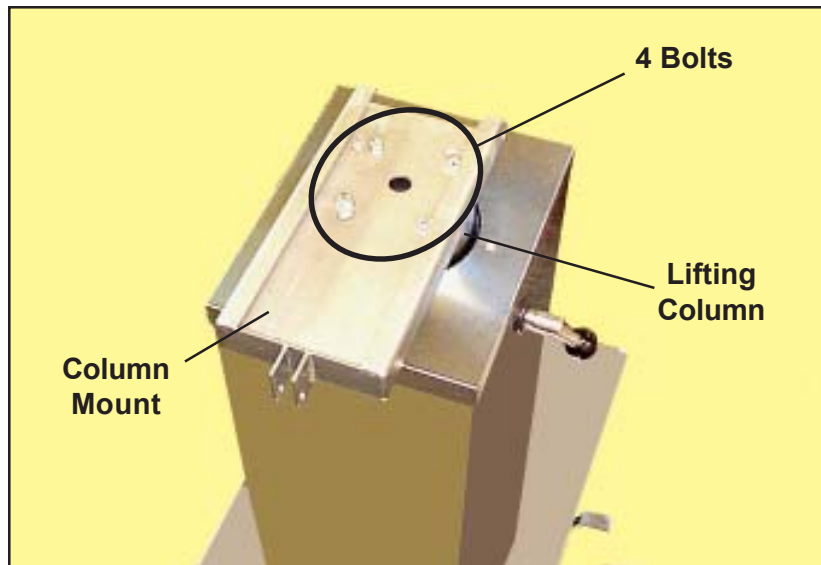
## Tools Required

- Two 7/16-in wrenches
- Two 1/2-in. wrenches
- Flat-blade screwdriver (shaft at least 5-3/4-in. long and blade no more than 3/8-in. wide)
- Small hammer or mallet
- Wooden stick or metal rod, approximately 11-in. long
- White lithium grease (Lubriplate)

## Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Loosen the tilt lock handle and tilt the tilt frame up (Figure 29).
3. Place an 11-in. wood or metal brace in the tilt mechanism to support the frame in a raised position, and lower the frame down to rest on the brace.
4. With two 7/16-in. wrenches, remove the bolt and nut holding the lower end of the lock bar in place (Figure 30).
5. With a flat-blade screwdriver, pry off both retaining rings on the pivot rod (one ring on each end)(Figures 36 and 37).
6. With a suitable flat-blade screwdriver (Refer to *Tools Required* above) and a small hammer or mallet, drift the pivot rod out of the tilt frame.
7. Lift off the tilt frame and remove the two washers from between the tilt frame and column mount (Figure 38).
8. With a 1/2-in. wrench, remove the four bolts that hold the column mount to the top of the lifting column (Figure 40).
9. Lift off the column mount.



**Figure 40. Column Mount Bolts**

### Installation

1. Place the column mount on the lifting column as shown in Figure 40.
2. Secure the column mount to the lifting column with the four bolts removed earlier.
3. Install the tilt frame. Refer to *Tilt Frame - Installation*, on Page 35 and perform Steps 1 through 7.
4. Fasten the lower end of the lock bar to the bracket with the bolt and nut removed earlier.
5. Remove the 11-in. brace and allow the top bracket to return to the bottom position.
6. Tighten the tilt lock handle.
7. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

## Lifting Column

P/N 203825

### Tools Required

- Two 1/2-in. wrenches
- White lithium grease (Lubriplate)

### Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Rotate the tilt lock handle counter-clockwise, tilt the tilt mechanism up to its highest position, and then tighten the tilt lock handle.
3. Grasp the tilt mechanism and lift the entire column assembly up and out of the base (Figure 41).
4. With a 1/2-in. wrench, remove the four bolts which hold the tilt mechanism to the lifting column (Figure 42) and separate the two assemblies.



Figure 41. Column Assembly Removed from Base

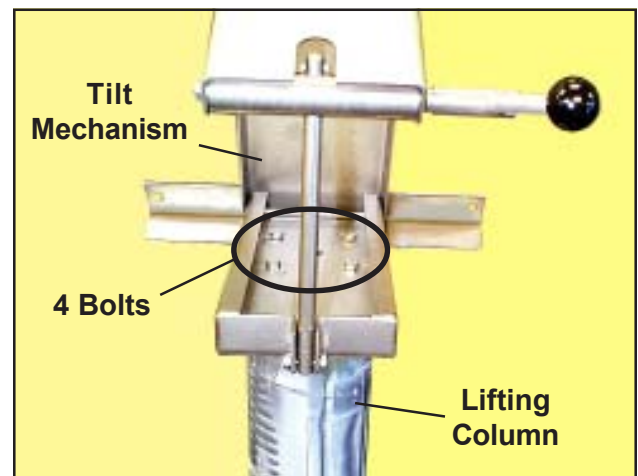


Figure 42. Tilt Mechanism and Lifting Column

## Installation

1. Mount the new lifting column to the tilt mechanism with the four bolts removed earlier (Figure 42).
2. Cover the lifting column with a generous coat of white lithium grease (available at your local hardware store under the name “Lubriplate”). **Note:** A spray lubricant can be used, but Lubriplate tends to last longer.
3. Place the column assembly into the base. You may have to jiggle it a bit to get it to go all the way down.
4. Loosen the tilt lock handle, lower the tilt mechanism to its lowest position, then tighten the tilt lock handle.
5. Turn the locking handle clockwise to firmly lock the column in place.
6. Try to rotate the lifting column and try to pump the base up. With the locking handle tight, you should not be able to move the column easily.
7. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

## Locking Handle

P/N 204749

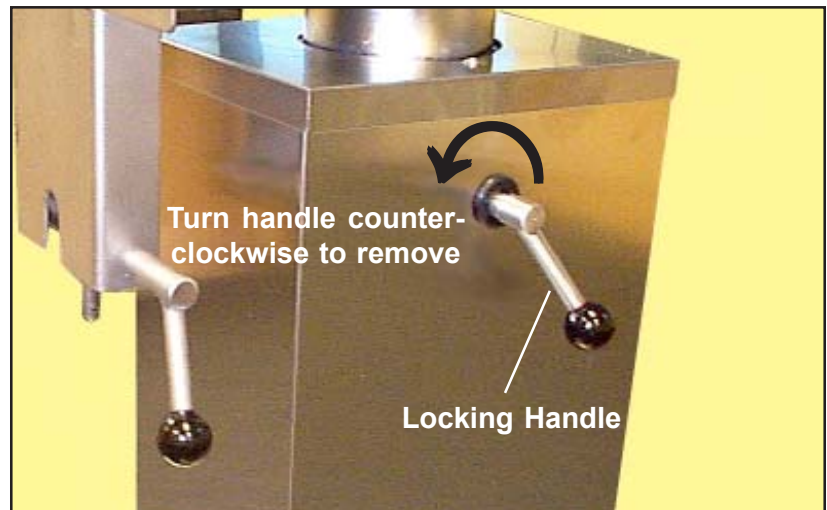
## Supplies Required

- White lithium grease (Lubriplate)

## Removal

**CAUTION:** Removing the locking handle releases all brake pressure on the lifting column. The table will be free to rotate, and may fall uncontrolled. When you remove the locking handle, the table **MUST** be in the bottom position and not tilted.

1. Make sure that the table is in its lowest position and not tilted (horizontal).
2. Turn the locking handle counter-clockwise until it falls free (Figure 43).



**Figure 43. Removing the Locking Handle**

## Installation

1. Coat the threads on the new locking handle with white lithium grease (available at your local hardware store under the name "Lubriplate").
2. Screw the handle into place until it seats.

## Brake Shoe

P/N 206850

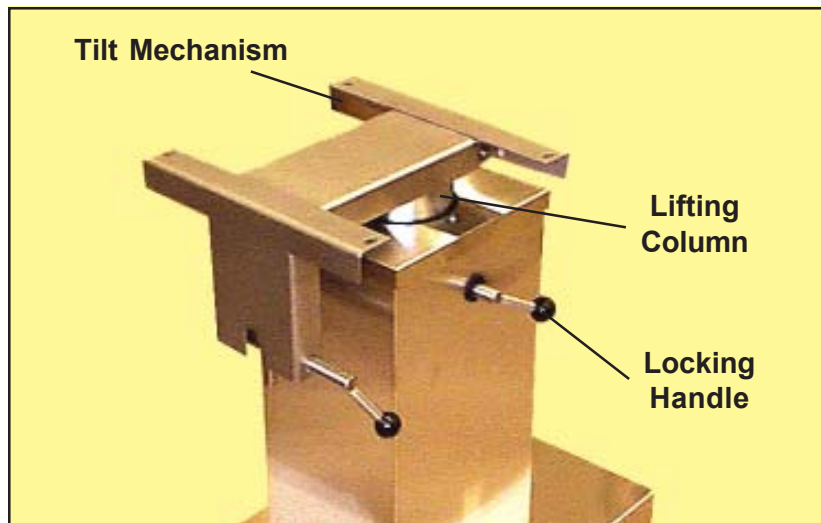
## Supplies Required

- Two 1/2-in. wrenches
- White lithium grease (Lubriplate)

## Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Rotate the locking handle about one to one-and-one half turns, counter-clockwise (Figure 44). **Note:** Do not turn the handle too far. If the handle is unscrewed too far, the brake shoe can become detached and fall to the bottom. It is not easy to retrieve!



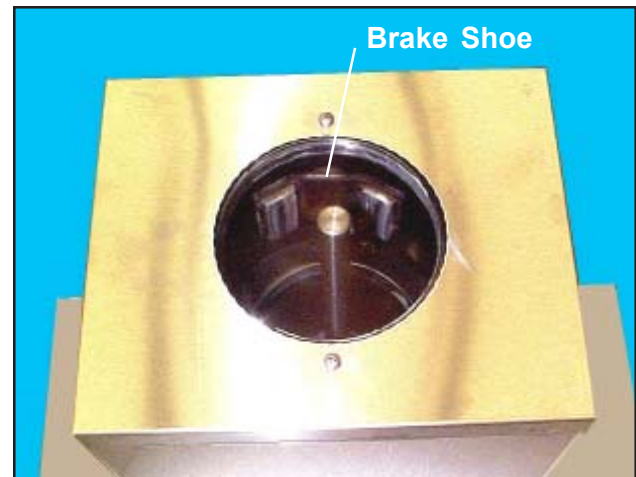
**Figure 44. Hydraulic Base**

3. Grasp the tilt mechanism (Figures 44 and 45) and lift the entire column assembly up and out of the base.
4. Look into the base and note how the brake shoe is oriented so that you can install the replacement correctly (Figure 46).
5. Reach into the base, pull the old brake shoe off about one-inch, and then lift it out. Be careful not to drop it into the unit. It is not easy to retrieve!





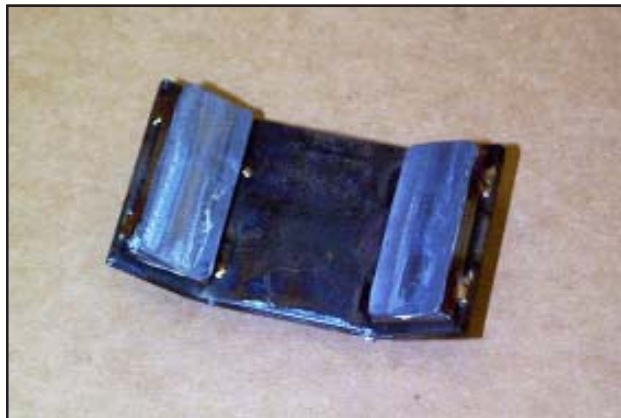
**Figure 45. Column Assembly Removed from Base**



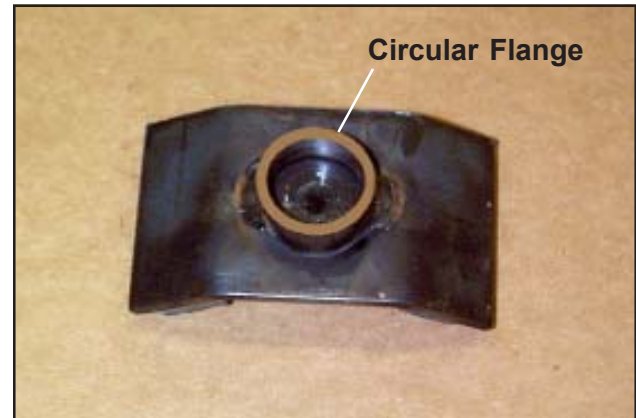
**Figure 46. Location of Brake Shoe Inside Base**

### Installation

1. Look at the back of the new brake shoe and notice the circular flange (Figure 48).
2. Look into the base and notice the extension of the locking handle that projects into the base. The circular flange on the brake shoe fits onto this extension.



**Figure 47. Brake Shoe Removed from Base**



**Figure 48. Back Side of Brake Shoe**

3. Place the brake shoe into the base and engage it on the extension. Make sure it seats fully. The brake shoe should be oriented horizontally in the base so that its curve matches the curve of the column.
4. Examine the lifting column and make sure it is fully coated with grease.

5. If the column is dry, cover it with a generous coat of white lithium grease (available at your local hardware store under the name “Lubriplate”). **Note:** A spray lubricant can be used, but Lubriplate tends to last longer
6. Place the column assembly back into the base. You may have to jiggle it a bit to get it to go all the way in.
7. Pump the table up a few strokes.
8. Rotate the locking handle fully clockwise to lock it.
9. With the locking handle fully locked, try to rotate the column. The brake should hold and the column should not move.
10. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup on Page 7*).

## Rubber Grommet

P/N 853011

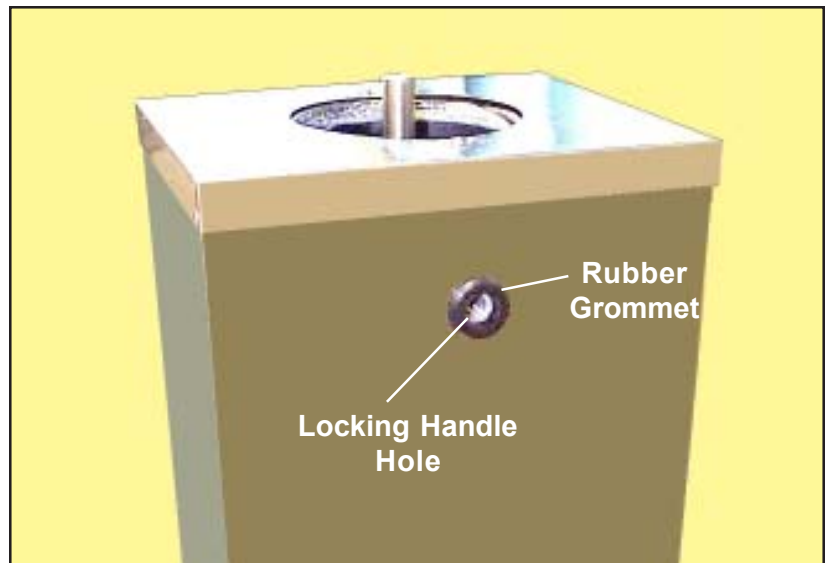
## Tools and Supplies Required

- Two 1/2-in. wrenches (at least one must be open-end)
- Flat-blade screwdriver
- White lithium grease (Lubriplate)

## Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Remove the brake shoe. Refer to *Brake Shoe - Removal*, on *Page 42* and perform *Steps 2* through *5*.
3. Turn the locking handle counter-clockwise until it falls free (Figure 43).
4. With a flat-blade screwdriver, pry the existing rubber grommet out (Figure 49).



**Figure 49. Rubber Grommet**

### **Installation**

1. Install the new rubber grommet into its opening.
2. Coat the threads on the locking handle with white lithium grease (available at your local hardware store under the name "Lubriplate").
3. Replace the brake shoe. Refer to *Brake Shoe - Installation*, on *Page 43* and perform *Steps 1* through *6*.
4. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on *Page 7*).

## Hydraulic Pump

P/N 200408

### Tools and Supplies Required

- Flat-blade screwdriver
- Two 1/2-in. wrenches (at least one must be open-end)
- Small hammer or mallet
- Drift pin (1/16-in. dia. max.)
- Tape (any kind)

### Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Press the down-pedal (Figure 23) and lower the table as far as it will go.
3. Rotate the locking handle about one to one-and-one half turns, counter-clockwise. **Note:** Do not turn the handle too far. If the handle is unscrewed too far, the brake shoe can become detached and fall to the bottom. It is not easy to retrieve!

**CAUTION:** The base is heavy. We recommend that laying it down be done by at least two people.

4. Lay the hydraulic base on its back with the pedals facing up (Figure 50).
5. With a flat-blade screwdriver, remove the four drip pan screws and remove the drip pan.
6. With a 1/16-in. drift pin and a small hammer, drift the roll pin out of the clevis pin at “**A**” (Figure 51).  
**Note:** Be careful, the roll pin is small and easy to lose.  
**Note:** DO NOT remove the roll pin at “**B**”.
7. Remove the clevis pin to detach the plunger from the two pedal links. **Note:** If the clevis pin is difficult to remove, use the drift pin to punch it out.

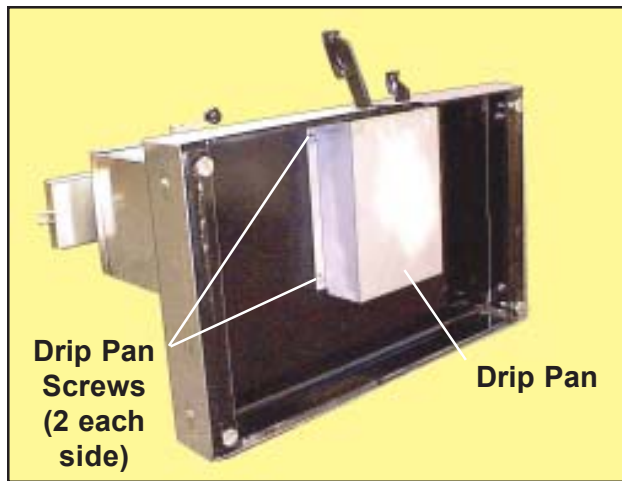


Figure 50. Drip Pan and Screws

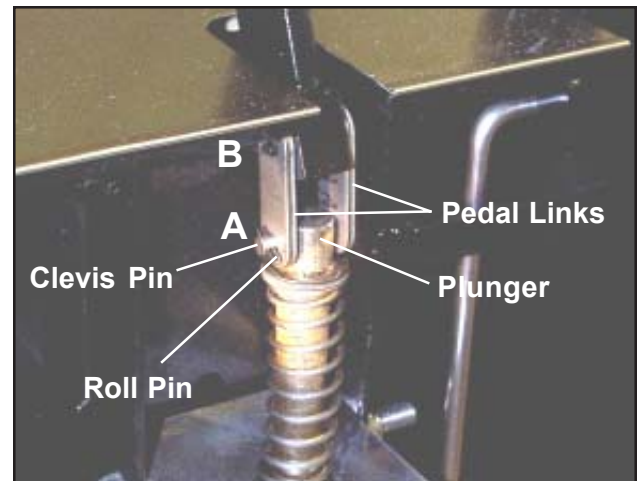


Figure 51. Roll Pin and Clevis Pin

8. With two 1/2-in. wrenches, remove the bolt, washer and nut that hold the pump body to the base frame (Figure 52).  
**Note:** At least one of the wrenches must be an open-end because of interference between the nut and the pedal linkage.
9. With a 1/2-in. wrench, remove the two bolts at the bottom of the pump body.
10. Pull the complete hydraulic pump out of the base (Figure 53).

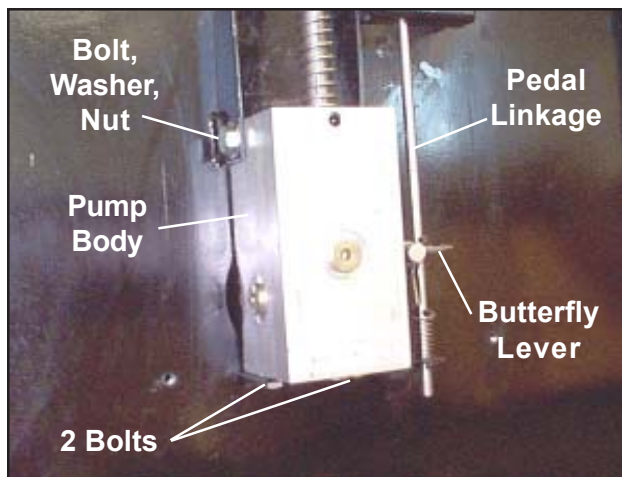


Figure 52. Pump Mounting Bolts



Figure 53. Hydraulic Pump Removed from Base

## Installation

1. Temporarily, tape the butterfly lever to the pedal linkage (Figure 52). This keeps it out of the way and safe from damage while you install the pump.
2. Place the hydraulic pump into the base.
3. Secure the hydraulic pump to the base by installing the bolt, washer and nut removed earlier (Figure 52). DO NOT tighten the nut. **Note:** Installing this bolt at this time supports the pump while you finish the installation.
4. Loosely install the two bolts into the bottom of the pump body. **Note:** If you find it difficult to align the pump body so that the two bolts enter their holes easily, try rotating the locking handle about one-half turn counter-clockwise. This eliminates the pressure between the top of the hydraulic pump and the lifting column inside the base, and allows the pump to align itself.
5. When the upper bolt and the two bottom bolts are all in place, tighten all three to secure the pump to the base.
6. Remove the tape from the butterfly lever and make sure the lever moves freely.
7. Connect both pedal links to the plunger with the clevis pin (Figure 51).
8. Secure the clevis pin by driving the roll pin through the hole in the clevis pin. **Note:** If you lose the roll pin, it is faster and less expensive to obtain a new one at your local hardware store. The pin is .094-in. in diameter, and .375-in. long. In an emergency, a similar diameter cotter pin will work just fine. To order a new roll pin from SSCI, request P/N 854392.
9. Replace the drip pan and secure it with the four screws.
10. Manually operate the down-pedal and make sure the butterfly lever operates correctly.
11. Stand the base right-side up.
12. Pump the up-pedal several times and make sure the table rises.

13. Press the down-pedal and make sure the table lowers as it should.
14. Turn the locking handle fully clockwise to lock the base in the bottom position.
15. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on *Page 7*).

## **Drip Pan      Tool Required**

**P/N 604057**

- Flat-blade screwdriver

### **Removal**

**CAUTION:** The base and table top assembly is heavy. We recommend that laying it down be done by at least two people.

1. Lay the hydraulic base and table top assembly on its back with the pedals facing up (Figure 50).
2. With a flat-blade screwdriver, remove the four drip pan screws and remove the drip pan.

### **Installation**

1. Install the new drip pan and secure it with the four screws.
2. Stand the base and table top assembly rightside-up.



## Pedal Links

P/N 604156

## Tools and Supplies Required

- Flat-blade screwdriver
- Two 1/2-in. wrenches (at least one must be open-end)
- Small hammer or mallet
- Drift pin (1/16-in. dia. max.)

## Removal

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).

**CAUTION:** The base is heavy. We recommend that laying it down be done by at least two people.

2. Lay the hydraulic base on its back with the pedals facing up (Figure 50).
3. With a flat-blade screwdriver, remove the four drip pan screws and remove the drip pan.
4. With a 1/16-in. drift pin and a small hammer, drift the roll pins out of the clevis pins at “A” and “B” (Figure 54).

**Note:** Be careful, the roll pins are small and easy to lose.

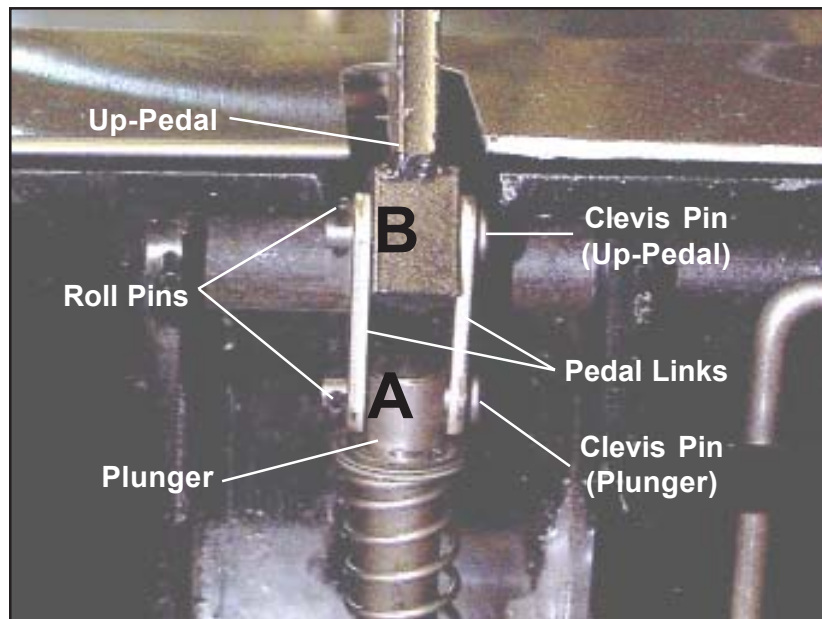


Figure 54. Pedal Links with Clevis Pins and Roll Pins



5. Remove clevis pin at “**A**” to detach the two pedal links from the plunger. **Note:** If the clevis pin is difficult to remove, use the drift pin to punch it out.
6. Remove clevis pin at “**B**” to detach the two pedal links from the up-pedal. **Note:** If the clevis pin is difficult to remove, use the drift pin to punch it out. Both pedal links are now free.

## Installation

1. Connect both new pedal links to the up-pedal (“**B**”) with a clevis pin (Figure 54).
2. Secure the clevis pin by driving the roll pin through the hole in the clevis pin. **Note:** If you lose the roll pin, it is faster and less expensive to obtain a new one at your local hardware store. The pin is .094-in. in diameter, and .375-in. long. In an emergency, a similar diameter cotter pin will work just fine. To order a new roll pin from SSCI, request P/N 854392.
3. Connect both new pedal links to the plunger (“**A**”) with a clevis pin.
4. Secure the clevis pin by driving the roll pin through the hole in the clevis pin. The **Note:** in *Step 2* applies to this pin also.
5. Replace the drip pan and secure it with the four screws.
6. Manually operate the down-pedal and make sure the butterfly lever operates correctly.
7. Stand the base rightside-up.
8. Pump the up-pedal several times and make sure the table rises.
9. Lower the table to its bottom position.
10. Turn the locking handle fully clockwise to lock the base in the bottom position.
11. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on Page 7).

## Adding Oil to the Hydraulic Pump

Inspecting the hydraulic pump and/or adding oil requires removal of the pump from the base.

### Tools and Supplies Required

- Two 1/2-in. wrenches (at least one must be open-end)
- Flat-blade screwdriver
- Small hammer or mallet
- Drift pin (1/16-in. dia. max.)
- Syringe
- Hydraulic oil, Citgo AW32

### Removal of the Hydraulic Pump

**CAUTION:** The table top is heavy. We recommend that removal of the top from the base be done by at least two people.

1. Remove the table top (refer to the instructions supplied with your table top).
2. Remove the hydraulic pump from the base. Refer to *Hydraulic Pump - Removal*, on Page 46 and perform Steps 2 through 10.

### Inspection and Filling

1. Carefully examine the hydraulic pump for evidence of leaks. If any are found, call SSCI for repairs or a replacement pump. For a new pump, order P/N 200408.



**Figure 55. Oil Fill Port on the Hydraulic Pump**

2. If the pump is free of leaks, pull the rubber stopper out of the hydraulic oil fill port (Figure 55).

**CAUTION:** The use of an incorrect hydraulic oil can destroy your hydraulic pump. Make sure to use only the oil specified in these instructions.

3. With a syringe, fill the pump with hydraulic oil (Citgo AW32 - obtain from your local hardware store). The maximum capacity of the pump is 10 oz.
4. Replace the rubber stopper into the fill port.

### **Re-installation**

1. Re-install the hydraulic pump into the base. Refer to *Hydraulic Pump - Installation*, on *Page 48* and perform *Steps 1* through *10*.
2. Install the table top (refer to the instructions supplied with your table top, or *Chapter 2 - Installation and Setup* on *Page 7*).

### Notes:

[illegible]

# Chapter 5 - Troubleshooting

## General

The following procedures will help you fix most of the problems that you might encounter with the SSCI Imperial Hydraulic Table Base. If necessary, please feel free to call SSCI Customer Service at (847) 537-9320, ext. 3518 (in Illinois) or 1-800-323-7366. Our experienced technical support personnel will be glad to help you.

For more information on contacting SSCI, refer to *Contact Information* on Page 5.

Part numbers for available replacement parts are shown in the table on Page 25. To order replacement parts, refer to *Parts Ordering Procedure* on Page 26.

Possible problems are listed below along with their page references:

- **The table will not raise.** ----- Page 57
- **The table lowers without apparent cause.** ----- Page 58
- **The table is hard to tilt.** ----- Page 59
- **The table will not hold a tilt angle.** ----- Page 60
- **The table raises but requires too much pumping.** ----- Page 61
- **The table rotates even when the locking handle is tight.** ----- Page 62

Page numbers shown in the *Remedial Action* sections direct you to step-by-step directions on replacing specific parts. Refer to *Chapter 4, Repairs and Replacements*.

If your hydraulic base must be returned to SSCI for repairs, refer to *Returning the Hydraulic Table Base for Repairs* on Page 56 for directions.

## Returning the Hydraulic Table Base for Repairs

### RMA Numbers

If your base should require return to SSCI for repairs, discuss the problem with one of our Customer Service Representatives. Obtain an RMA number (Return Merchandise Authorization) from him before shipping the unit back. **Note:** SSCI will *not* accept merchandise returned without an RMA number.

### Packing and Shipment

If you were able to keep the shipping carton, repack the base into the carton. Shipping the base securely mounted to a pallet would be a good idea.

If the shipping carton is not available, package the base securely in a suitable container. Ship documentation with the base including:

- Destination
- RMA Number
- Your name, company and address
- Your telephone number
- A description of the reason for returning the base

## PROBLEM 1: The table will not raise.

### Remedial Action

**First:** Make sure the locking handle is fully released (turn counter-clockwise). Refer to *Raising the Table* on Page 21.

**Second:** You may be trying to lift too heavy a load on the table. The load limit on the hydraulic base is 300 pounds (136 kg). Refer to the **WARNING** under *Raising the Table* on Page 21.

**Third:** Make sure there is nothing blocking the up-pedal.

**Fourth:** On rare occasions, a blockage can occur in the hydraulic mechanism valving. Try raising the table while simultaneously depressing the down-pedal. This will usually flush the blockage out of the system.

**Fifth:** The hydraulic pump may be low on oil and/or leaking. Refer to *Hydraulic Pump - Removal* on Page 46 and perform Steps 1 through 5. Check for oil in the drip pan. A substantial amount of oil in the drip pan indicates a possible leak in the hydraulic pump. (A few drops of oil is not unusual, but there should not be enough to actually “pool”.) Continue on to Steps 6 through 10 to remove the hydraulic pump assembly, and inspect the pump for evidence of leaks.

**A.** If leaks are found, call SSCI for a replacement pump (P/N 200408). Refer to *Hydraulic Pump - Removal* on Page 46 for replacement instructions.

**B.** If no leaks are found, the pump may be low on oil. Refer to *Adding Oil to the Hydraulic Pump* on Page 52 for instructions on filling the pump.

## PROBLEM 2: The table lowers without apparent cause.

### Remedial Action

**First:** Make sure the locking handle is locked (turn fully clockwise). Refer to *Raising the Table* on Page 21.

**Second:** You may be trying to lift too heavy a load on the table. The load limit on the hydraulic base is 300 pounds (136 kg). Refer to the **WARNING** under *Raising the Table* on Page 21.

**Third:** The hydraulic pump may be low on oil and/or leaking. Refer to *Hydraulic Pump - Removal* on Page 46 and perform Steps 1 through 5. Check for oil in the drip pan. A substantial amount of oil in the drip pan indicates a possible leak in the hydraulic pump. (A few drops of oil is not unusual, but there should not be enough to actually “pool”.) Continue on to Steps 6 through 10 to remove the hydraulic pump assembly, and inspect the pump for evidence of leaks.

**A.** If leaks are found, call SSCI for a replacement pump (P/N 200408). Refer to *Hydraulic Pump - Removal* on Page 46 for replacement instructions.

**B.** If no leaks are found, the pump may be low on oil. Refer to *Adding Oil to the Hydraulic Pump* on Page 52 for instructions on filling the pump.

**Fourth:** If your table has been in service for a long time, the brake shoe may be worn. For a replacement brake shoe, call SSCI and order P/N 206850. To replace the brake shoe, refer to *Brake Shoe* on Page 42.



## PROBLEM 3: The table is hard to tilt.

### Remedial Action

**First:** Make sure the tilt lock handle is fully released (turn counter-clockwise). Refer to *Tilting the Table* on Page 22.

**Second:** You may be trying to lift too heavy a load on the table. The load limit on the hydraulic base is 300 pounds (136 kg). Refer to the **WARNING** under *Raising the Table* on Page 21.

**Third:** The bolt and nut holding the lower end of the lock bar may be over-tightened. Refer to Figure 30 on Page 29, and slightly loosen the nut.

**Fourth:** The pivot shaft may be mis-aligned. Refer to Figure 28 on Page 28 and slightly loosen the retaining screw, and loosen the tilt lock handle. Make sure that the spacer is properly seated in its mounting hole. Now, tilt the table up and down. If the pivot shaft is mis-aligned, this will allow it to re-adjust itself. Re-tighten the screw and the tilt lock handle.

**Fifth:** Refer to Figures 36 and 37 on Page 34. Are the retainer rings on both ends of the pivot rod properly in place? Is the pivot rod in place? If retainer rings are missing or damaged, call SSCI and order two replacement rings (P/N 852106). If the pivot rod is out of place, try to drift it back into place with a small hammer and drift pin or punch, then secure it in place with the two retainer rings.

**Sixth:** Has the table or base been subject to a heavy blow recently that may have damaged the unit? Refer to Figure 32 on Page 31 and check the tilt mechanism. Is it bent or in any way mis-aligned. For a replacement tilt mechanism, call SSCI and order P/N 207412. To replace the tilt mechanism, refer to *Tilt Mechanism, Complete* on Page 33.

## PROBLEM 4: The table will not hold a tilt angle.

### Remedial Action

**First:** Make sure the tilt lock handle is fully tightened (turn clockwise). Refer to *Tilting the Table* on Page 22.

**Second:** You may be trying to lift too heavy a load on the table. The load limit on the hydraulic base is 300 pounds (136 kg). Refer to the **WARNING** under *Raising the Table* on Page 21.

**Third:** The lock bar pad in the pivot shaft may be missing or damaged. Refer to *Lock Bar Pad - Removal* on Page 31 and perform *Steps 1* through *5*. Make sure the lock bar pad is present and not damaged or deformed. To order a new lock bar pad, call SSCI and order P/N 752005. To replace the pad, refer to the manual section noted above.

## PROBLEM 5: The table raises but requires too much pumping.

### Remedial Action

**First:** Make sure the locking handle is fully released (turn counter-clockwise). Refer to *Raising the Table* on Page 21.

**Second:** You may be trying to lift too heavy a load on the table. The load limit on the hydraulic base is 300 pounds (136 kg). Refer to the **WARNING** under *Raising the Table* on Page 21.

**Third:** Make sure there is nothing blocking the up-pedal.

**Fourth:** The hydraulic pump may be low on oil and/or leaking. Refer to *Hydraulic Pump - Removal* on Page 46 and perform Steps 1 through 5. Check for oil in the drip pan. A substantial amount of oil in the drip pan indicates a possible leak in the hydraulic pump. (A few drops of oil is not unusual, but there should not be enough to actually “pool”.) Continue on to Steps 6 through 10 to remove the hydraulic pump assembly, and inspect the pump for evidence of leaks.

**A.** If leaks are found, call SSCI for a replacement pump (P/N 200408). Refer to *Hydraulic Pump - Removal* on Page 46 for replacement instructions.

**B.** If no leaks are found, the pump may be low on oil. Refer to *Adding Oil to the Hydraulic Pump* on Page 52 for instructions on filling the pump.

## **PROBLEM 6: The table rotates even when the locking handle is tight.**

### **Remedial Action**

**First:** Make sure the locking handle is locked (turn fully clockwise). Refer to *Raising the Table* on Page 21.

**Second:** If your table has been in service for a long time, the brake shoe may be worn. For a replacement brake shoe, call SSCI and order P/N 206850. To replace the brake shoe, refer to *Brake Shoe* on Page 42.

Inside back cover

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**Refer to Chapter 2 of this  
manual for set-up  
instructions.**



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