

AMSCO Maintenance Manual



**AMSCO ORTHOGRAPHIC
ORTHOPEDIC AND FRACTURE TABLE**

(2/88)

P-757230-001

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SUMMARY OF SAFETY PRECAUTIONS

The following are personnel (WARNINGS) and equipment (CAUTIONS) safety precautions to be observed when operating or servicing this unit. This is a summary listing of safety precautions appearing in the text. Carefully read them before proceeding to use or service the unit. The precautions are repeated where applicable throughout the manual. Observance of these safety precautions will minimize the risk of personal injury or the possible use of improper maintenance methods which may damage the unit or render it unsafe. It is important to understand that these precautions are not exhaustive. AMSCO could not possibly know, evaluate and advise maintenance departments of all conceivable ways in which maintenance might be done or the possible hazardous consequences of each way.

The operation and maintenance procedures recommended by AMSCO are described in this manual. Only these recommended maintenance procedures should be followed.

WARNING: REPAIRS AND ADJUSTMENTS SHOULD BE ATTEMPTED ONLY BY EXPERIENCED TECHNICIANS FULLY ACQUAINTED WITH THIS EQUIPMENT. USE OF INEXPERIENCED, UNQUALIFIED PERSONS TO WORK ON THE EQUIPMENT OR INSTALLATION OF UNAUTHORIZED PARTS COULD CAUSE INJURY OR RESULT IN COSTLY DAMAGE.

WARNING: THE CASTERS MUST BE CLEAN AND IN CONTACT WITH THE FLOOR AT ALL TIMES FOR THE TABLE TO BE ELECTRICALLY CONDUCTIVE.

WARNING: BE SURE TO HOLD THE TABLETOP IN POSITION WHILE LOOSENING THE T-HANDLE. UNEVEN WEIGHT DISTRIBUTION MAY FORCE THE TABLETOP INTO TREDELENBURG MORE QUICKLY THAN ANTICIPATED.

WARNING: AFTER RETURNING THE TABLETOP TO HORIZONTAL, BE SURE TO SECURELY TIGHTEN THE LOCKING HANDLE. CHECK THAT TABLE IS LOCKED IN POSITION BY PUSHING DOWN ON THE HEAD END.

CAUTION: When using cleaners such as *AMSCO STAINLESS STEEL CLEANER & POLISH* or *AMSCO Pry Cleaner*, rub in a back-and-forth motion (in the same direction as the surface grain). Do not rub with a rotary or circular motion. Do not use these cleaners on painted surfaces. Follow directions on the containers.

CAUTION: Do not overtighten the adjusting screws. Overtightening the screws may require their untightening and retightening from the beginning.

CAUTION: Do not force the plate off in such a way that the pins may be bent or broken.

CAUTION: Be careful not to drop the nuts into the sump.

SECTION 1

GENERAL INFORMATION

The TECH DATA sheet included in this section contains data relating to the principal descriptive and identifying characteristics of the Orthographic Table. It describes and illustrates general concepts of the equipment, its purpose, capabilities, limitations, and technical specifications.



AMSCO

AMSCO ORTHOGRAPHIC
ORTHOPEDIC AND FRACTURE TABLE

TECH DATA

SD-110R6
(9/83)

APPLICATION

With the AMSCO Orthographic Table, excellent positioning of a patient for reconstructive or reparative orthopedic procedures is assured. The table permits concurrent radiography and is fully compatible with most mobile image-intensification systems for performing closed reductions. It folds into a neat, compact package ... 21 3/4 x 29 1/2 x 41 1/2 inches (552 x 749 x 1054 mm) ... to eliminate problem of temporarily storing this professional equipment when not in use.

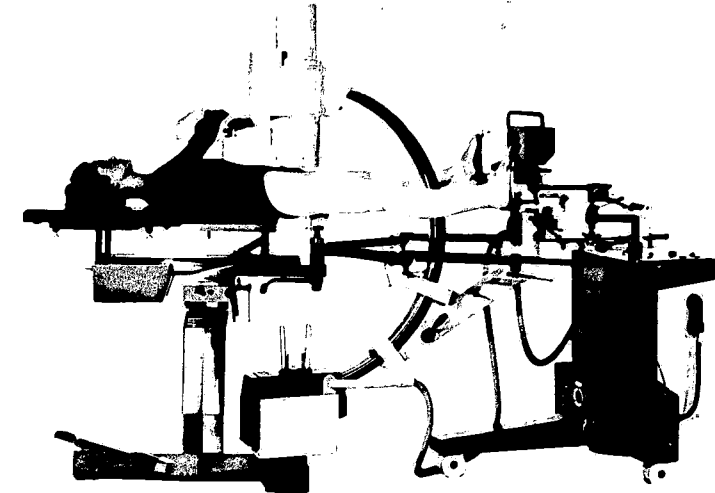
DESIGN AND CONSTRUCTION

General. The Table and accessories comply with the *Radiation Control for Health and Safety Act* of October 18, 1968.

Base is cast aluminum, fitted with a clean-lined, formed, stainless-steel cover that's easy to clean. The base affords adequate, comfortable toe space all around and there's sufficient space beneath to receive the support blades of a Mayo-type instrument stand. The cover also features removable plates at each end for access to the casters. The head-end of the base contains a chromium-plated pedal, with nonslip pad, by which the tabletop is raised and lowered.

The base also has electrically conductive swivel casters, and quick-acting, self-adjusting floor locks. A foot pedal, at one side of the base, locks the floor locks in place; the front wheels are fixed in a fore-aft position for easy steerability.

Pedestal. Main components are two telescoping guide columns and hydraulic cylinder, which raise and lower the tabletop. The guide columns are shrouded to match the base. The shrouds move with the columns to keep them protected at all times from entrance of foreign matter.



(X-ray intensification unit furnished by others)
(Typical Only — Some Details May Vary)

Superstructure. This component, head-end counterbalanced for stability, supports the tabletop module and houses the gear mechanism required to position both the top and the superstructure. The underside receives a vertical tube properly located for Kuentschner method lower leg-support and other accessories.

Stainless-steel rails are provided on the superstructure to support movement of the back section of the tabletop. Standard side rails accommodate optional accessories. See separate product literature.

The foot-end of the superstructure is fitted to support and lock the traction arms in position and includes removable offset sacral rest and perineal post.

Tabletop Module comprises back section and traction arms, and it features quick-acting Trendelenburg and Reverse Trendelenburg. The top is removable for cleaning.

THE SELECTIONS CHECKED BELOW APPLY TO THIS EQUIPMENT

Optional Accessories

- ☐ Armboard
- ☐ One-inch Pad for Armboard
- ☐ Clark Socket (one pair)
- ☐ Leg Extension
- ☐ Ether Screen
- ☐ Kraus Arm Support
- ☐ Lateral Cassette Holder
- ☐ Arm Traction Assembly
- ☐ AP Cassette Tunnel
- ☐ Weinberger Hand Traction Apparatus
- ☐ Seat and Head Section
- ☐ Lower Leg Support
- ☐ Knee Support
- ☐ Leg Holder

Item No. _____
Location(s) _____

Even with a 300-pound (136-kg) load evenly distributed on the tabletop, very few strokes of the foot pedal will raise the tabletop smoothly, without binding and jerking. The remaining foot pedals are used to (1) positively immobilize the table and (2) prepare table for movement from one location to another.

The back section is 33½ inches (851 mm) long x 11¼ inches (298 mm) wide x 1¼ inches (32 mm) thick (without extensions). When fully extended, the back section is cantilevered to significantly aid upper extremity radiography. A crank handle positions the back section longitudinally; another hand crank also tilts it laterally.

The entire back section is designed for quick removal from and return to the table, and it includes an electrically conductive-covered foam pad that is easy to clean.

Two extension boards are furnished for the back section. Each board is 24½ inches (622 mm) long x 4¾ inches (121 mm) wide x 1¼ inches (32 mm) thick ... padded to match the back section. The extensions add comfort to the positioning of obese patients.

The back section has full-length stainless-steel rails for attaching the extensions and other accessories. The section may be positioned at two different heights.

Traction arms, supported at the foot-end of the superstructure, lock in the desired positions by a handle-actuated pair of eccentric cams. Each arm is three-sectional construction for outstanding lower extremity positioning flexibility. The first and third sections of each arm are 17½ inches (444 mm) long x 1½ inches (48 mm) diameter. The middle section is 5 inches (127 mm) long. The latter acts as a universal joint for the first and third sections, permitting the third section to be positioned in the vertical plane above and below horizontal. The first and third sections will move laterally and independently, left or right of center.

Sacral rests (adult and child), also attached to the foot-end of the superstructure, are height and width adjustable across the Table.

OTHER FEATURES

Other features include the following:

- Intramedullary Nailing Device — includes two padded pieces which support the patient in a lateral position during nailing procedures. It also includes a pad to support the unaffected leg.
- Ratchet Type Traction Unit with Foot Plates — includes a universal ball-joint socket which permits exact angulation ... provides positive locking in any position.

PERFORMANCE CAPABILITIES

When operated with a 300-pound (136-kg) load, the table shall be positioned as follows without perceptible binding or jerking, and without settling after the positions are obtained.

Table Component	Position Starting With Superstructure Horizontal	Range
Top and Superstructure	Raise — Lower Trendelenburg (head down) Reverse Trendelenburg (feet down) Tilt to Right Tilt to Left	To any point within 30 to 44 inches (762 to 1118 mm) above the floor 0 to 30° 0 to 7° 0 to 30° 0 to 30°
Traction Arms	Extend Rotate	39½ inches (1000 mm) 0 to 160°
Back Section	Lateral	20 inches (508 mm)

OPTIONAL ACCESSORIES

General. A choice of six general accessories is available: armboard; one-inch pad for armboard; one pair of Clark sockets; leg extension; ether screen with ball joint and includes Clark socket; Kraus lateral arm support with Clark socket.

X-ray Equipment. A choice of two X-ray accessories is available: lateral cassette holder; cassette tunnel for A-P radiography.

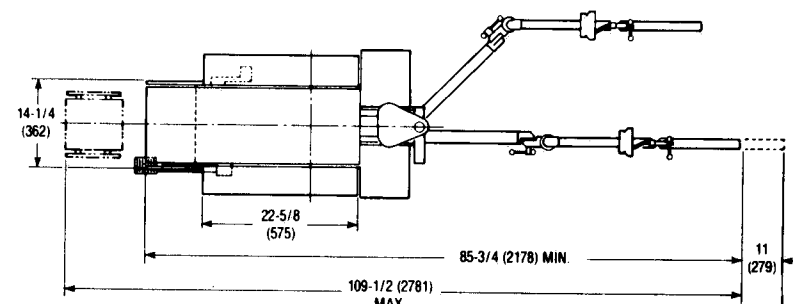
Upper Extremity Group. A choice of two upper extremity group accessories is available: Weinberger hand-traction apparatus with ratchet type unit; arm traction assembly that includes support arm, padded counter traction post, and upper arm support that requires pair of Clark sockets.

Lumbar Spine. A lumbar spine accessory is available: seat and head section with Goldthwaite Irons.

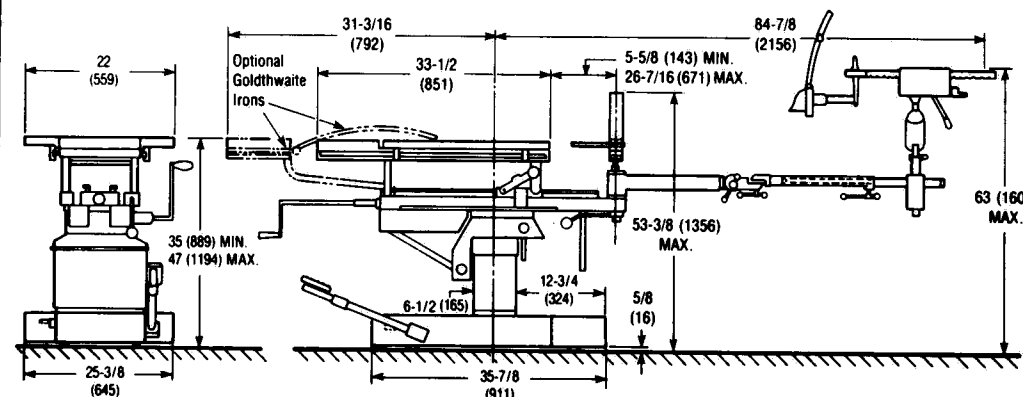
Lower Extremity Group. A choice of three lower extremity group accessories is available: lower leg support for use with padded perineal post; knee support; leg holder.

MATERIAL SPECIFICATIONS

Materials not definitely specified herein are the best quality routinely employed for the purpose in the industry. They are free from defects that might affect the safety, serviceability and appearance of the finished product.



PLAN VIEW



END VIEW

FRONT VIEW

DIMENSIONS ARE INCHES (MILLIMETRES) — DRAWING IS NOT TO SCALE

Approximate weight: 575 lbs (261 kg)

This print is for guidance when planning space and utility services. Actual installation prints may be obtained from any AMSCO office or representative.

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SECTION 2

OPERATING INSTRUCTIONS

2.1 GENERAL

The following instructions are intended to guide the serviceman: (1) When instructing operators in techniques designed to ensure optimum table performance, if followed carefully; and (2) when verifying the validity of operator complaints. See Paragraph 4-5 TROUBLESHOOTING, if the table is not operating properly. Refer to Section 1, GENERAL INFORMATION, for capabilities of the equipment.

NOTE: If there is a discrepancy between the operating instructions in this manual and those in the Equipment Instructions, follow the Equipment Instructions.

2.2 PRELIMINARY SET-UP

WARNING: CASTERS MUST BE CLEAN AND IN CONTACT WITH THE FLOOR AT ALL TIMES FOR THE TABLE TO BE ELECTRICALLY CONDUCTIVE.

1. Roll table to desired location.

2. **For H-Base Unit:** Fully depress Anti-swivel Locking Pedal to lock foot-end casters in an anti-swivel position. Fully depress Floor Lock Pedal to lock all casters to the floor.

For T-Base Unit: Fully depress Lock/Unlock pedal (to horizontal). This will lock table in position by simultaneously transferring table weight from head-end casters to floor locks. Table will remain locked (immobile) until pedal is released (to vertical). Floor locks are self-adjusting. It is not necessary to manually level table to compensate for most uneven floors.

NOTE: Your table is furnished with electrically conductive floor locks and casters. Accumulation of foreign materials on their surfaces and wear can reduce their conductive properties. Routine testing for conductivity should be performed.

3. Fill table with hydraulic oil (see Paragraph 3.2).

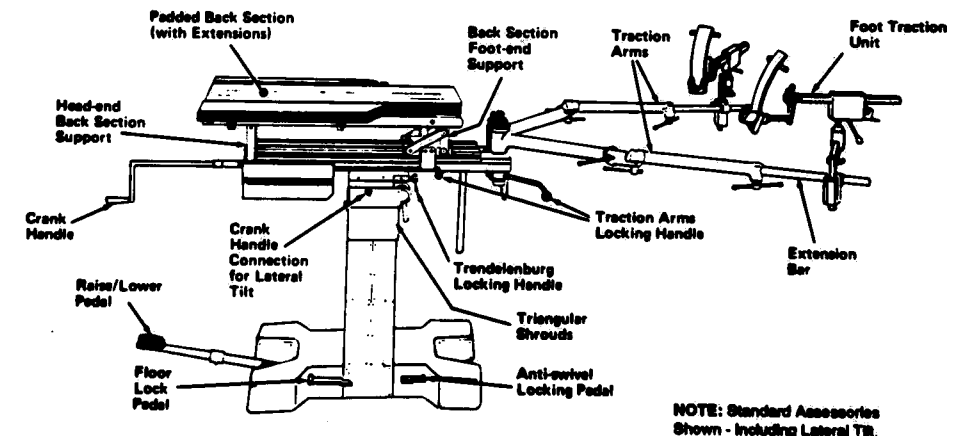


Figure 2-1. ORTHOGRAPHIC TABLE (H-BASE)
STANDARD ACCESSORIES SHOWN - Including Lateral Tilt.

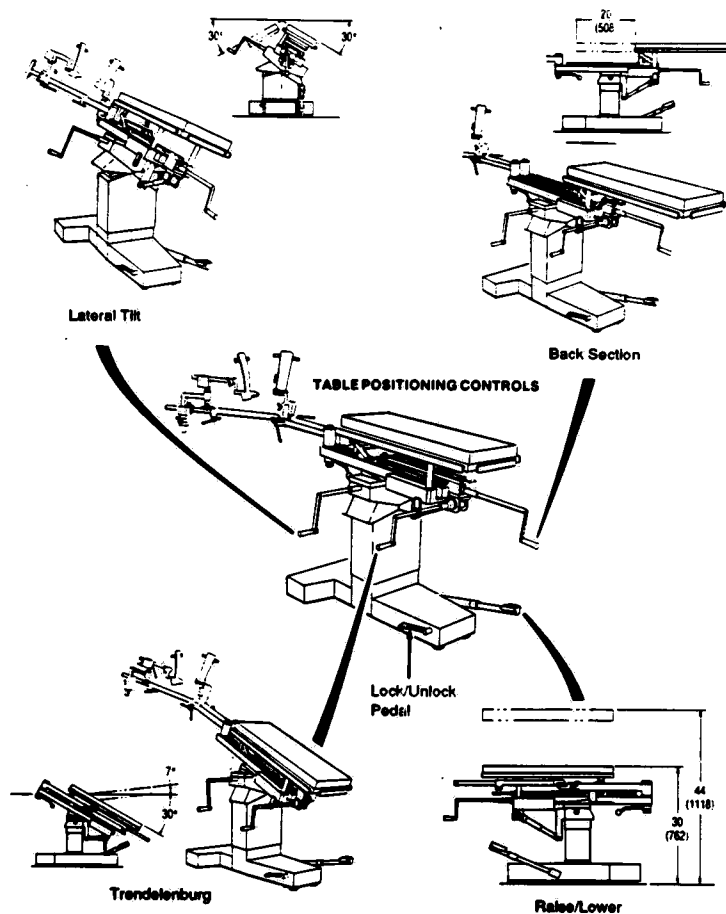


Figure 2-2. ORTHOGRAPHIC TABLE (T-BASE)

2.3 PREPARING TABLE FOR USE

At this time table can be left in compact (42x22x30) storage position or be prepared for use as follows:

1. Position Traction Arms (See Figure 2-3).

Each traction arm consists of three sections and removable extension bar. First and third sections are coupled by second (joint) section, which consists of an adjustable, universal lock. First section is adjustable laterally through an arc of approximately 0-160 degrees. Traction arm may be positioned and locked at any point within that range.

Each traction arm includes a removable extension bar with a keyed slot to accept foot traction unit (furnished). Complete traction arm assembly is locked by cam actuators beneath support bracket at foot-end of table.

- Place Traction Arm Locking Handle in unlocked position.
- Swing traction arm to desired position.
- Repeat above steps for other traction arm.
- Adjust traction arms for desired procedure.
- Place Traction Arm Locking Handle in locked position.

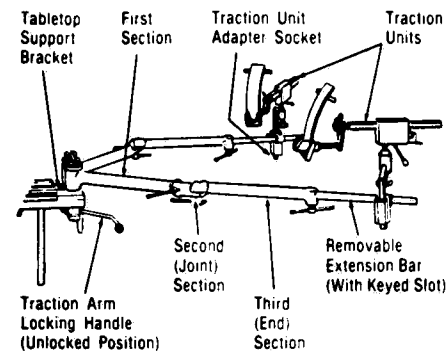


Figure 2-3. TRACTION ARMS.

2. Attaching Back Section, Sliding Arm Supports and Offset Bar (See Figure 2-4).

a. Padded back section is supported at foot-end of tabletop by a collapsible support assembly and at head-end of tabletop by an H-frame support. Foot-end support lifts into position and is secured by tightening knobs on each side of the support. Head-end support posts set in tabletop frame.

b. Padded back section is easily added to, or removed from, tabletop by pulling Quick Release holding pins together. When installing back section, be sure holding pins are in line with holes in back section.

c. Two padded sliding arm supports are furnished, each with two U-shaped clamps for attachment to back section side rails. Slide clamps along rails to desired position and tighten wing screws against rails.

d. Offset bar is set in place by inserting two vertical posts into holes provided on Traction Arm Pivot Assemblies. Sacral rest and perineal post are placed over bar and secured by tightening a wing screw.

2.4 TABLE POSITIONING (Figures 2-2 and 2-5)

1. RAISE/LOWER

- Engage floor locks.
- Pump Raise/Lower pedal until tabletop reaches desired height.
- Release pedal. Pedal will return to maximum height closing hydraulic circuit.

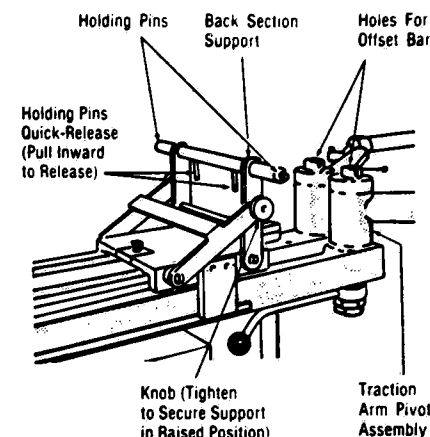


Figure 2-4. BACK SECTION FOOT-END SUPPORT.

d. To lower tabletop, lift pedal and hold.

e. Tabletop will descend until pedal is released.

2. TRENDLENBURG

a. T-Base Units:

- Engage floor locks.
- Attach and lock crank handle to connection on left side of tabletop at head end.
- Turn handle clockwise to achieve Reverse Trendelenburg; counterclockwise for Trendelenburg.

b. H-Base Units (Figure 2-5):

WARNING: BE SURE TO HOLD THE TABLETOP IN POSITION WHILE LOOSENING THE T-HANDLE. UNEVEN WEIGHT DISTRIBUTION MAY FORCE THE TABLETOP INTO TRENDLENBURG MORE QUICKLY THAN ANTICIPATED.

- Loosen the T-handle at the top (foot end) of the pedestal, beneath the tabletop.
- Tilt the tabletop to the desired degree of Trendelenburg, then securely tighten the handle. Maximum tilt is 35 degrees from horizontal. The tabletop may be positioned and locked at any point within the range.

WARNING: AFTER RETURNING THE TABLETOP TO HORIZONTAL, BE SURE TO SECURELY TIGHTEN THE LOCKING HANDLE. CHECK THAT TABLE IS LOCKED IN POSITION BY PUSHING DOWN ON THE HEAD END.

3. LATERAL TILT (Optional For H-Base)

- Engage floor locks.
- Attach and lock crank handle to connection on either side of tabletop.
- Turn handle clockwise to move tabletop away from operator; counterclockwise to move tabletop towards operator.

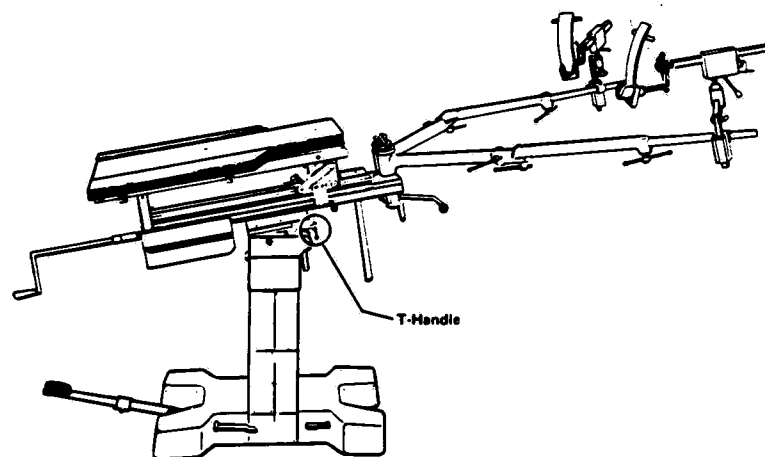


Figure 2-5. TABLETOP IN TRENDELENBURG (H-BASE).

4. BACK SECTION MOVEMENT

- Engage floor locks.
- Attach and lock crank handle to connection at head-end of table.
- Turn handle clockwise to extend tabletop coverage; counterclockwise to lessen coverage.

SECTION 3

HYDRAULIC SYSTEM

3.1 GENERAL DESCRIPTION

1. The return stroke of the RAISE/LOWER pedal draws oil from the sump, through a strainer, into the pump housing . . . the oil is held in this cavity by a ball check valve.

2. Depressing the pedal causes a piston to compress the trapped oil and pressurize it, forcing it through a second ball check valve and into the hydraulic system, while the pedal stroke is completed and oil is depleted from the housing.

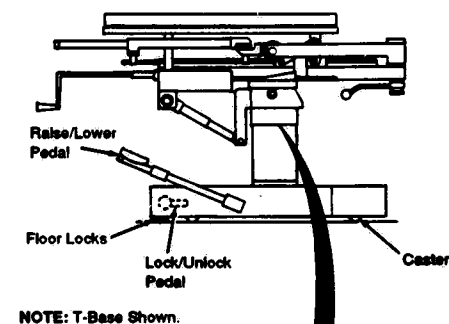
3. The upward movement of the pedal (return stroke) will again fill the pump cavity. The oil entering the hydraulic system, under pressure, will cause the hydraulic lift cylinder to raise until the maximum height is obtained. Once maximum height is obtained, the system cannot accept additional oil, thus it is returned to the sump through a spring-loaded relief valve. This valve is at the top of the upper lift cylinder.

4. Lifting up on the RAISE/LOWER pedal will open a valve to transfer oil from the lift cylinder to the sump. This lowers the tabletop. Removing pressure from under the pedal will cause tabletop to immediately stop.

e. Once sump is filled, remove filler tube and slowly raise table to maximum height by pumping Raise/Lower pedal.

f. At maximum height pump a few more stroke to expel air from system.

g. Lower table (lifting Raise/Lower pedal) and return shrouds to original positions.



NOTE: T-Base Shown.

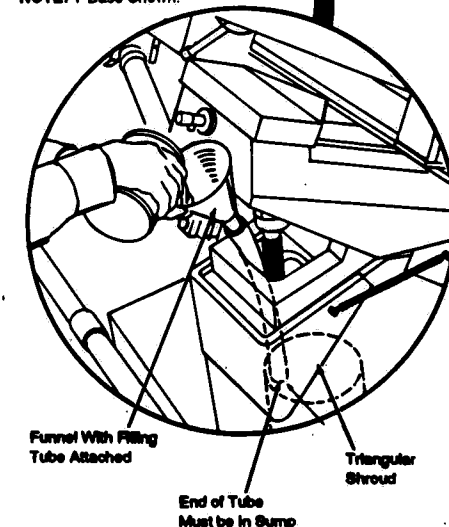


Figure 3-1. FILLING SUMP WITH HYDRAULIC OIL (Table with Lateral Tilt).

3.2 FILLING TABLE WITH HYDRAULIC OIL

1. Tables With lateral Tilt (Figure 3-1)

CAUTION: Do not mix different brands of oil.

a. Attach short crank handle to either Lateral Tilt control and place table in full tilt to left side. Pull right-hand triangular shroud out from top of elevating column. Pull shroud down slightly over column, exposing lateral tilt screw area.

b. Locate oil filling tube (originally taped to underside of superstructure; tube should be exposed upon lowering of shroud).

c. Untape filling tube from superstructure (do not pull tube from sump) or direct filling tube into sump.

d. Pour oil (P-82182-001) into funnel. Sump capacity is 2 quarts. Do not overfill sump.

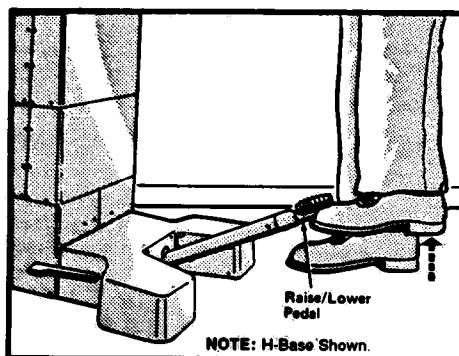


Figure 3-2. LOWERING THE SUPERSTRUCTURE.

2. Tables Without Lateral Tilt

a. Free the outer pair of shrouds from the elevating column by removing the five small screws from each side of one shroud and the two larger screws from the opposite sides of each outer shroud. The shrouds can then be easily pulled away from the column.

NOTE: Be careful when removing the screws; they are very small.

b. Have two persons lift the table superstructure to its maximum height; have a third person place a support under the superstructure (Figure 3-3).

c. Direct the filling tube (furnished) into the sump (Figure 3-4).

NOTE: Be sure the tube is in the sump and not the base area; otherwise oil will leak onto the floor.

d. Pour the oil (P-82182-091) into the filling tube. Sump capacity is 1/2 gallon.

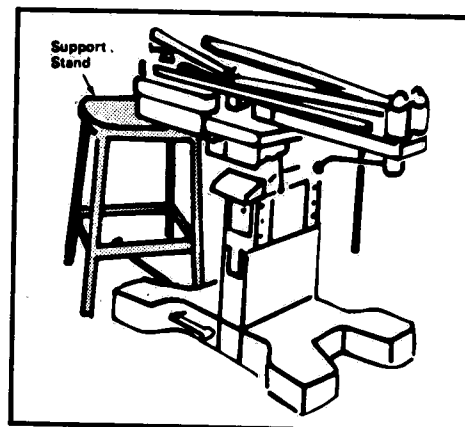


Figure 3-3. SUPPORTING THE SUPERSTRUCTURE.

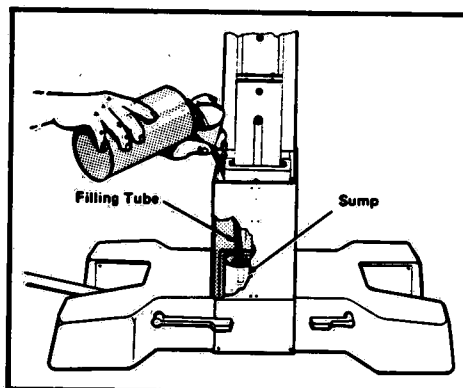


Figure 3-4. FILLING SUMP WITH OIL (Table without Lateral Tilt).

e. Once the sump is filled, remove the filling tube and slowly pump the RAISE/LOWER pedal to elevate the superstructure to its maximum height. Remove the supports from underneath the superstructure. Continue pumping the pedal after the supports have been removed. This will expel air from the system.

f. After air is expelled, lower the superstructure (Figure 3-2) and replace the shrouds.

SECTION 4 PREVENTIVE MAINTENANCE AND INSPECTIONS

WARNING: REPAIRS AND ADJUSTMENTS SHOULD BE ATTEMPTED ONLY BY EXPERIENCED PERSONS FULLY ACQUAINTED WITH THIS EQUIPMENT. USE OF INEXPERIENCED, UNQUALIFIED PERSONS TO WORK ON THE EQUIPMENT OR INSTALLATION OF UNAUTHORIZED PARTS COULD CAUSE INJURY OR RESULT IN COSTLY DAMAGE.

4.1 AS NEEDED

1. Cleaning and Disinfecting

NOTE: Following procedure will require a mild detergent solution, a quaternary ammonium compound disinfectant and clean, lint-free cloths. Never use abrasive pads or cleaners.

Any cleaning solutions may be used; however, only at Manufacturer's recommended dilution.

Examples of detergents which may be used:

- Tide (Procter & Gamble, Cincinnati, OH)
- Super Edisonite (Edison Chemical Co., Inc., New York, NY)

A suitable disinfectant is one such as Zephiran (Winthrop Labs, Inc., New York, NY).

Examples of cleaner/disinfectants available from AMSCO:

- SANIKLEEN®
- BIO Q®

a. Pads

- Remove vinyl padded attachments (e.g., backrests, arm extensions) and thoroughly clean each with a mild detergent solution.

- Rinse attachments with clean water. Thoroughly dry surfaces with a clean, lint-free cloth.

- Disinfect all surfaces. Use disinfectant (as directed by manufacturer) and a clean, lint-free cloth.

b. Table Exterior and Accessories

- Raise tabletop to its maximum height.
- Clean all accessible exterior surfaces, beginning at top, with a mild detergent solution.
- Rinse surfaces with clean water. Thoroughly dry surfaces with a clean, lint-free cloth.
- Disinfect all surfaces. Use disinfectant (as directed by manufacturer) and a clean, lint-free cloth.

- Be sure all surfaces are completely dry before lowering tabletop.

NOTE: In addition to cleaning and disinfecting procedures described above, it is recommended that the pads be periodically removed from their frames so that normally inaccessible areas may be cleaned and disinfected.

c. Casters

- Clean casters and check for conductivity.
- Remove any soil (suture, floor wax, etc.) that may have accumulated on caster mechanism.
- Clean casters with a mild detergent solution.

- Rinse casters with clean water. Thoroughly dry them with a clean, lint-free cloth.

- Disinfect casters. Use disinfectant (as directed by manufacturer) and a clean, lint-free cloth.

- Lightly lubricate casters with LUBRIPLATE, No. 630AA*, or equivalent.

2. Traction Arm Locking Mechanism (See Figure 4-1)

NOTE: Traction arm posts must be lubricated each time mechanism is taken apart.

*Mr. Fake Brothers Refining Co., Newark, NJ

Complete traction arm assembly is lockable through cam actuators, located beneath support bracket at foot-end of table. To adjust traction arm locking handles:

- Loosen two nuts beneath each support post.
- Place each handle in locked position beneath tabletop. Cams should align as shown in Figure 4-1.

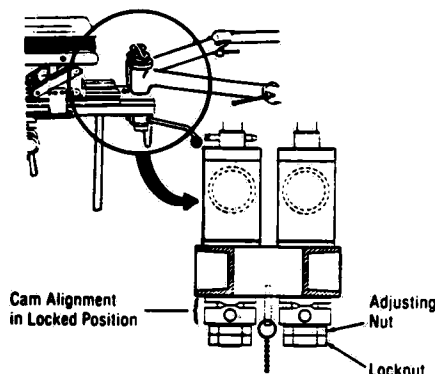


Figure 4-1. TRACTION ARM SUPPORT AND LOCKING MECHANISM.

c. Hand-tighten adjusting nuts until handles are firmly in place. Then move handles back and forth to be sure adjustment is not too tight (hard to lock) or too loose. Readjust nuts as required.

d. When adjustment is complete, tighten locknut against adjusting nut (while holding it in position). Move handle from locked to unlocked position several times to be sure desired tightness has been obtained. Readjust if necessary.

3. Polishing Stainless-Steel Items

Use **AMSCO STAINLESS STEEL CLEANER & POLISH** on all stainless-steel surfaces. Apply the cleaner with a damp cloth or sponge, thoroughly wipe off and then polish with a clean, dry cloth. Use **AMSCO PRY Cleaner** to remove stubborn stains.

CAUTION: When using **AMSCO STAINLESS STEEL CLEANER & POLISH** or **AMSCO PRY Cleaner**, rub in a back-and-forth motion (in the same direction as the surface grain). Do not rub with a rotary or circular motion. Do not use these cleaners on painted surfaces. Follow directions on the containers.

4.2 PREVENTIVE MAINTENANCE

1. Monthly

Refer to Paragraph 4.1.1.c. to clean casters and check for conductivity.

NOTE: Your table is furnished with electrically conductive floor locks and casters. Accumulation of foreign materials on their surfaces and wear can reduce their conductive properties. Routine testing for conductivity should be performed as needed.

2. Semi-Annually

To ensure continued satisfactory operation of table, proper and periodic lubrication is necessary. AMSCO recommends that a mechanic go over entire table once every six months and lubricate components as required.

4.3 INSPECTION AND ADJUSTMENT

NOTE: Lubricants required are: Moly-Lubriplate® Type MS HD No. 2 (AMSCO Part P-753975-091, 5-pound can); a good grade of medium weight lubricating oil; Silicone spray lubricant (AMSCO Part P-40348-091, 6-oz. spray can); and Solus 750 (AMSCO Part P-82182-091, 1-quart can).

To lubricate some parts, some disassembly of the table is required. Refer to Section 5, Component Repair and Replacement.

1. Visually inspect the entire table for loose or missing parts. Tighten any loose screws and replace missing parts. Check for stripped threads on all nuts and screws.

2. **Tabletop Adjustment** - Pump and RAISE/LOWER pedal (Figure 4-2) until tabletop is at its maximum height (47" from floor to top of padded back section). Leave table in this position for one-half hour. At the end of this time, measure to see if table has remained at the same height. If table height has decreased, replace the pump (see Section 5).

NOTE: The pumping operation should be smooth and even throughout the raising of the tabletop.

With the table at its maximum height and the Trendelenburg locking bar tight, check the tabletop for "play" from foot end to head end and vice versa. There should be none. If there is play, the pedestal tension screws must be adjusted. Proceed as follows (Figure 4-3):

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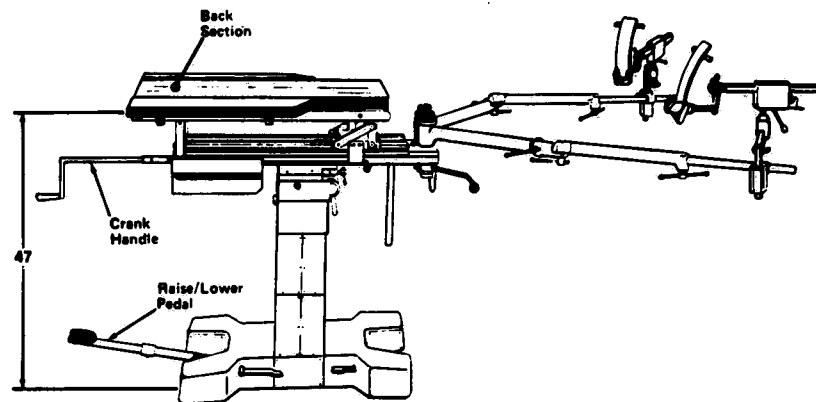


Figure 4-2. ORTHOGRAPHIC TABLE.

a. Lower table completely.

b. If table has lateral tilt, remove the two triangular shrouds from the top of the elevating column by unclipping the springs and sliding the shrouds away from the table.

c. Remove the three pairs of shrouds (which enclose the column) as follows: Remove the five small screws from each side of one of the outer shrouds and the two larger screws from the opposite sides of the other shrouds. Pull the shrouds away from the column.

NOTE: Be very careful when removing the screws securing the shrouds; they are very small. Also, mark or code each shroud as it is removed to be sure that it is reassembled in the correct order.

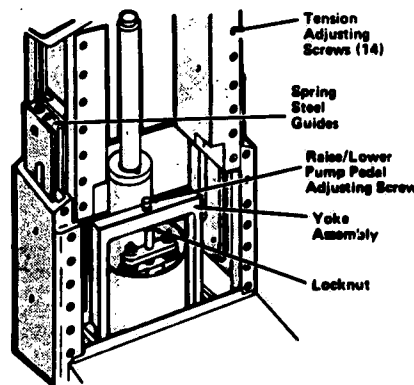


Figure 4-3. SUPERSTRUCTURE AND PUMP ASSEMBLY.

Proceed to remove the second and third pair of shrouds in the same manner. The third (inner) pair has two screws at the bottom of each side that must also be removed. These shrouds pull away from the pedestal in the opposite direction from the others.

d. Using the special adjusting tool (P-756997-091) provided and starting at the bottom, slightly tighten each adjusting screw (14 total). There is no sequence to the adjustment; however, it is convenient to work from the bottom up.

CAUTION: Do not overtighten the adjusting screws. Overtightening the screws may require their untightening and re-tightening from the beginning.

e. After all screws have been adjusted, raise the tabletop to its maximum height and check it for "play." Readjust the screws as necessary until all play has been eliminated.

f. After adjustment is complete, lower tabletop taking notice of its movement; it should be slow and smooth without any hesitation or binding. If the table does not lower smoothly, loosen the adjusting screws slightly.

NOTE: The table is in proper adjustment when the top is stable, without any end-to-end play, and when it lowers smoothly without binding.

g. While the shroud covers are removed, check the spring-steel guides (Figure 4-3) for lubricant. They should be coated lightly with either a Silicon grease or Molylube. (Normal lubrication is once a year.)

h. Reassemble the shrouds in reverse order of disassembly. Slide the two triangular shrouds (only on tables with lateral tilt) into the slots at the top of the cylinder and secure them with the springs.

3. **Back Section Crank Handle.** Turn crank handle (Figure 4-2) to move the back section as far as it will go in one direction; turn handle the other way until back section moves as far as it will go in the opposite direction. The crank should turn easily in each direction. If it turns roughly, check lead screw for defects or lack of lubricant.

4. **Tables With Lateral Tilt.** Turn crank (Figure 4-2) to achieve maximum tilt in one direction; reverse crank turn to obtain maximum tilt in opposite direction. The crank should turn easily in each direction. Repeat this on the opposite side of the table. If crank turns roughly, check universal joint and drive screw (Figure 4-4) for lack of lubricant.

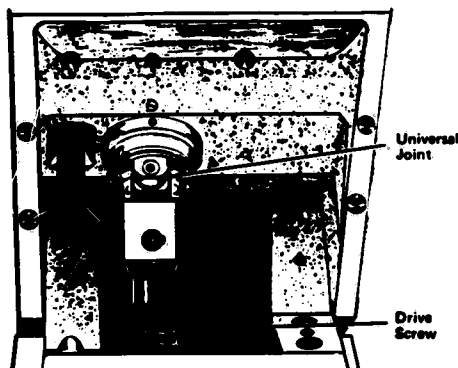


Figure 4-4. LATERAL TILT MECHANISM.

4.4 RAISE/LOWER PEDAL ADJUSTMENT

Factory adjustment is 32 strokes bottom to full height. To adjust the length of the pumping stroke or the lowering speed of the tabletop, proceed as follows:

1. Raise the tabletop completely.
2. Remove the two screens from the base of each narrow side of the inner pair of shrouds. Also remove the two screws from the top center of the inner shroud, on the side facing the pump pedal.
3. Pull the wide sides of the shrouds outward, just enough to clear the stop plate and raise the shrouds. Support them (in place) by placing a screwdriver between the shrouds and the frame support.
4. Refer to Figure 4-3 and loosen the locknut on the underside of the inverted U-shaped yoke assembly.
5. Turn the raise/lower pedal adjusting screw clockwise to decrease and counterclockwise to increase the number of pump strokes required to raise table to maximum height.
6. Test the adjustment by raising and lowering the tabletop several times; readjust the screw, as necessary.

NOTE: This adjustment will also increase or decrease (as applicable) the tabletop lowering speed.

7. After adjustment is complete, tighten the locknut under the yoke assembly and secure the shrouds.

4.5 TROUBLESHOOTING

The following contains detailed information for use in locating and correcting the cause of table malfunction.

TROUBLE	PROBABLE CAUSE	POSSIBLE REMEDY
Tabletop not level	Trendelenburg tilt locking handle is not tight	Level tabletop and tighten locking handle
Back section crank difficult to operate	Lack of lubricant	Lubricate
	Drive screw defective	Replace entire drive screw (Section 5-1)
Lateral tilt (optional) crank difficult to operate	Lack of lubricant	Lubricate
	Universal joint defective	Replace joint
	Drive screw or nut defective	Replace drive screw or nut or both
Tabletop fails to elevate	Defective pump	Replace pump (Section 5-2)
Tabletop does not stay when placed at set height	Defective pump (leaks)	Replace pump (Section 5-2)
Tabletop has end-to-end "play"	Tension screws too loose	Adjust tension screws properly (Section 4-3.2)

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SECTION 5

COMPONENT REPLACEMENT

NOTE: This section provides procedures for removing some assemblies and parts from the table. Reassembly is essentially the reverse of disassembly. After replacing a part, perform the appropriate inspection and maintenance procedures in Section 4.

5.1 BACK SECTION DRIVE SHAFT (Figure 5-1)

1. Remove the padded back section by first depressing the two holding pins on the slide mechanism and then lifting the section from the tabletop.

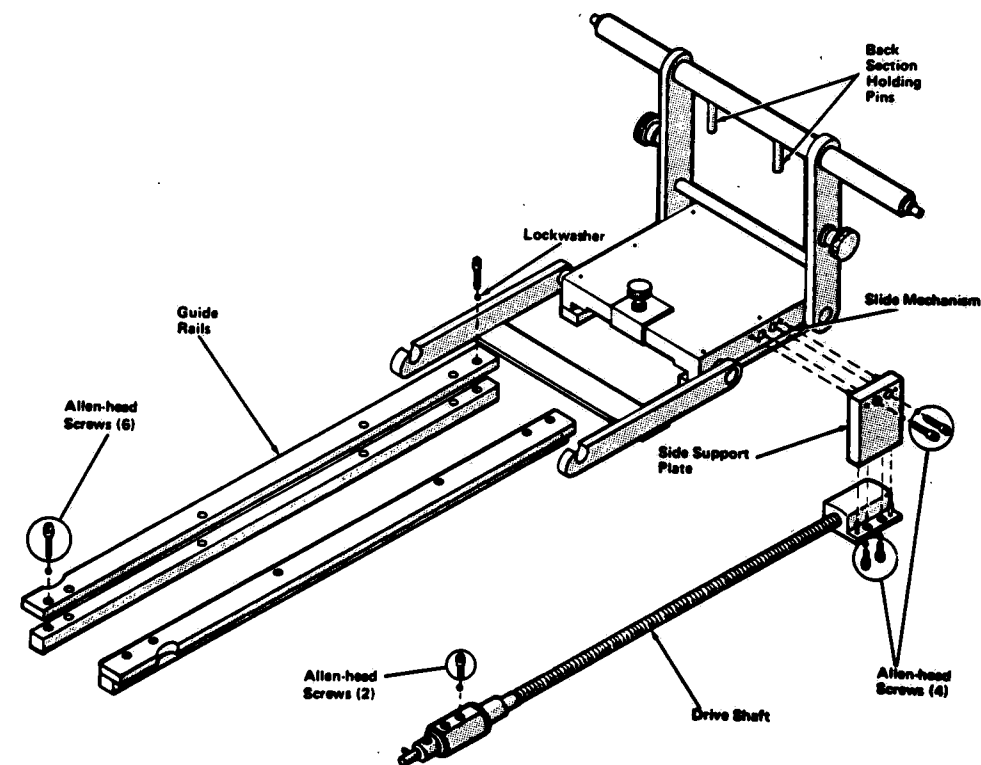


Figure 5-1. DRIVE SCREW AND SLIDE MECHANISM ASSEMBLY.

2. Using the crank, position the slide mechanism at the extreme foot end of the table.

3. Remove the four allen-head screws and their lockwashers from the slide mechanism side support plate. After the screws are removed, gently pry the upper portion of the plate away from the mechanism until the roll pins clear their holes. Then lift the plate straight up from the other pair of roll pins.

CAUTION: DO NOT force the plate off in such a way that the pins may be bent or broken.

4. Slide the mechanism off the guide rails, toward the head end of the table.

5. Remove the allen-head screws and lockwashers (10 total) securing the guide rails. Remove the rails and their spacer bars from the tabletop.

6. Remove the two allen-head screws and lockwashers from the inner side of the tabletop, at the head end of the table. These secure the drive shaft in position.

NOTE: Remove crank handle from head end of table, if installed.

7. Lift the shroud, at the head end of the table, enough to allow the drive shaft to be removed. Gently tap the crank support with a rubber hammer, toward the open area of the tabletop; remove the drive shaft.

NOTE: The shaft should not be repaired; it must be replaced in its entirety.

5.2 HYDRAULIC PUMP

To remove the pump for replacement purposes, proceed as follows:

1. Lower the tabletop completely.

2. Remove the two triangular shrouds (on tables with lateral tilt) at the top of the elevating cylinder by unclipping the springs and sliding the shrouds away from the table.

3. Remove the three pairs of telescoping shrouds enclosing the elevating cylinder as described in Section 4.3.2.c.

4. Raise the tabletop to its maximum height and place a support under the top (Figure 3-3). An anesthetic stool or wood blocking is recommended. If the tabletop cannot be raised by pumping the RAISE/LOWER pedal, it must be lifted manually.

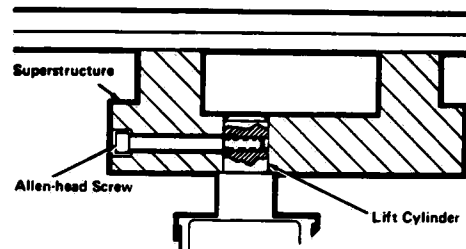


Figure 5-2. PUMP CYLINDER.

5. Prop or wire the RAISE/LOWER pedal at its maximum height.

6. Remove the allen-head screw securing the lift cylinder to the tabletop (Figure 5-2).

7. Loosen the locknut under the yoke assembly. Also remove the two pairs of nuts from the spring pressure plate (Figure 5-3).

CAUTION: Be careful not to drop the nuts into the sump.

8. Count the number of threads on the adjusting rod showing above the yoke assembly; note this for reassembly reference. Unscrew the adjusting rod from the yoke assembly until the bottom clears the top edge of the sump.

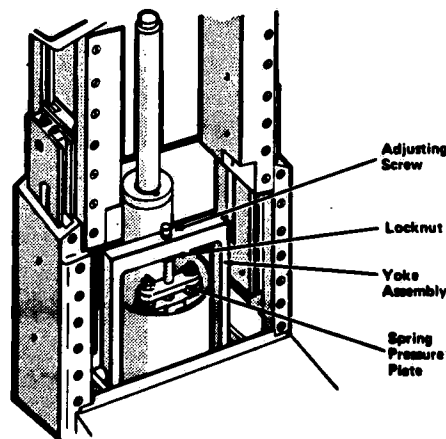


Figure 5-3. PUMP ASSEMBLY.

9. Lift the yoke assembly away from the sump; lean it against the table base (Figure 5-4).

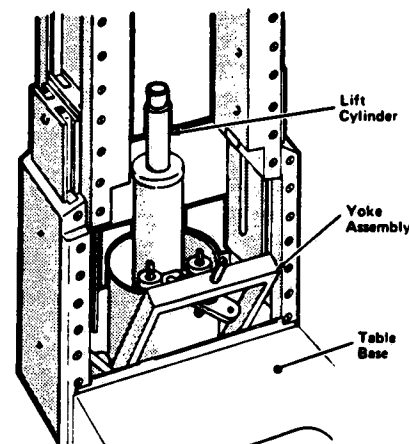


Figure 5-4. PUMP REMOVAL.

10. Press the lift cylinder down (by hand) as far as possible to allow the pump assembly to be removed from the table base.

11. Lift the sump and pump assembly out of the base area (Figure 5-5).

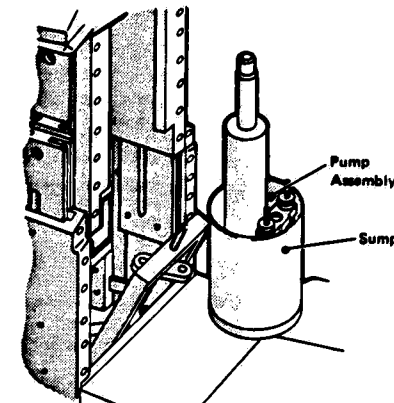


Figure 5-5. PUMP REMOVED FROM TABLE.

NOTE: Be careful not to spill any oil from the sump into the base area. The pump assembly may then be easily lifted from the sump.

a. Empty the sump of oil and clean it thoroughly. After installing the new pump, slowly pour two quarts of oil into the sump. Reconnect the pump assembly to the yoke assembly and pump the RAISE/LOWER pedal before replacing the shrouds, to assure proper operation of the pump.

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SECTION 6
OPTIONAL ACCESSORIES

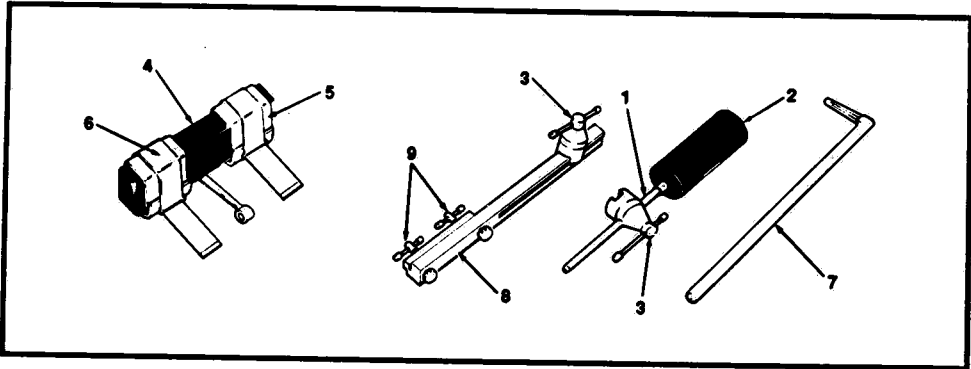


Figure 6-1. ARM TRACTION ASSEMBLY (BF00-007).

Fig. & Index No.	Part Number			Description
6-1-	P	142765	001	ARM TRACTION ASSEMBLY
1	P	142765	104	BAR ASSEMBLY, Arm Extension
2	P	142781	107	PAD, Roll Assembly
3	P	142765	107	CLAMP RADIAL ASSEMBLY
	P	163712	001	ARM SUPPORT (Inc. Items 4 thru 6)
4	P	142765	100	• PAD ARM SUPPORT
5	P	142765	106	• CUFF, Linen
6	P	142765	311	• STRAP, Body Restraint
7	P	142765	101	SHAFT ARM ASSEMBLY
8	P	142765	105	RAIL CLAMP ASSEMBLY
9	P	134316	104	SCREW AND HANDLE ASSEMBLY

OPTIONAL ACCESSORIES (Continued)

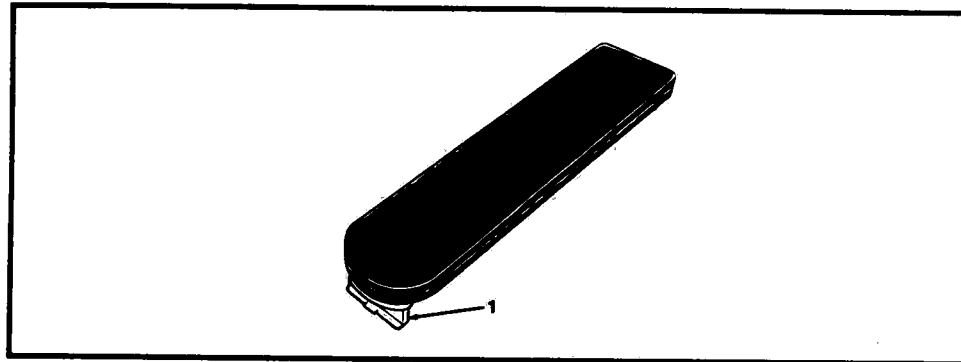


Figure 6-2. ARMBOARD WITH 1" PAD (BF01-500).

Fig. & Index No.	Part Number			Description
6-2-1	P	56231	001	ARMBOARD WITH 1" PAD (Inc. Item 1)
	P	56130	001	ARMBOARD ASSEMBLY

OPTIONAL ACCESSORIES (Continued)

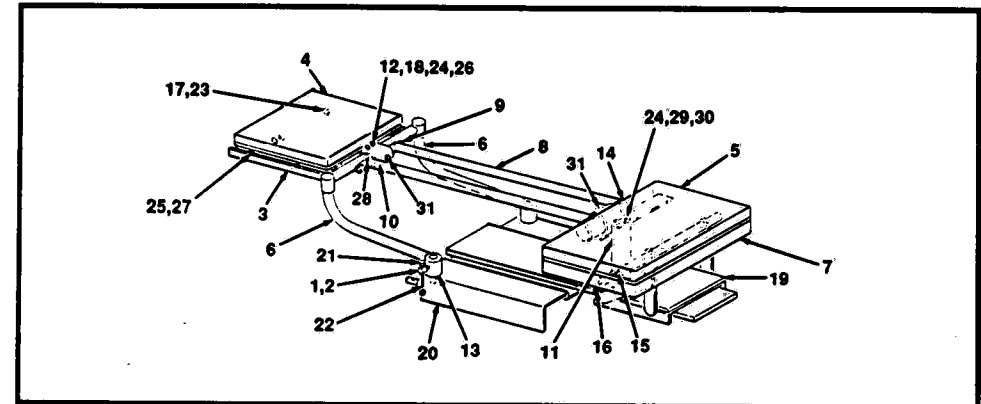


Figure 6-3. SEAT AND HEAD SECTION WITH IRONS ASSEMBLY (BF00-013).

Fig. & Index No.	Part Number			Description
6-3-	P	142773	001	SEAT AND HEAD SECTION W/IRONS
1	P	134316	104	SCREW AND HANDLE, M10
2	P	134316	301	SCREW HANDLE ASSEMBLY
3	P	142773	104	RAIL, Side
4	P	142773	100	PAD, Head Rest
5	P	142773	101	PAD, Seat Section
6	P	142773	102	FRAME, Back Section
7	P	142773	103	FRAME, Seat Section
8	P	142773	302	SPRING, Strip
9	P	142773	303	SHAFT
10	P	142773	304	CLIP
11	P	142773	305	BRACKET, Support
12	P	142773	306	TUBING, 10 OD x 1.5 Wall x 28mm Long
13	P	142773	307	BUSHING, Seat Section
14	P	142773	308	SLEEVE, Joint
15	P	142781	342	SCREW, Clamp Carriage
16	P	142781	351	ANGLE, Carriage
17	P	142781	712	SCREW, M5 x 16 DIN 6912, Socket Head
18	P	142781	716	SCREW, M6 x 40 DIN 6912, Socket Head Cap
19	P	142791	001	CARRIAGE, Sliding
20	P	142793	001	SUPPORT, Longitudinal
21	P	143130	433	SLEEVE, Rubber
22	P	143130	495	PIN, Support, 80mm Long
23	P	143130	701	LOCKWASHER, 5 DIN 7980
24	P	143130	702	LOCKWASHER, 6 DIN 7980
25	P	143130	704	LOCKWASHER, 10 DIN 7980
26	P	143130	725	NUT, Hex, M6 DIN 934
27	P	143130	727	NUT, Hex, M10 x 1 DIN 936
28	P	143130	746	PIN, Roll, 5 x 24 DIN 1481
29	P	143130	757	SCREW, M6 x 12 DIN 6912, Socket Head
30	P	143131	712	SCREW, M5 x 20 DIN 6912, Socket Head
31	P	143131	713	SCREW, M6 x 16 DIN 6912, Socket Head

OPTIONAL ACCESSORIES (Continued)

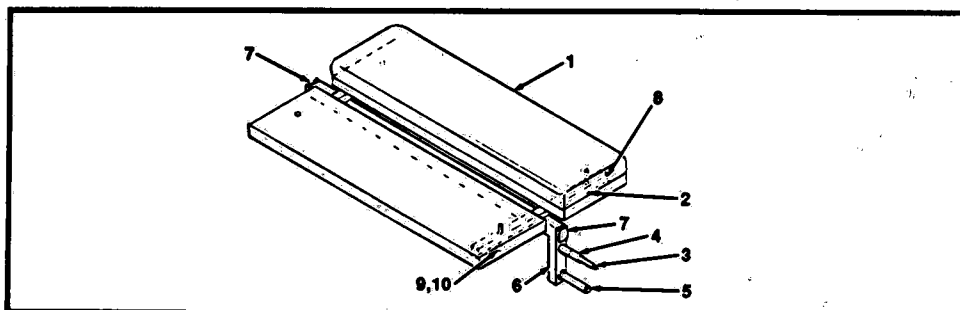


Figure 6-4. LEG EXTENSION
(BF00-004).

Fig. & Index No.	Part Number	Description
6-4	P 142770 001	LEG PLATE ASSEMBLY
1	P 142770 100	• PAD, Leg Section
2	P 142770 300	• SUPPORT, Lateral
3	P 142770 301	• PIN, Guide
4	P 142770 302	• TUBE, Rubber
5	P 142770 303	• STUD, Attaching
6	P 142770 305	• BAR, Square Steel
7	P 142770 306	• CAP, Plastic, 30 x 30
8	P 142770 307	• CAP, Plastic, 20 x 20
9	P 142781 714	SCREW, M5 x 40 DIN 6912, Socket Head, Cap
10	P 143130 701	LOCKWASHER, 5 DIN 7980

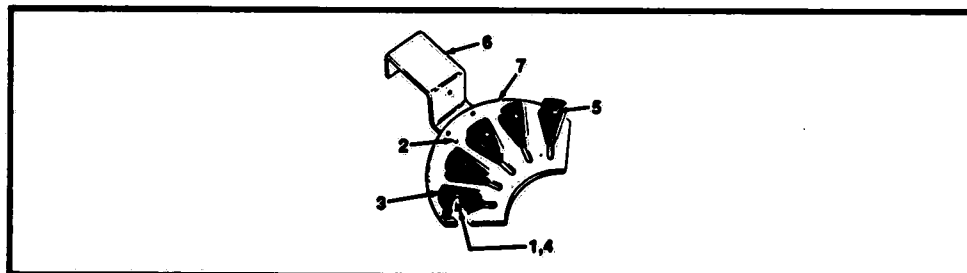


Figure 6-5. HAND TRACTION ASSEMBLY
(BF00-600).

Fig. & Index No.	Part Number	Description
6-5	1 P 2959 041	NUTS, 10-32, Hex
2	P 8958 081	RIVET
3	P 17252 091	WEDGE, Triangular
4	P 17589 045	WASHER, 1/2 x 7/32 x 3/64
5	P 30511 041	SCREW, 10-32 x 1-1/8
6	P 37986 051	SUPPORT
7	P 134380 001	PLATE, Hand Traction

OPTIONAL ACCESSORIES (Continued)

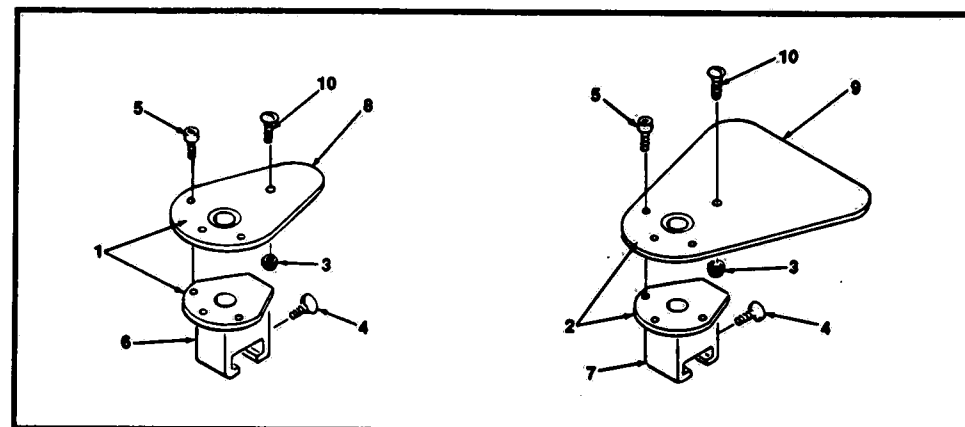


Figure 6-6. SACRAL REST ASSEMBLY
CHILD AND ADULT.

Fig. & Index No.	Part Number	Description
6-6	1 P 134197 003	SACRAL ASSEMBLY, Children's
2	P 134197 004	SACRAL ASSEMBLY, Adult's
3	P 3041 051	NUT, Cap
4	P 5834 051	THUMBSCREW, 5/16-18 x 3/4
5	P 46124 056	SCREW, Flat Head, Socket, 1/4-20 x 3/4
6	P 134196 001	SOCKET, Child Size
7	P 134196 002	SOCKET, Adult Size
8	P 150144 002	SACRAL REST, Child
9	P 150145 002	SACRAL REST, Adult
10	P 150146 001	BOLT

OPTIONAL ACCESSORIES (Continued)

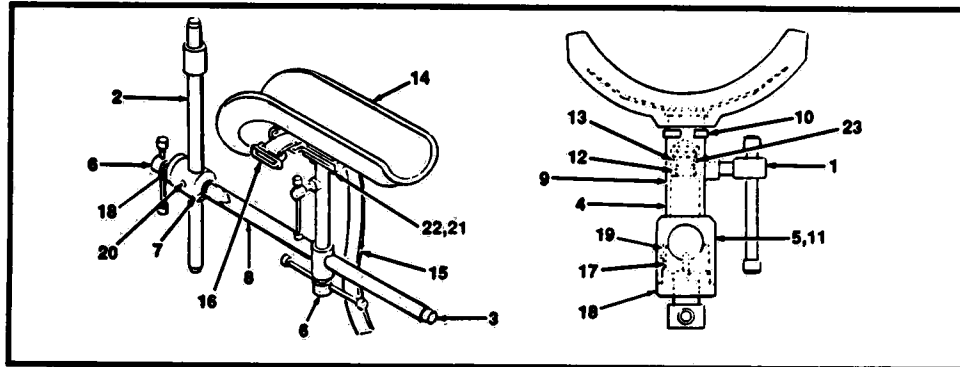


Figure 6-7. LOWER LEG SUPPORT
(BF00-001).

Fig. & Index No.	Part Number			Description
6-7-	P	142772	001	LOWER LEG SUPPORT ASSEMBLY
1	P	134316	105	SCREW AND HANDLE, M10
	P	134316	301	SCREW HANDLE ASSEMBLY, M10
2	P	135800	001	BAR, Support
3	P	142772	100	GUIDE, Horizontal Clamp
4	P	142772	101	CLAMP
5	P	142772	102	CLAMP, Axial
6	P	142772	103	SCREW AND HANDLE, M18 x 1.5
7	P	142772	300	END, Clamp
8	P	142772	301	BAR, Clamp
9	P	142772	302	BUSHING, Clamp
10	P	142772	303	BRACKET
11	P	142772	304	CONNECTOR, Clamp
12	P	142772	305	COLLAR, Clamp
13	P	142772	306	SPACER
14	P	142777	101	PAD ASSEMBLY
15	P	142777	304	CLAMP, Strap
16	P	142777	306	STRAP, Restraint, 650mm Long
17	P	142781	113	PRESSURE PIECE, AMSCO
18	P	142781	349	DISC, Threaded
19	P	142781	704	PIN, Roll, 3 x 5 DIN 1481
20	P	142781	705	PIN, Roll, 3 x 6 DIN 1481
21	P	143130	702	LOCKWASHER, 6 DIN 7980
22	P	143130	713	SCREW, M6 x 16 DIN 6912, Socket Head Cap
23	P	143130	743	PIN, Roll, 4 x 16 DIN 1481

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OPTIONAL ACCESSORIES (Continued)

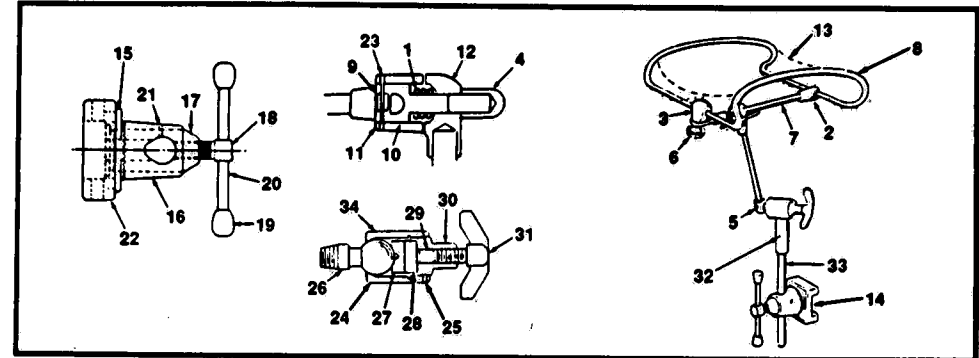


Figure 6-8. KRAUS ARM SUPPORT
(BF10-000).

Fig. & Index No.		Part Number		Description
6-8-	1	P	9280 061	SPRING
	2	P	12451 041	SCREW, 6-32 x 1/4, Round Head
	3	P	22340 056	BEARING
	4	P	24893 056	NUT, Wing
	5	P	25681 061	PIN, Grooved, 3/16 x 1-1/4
	6	P	26350 061	KNOB AND EYE END ASSEMBLY
		P	23449 061	• PIN, Spirol, 3/32 x 1/2
		P	24440 031	• SCREW, Adjusting Knob
		P	26351 056	• EYE, End Kraus Arm Support
		P	26352 061	• STUD, Kraus Arm Support
	7	P	26353 063	ROD AND BEARING ASSEMBLY
	8	P	26356 039	ROD, Kraus Arm Support
	9	P	26357 061	SCREW, Set, Headrest
	10	P	26359 061	CLAMP
	11	P	26360 056	JAW, Kraus Arm Support
	12	P	26361 056	SWIVEL SOCKET ASSEMBLY
	13	P	27111 091	STOCKINETTE, Arm Support
	14	P	43348 091	CLARK SOCKET ASSEMBLY
	15	P	14668 056	• LOCK, Slide
	16	P	14669 056	• SLEEVE, Socket
	17	P	14670 056	• POST
	18	P	14671 083	• SCREW, Clamping
	19	P	16524 056	• KNOB, Clamp Handle
	20	P	16538 063	• CRUTCH, Knee Handles
	21	P	43224 061	• PIN, Roll, 3/32 x 3/8 Long
	22	P	53045 056	• BASE
	23	P	45591 061	PIN, Roll, 3/32 Dia. x 1/2 Long, Stainless Steel
	24	P	55948 001	SUPPORT AND POST ASSEMBLY
	25	P	10583 091	• SCREW, Set
	26	P	24869 061	• STEM, Ball
	27	P	24881 045	• PISTON
	28	P	24882 091	• HEADREST, Spacer
	29	P	24883 045	• PLUNGER
	30	P	24884 056	• PISTON, Retainer
	31	P	25117 056	• WING SCREW ASSEMBLY
	32	P	25681 061	• PIN, Grooved, 3/16 x 1-1/4
	33	P	26522 061	• STUD
	34	P	55947 001	• SUPPORT ASSEMBLY

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OPTIONAL ACCESSORIES (Continued)

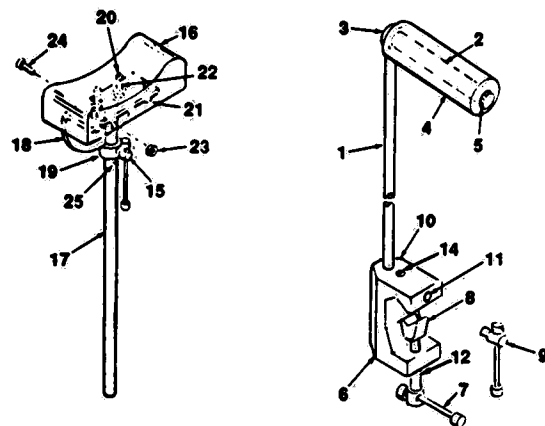


Figure 6-9. KNEE SUPPORT
(BF00-002).

Fig. & Index No.	Part Number			Description
6-9-	P	134316	107	SUPPORT, KNEE ASSEMBLY
1	P	134316	302	• BAR, Knee Support
2	P	134316	303	• SHAFT, Bridge Support
3	P	134316	311	• COLLAR, Knee Support
4	P	142781	107	• ROLL, Padded
5	P	142781	407	• SCREW, Knurled Head, M8
6	P	755659	001	C-CLAMP ASSEMBLY
7	P	134316	102	• SCREW, Handle, M14 x 1.5 Assembly
8	P	134316	103	• CLAMP VEE ASSEMBLY
9	P	784319	933	• SCREW AND HANDLE, M10
10	P	134316	307	• CLAMP, Casting (Only)
11	P	134316	308	• PIN, Pressure
12	P	134316	309	• BUSHING, Threaded
13				Not Used
14	P	142781	718	• SCREW, AM 3 x 8 DIN 84 Crescent Head
	P	134316	100	SUPPORT, Padded Titable
15	P	134316	104	• SCREW AND HANDLE, M10
16	P	134316	108	• PAD
17	P	134316	300	• BAR, Clamp
18	P	134316	304	• CLAMP, Angle
19	P	134316	305	• COLLAR, Clamp
20	P	142781	712	• SCREW, M5 x 16 DIN 6912, Socket Head
21	P	142781	717	• SCREW, B4.8 x 16 DIN 7971, Sheet Metal
22	P	143130	701	• LOCKWASHER
23	P	143130	725	• NUT, Hex, M6 DIN 934
24	P	143130	780	• SCREW, M6 x 20 DIN 6912, Socket Head
25	P	143131	707	• PIN, Roll, 4 x 24 DIN 1481

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OPTIONAL ACCESSORIES (Continued)

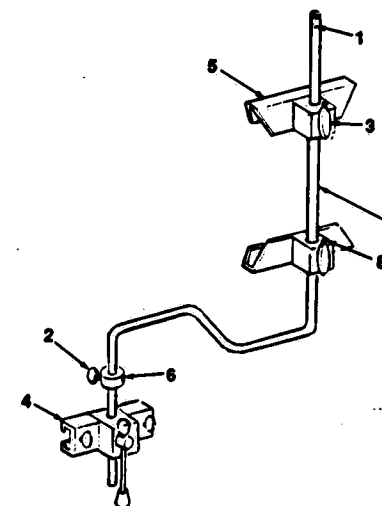


Figure 6-10. LATERAL CASSETTE HOLDER
(BF04-400).

Fig. & Index No.	Part Number			Description
6-10-	P	134181	001	LATERAL CASSETTE HOLDER
1	P	9276	041	• SCREW, 8-32 x 3/16
2	P	15419	044	• SCREW, Thumb, 1/4-20 x 1/2
3	P	44522	056	• KNOB
4	P	48931	091	• SOCKET ASSEMBLY
	P	5834	056	• SCREW, 5/16-18 x 3/4
	P	16524	056	• KNOB, Clamp Handle
	P	16538	063	• HANDLES, Knee Crutch
	P	48934	063	• SCREW, Clamping
	P	54095	056	• BASE, Socket
5	P	48941	034	• BRACKET
6	P	50877	063	• COLLAR
7	P	150042	001	• ROD
8	P	150763	001	• SCREW, Set, #8-32, Socket Head

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OPTIONAL ACCESSORIES (Continued)

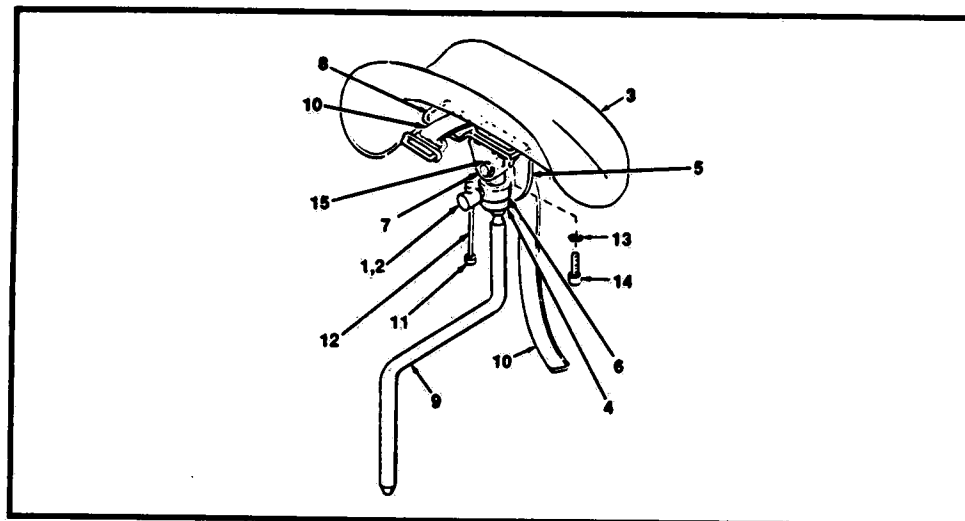


Figure 6-11. LEG HOLDER
(BF00-005).

Fig. & Index No.	Part Number			Description
6-11-	P	142777	001	BIERHOFF LEG HOLDER
1	P	134316	105	SCREW AND HANDLE, M10
2	P	134316	301	SCREW AND HANDLE ASSEMBLY
3	P	142777	101	PAD ASSEMBLY
4	P	142777	300	BUSHING, Clamp
5	P	142777	301	BRACKET, Swivel
6	P	142777	302	COLLAR, Clamp
7	P	142777	303	SHAFT, Bearing
8	P	142777	304	CLAMP, Strap
9	P	142777	307	BAR, Leg Holder, Bierhoff
10	P	142777	308	STRAP, Restraint, 650mm Long
11	P	143130	433	SLEEVE, Rubber
12	P	143130	494	PIN, Support, 100mm Long
13	P	143130	702	LOCKWASHER, 6 DIN 7980
14	P	143130	759	SCREW, M6 x 15 DIN 6912
15	P	143131	704	RING, Retaining, 4 x 0.7 DIN 471

OPTIONAL ACCESSORIES (Continued)

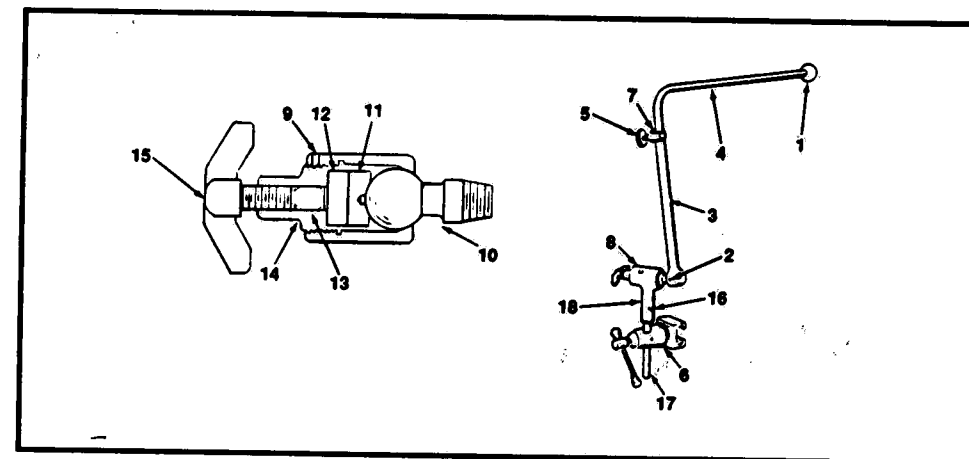


Figure 6-12. UNIVERSAL ETHER SCREEN #1805
(BF07-400).

Fig. & Index No.	Part Number			Description
6-12- 1	P	16418	091	KNOB
2	P	25681	061	PIN, Grooved, 5/16 x 1-1/4
3	P	26190	063	SUPPORT ASSEMBLY
4	P	26191	063	ROD
5	P	26203	061	SCREW, Adjusting
6	P	43348	091	CLARK SOCKET ASSEMBLY
7	P	47598	061	SCREW, Drive, #2 (.098) x 3/16 Long, Round Head
8	P	55948	001	SUPPORT AND POST ASSEMBLY
9	P	10583	091	• SCREW, Set, #10-32
10	P	24869	061	• BALL, Stem
11	P	24881	045	• PISTON
12	P	24882	091	• SPACER
13	P	24883	056	• PLUNGER
14	P	24884	056	• RETAINER
15	P	25117	056	• WING SCREW ASSEMBLY
16	P	25681	061	• PIN, Groove, 3/16 x 1-1/4
17	P	26522	061	• STUD
18	P	55947	001	• SUPPORT ASSEMBLY

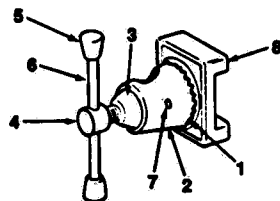
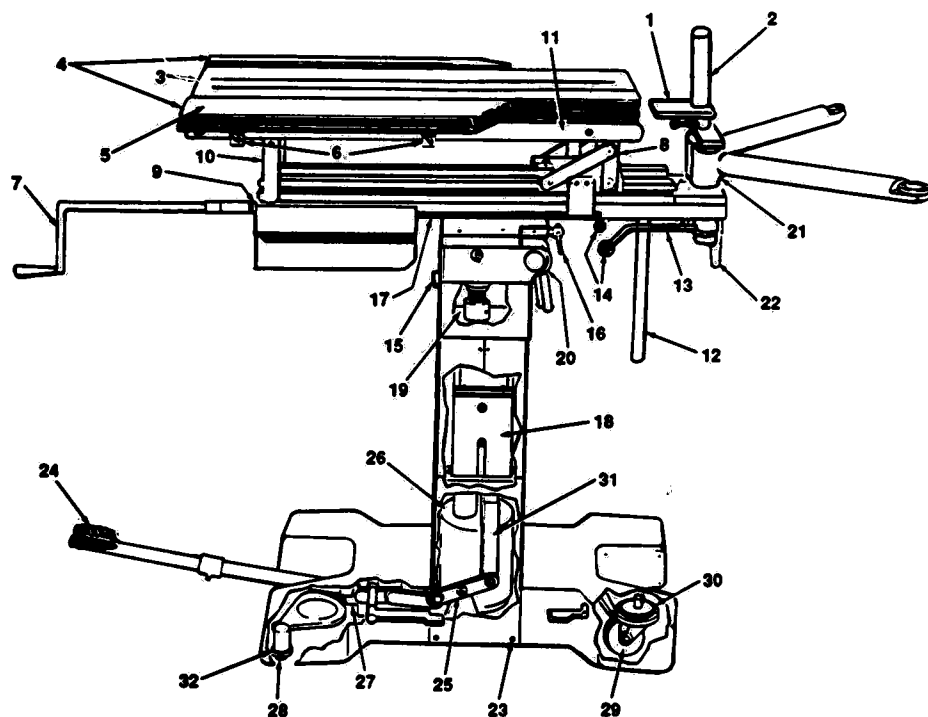


Figure 6-13. CLARK SOCKET ASSEMBLY #1402
(BF08-300) (Pair).

ILLUSTRATIONS AND PARTS LISTS

When ordering replacement parts, use the part numbers and descriptions provided on the subsequent parts lists. Include on your order the model, unit and serial numbers of the Table. Also, where applicable, include component manufacturer and nameplate data.

Fig. & Index No.	Part Number			Description
6-13-	P	43348	091	SOCKET CLARK ASSEMBLY
1	P	14668	056	• LOCK, Slide
2	P	14669	056	• SLEEVE, Socket
3	P	14670	056	• POST
4	P	14671	063	• SCREW, Clamping
5	P	16524	056	• KNOB, Clamp Handle
6	P	16538	063	• HANDLE, Knee Crutch
7	P	43224	061	• PIN, Roll, 3-32 x 3/8 Long
8	P	53045	056	• BASE



(NOTE: See Figures 7-7 and 7-8 for T-Base parts.)

Figure 7-1. ORTHOGRAPHIC TABLE (Without Traction Arms)
H-BASE.

Fig. & Index No.	Part Number			Description
7-1-				ORTHOGRAHIC TABLE, With H Base
1	P	134197	004	ADULT SACRAL REST ASSEMBLY
2	P	17163	091	POST FOR PELVIC SUPPORT (Adult)
1	P	134197	003	CHILD SACRAL REST ASSEMBLY
2	P	56126	001	POST FOR PELVIC SUPPORT (Children)
3	P	142788	001	PLATE, Dorsal Assembly
	P	142781	112	• PAD, Dorsal Plate Assembly
4	P	142781	102	LATERAL SUPPORT ASSEMBLY
5	P	142781	111	• PAD, Lateral Support Assembly
6	P	763853	001	• SCREW, Wing
7	P	142783	001	CRANK, Hand (Long) - Lateral Tilt and Trendelenburg Assembly
7	P	134469	016	CRANK, Hand (Short) - Lateral Tilt
8	P	142791	001	CARRIAGE ASSEMBLY
9	P	142799	001	SPINDLE, Drive Assembly
10	P	142782	001	BRIDGE, Support - For Back Plate
11	P	92313	001	RAIL, Side
12	P	135800	001	TUBE, Steel - For Leg Plate
13	P	142781	114	HANDLE, Locking Assembly (Right Hand)
	P	142781	115	HANDLE, Locking Assembly (Left Hand)
14	P	142781	395	KNOB
15	P	143130	303	SPRING, Cover
16	P	757047	091	CAP, Plastic
17	P	142793	001	BEAM, Longitudinal
18	P	142798	001	HOUSING, Base and Pedestal
19	P	142778	001	TILT, Lateral and Trendelenburg
20	P	142802	001	TRENDELENBURG
21	P	142779	001	STRUT, Traction - First Stage
22	P	142781	117	PIN AND CHAIN ASSEMBLY
23	P	143131	024	SCREWS, Flat Head
24	P	756990	091	PAD, Foot Pedal
25	P	142780	001	PUMP LEVER ASSEMBLY
26	P	142792	001	PUMP, Telescoping - Double (H-Base)
27	P	142795	001	BASE LOCKING MECHANISM
28	P	143130	406	BUMPER, Rubber
29	P	142790	001	CASTER, Swivel
	P	756988	091	• SHAFT, Caster
	P	142781	307	• CASTER, Natural Nylon
	P	756861	091	• CASTER, Stainless Steel
30	P	142797	001	LOCK, Swivel - Caster
31	P	142781	137	YOKE ASSEMBLY
32	P	764260	001	FOOT, Solid (1 Per Table)
	P	764261	001	FOOT, With Hole for Rubber Bumper (3 Per Table)

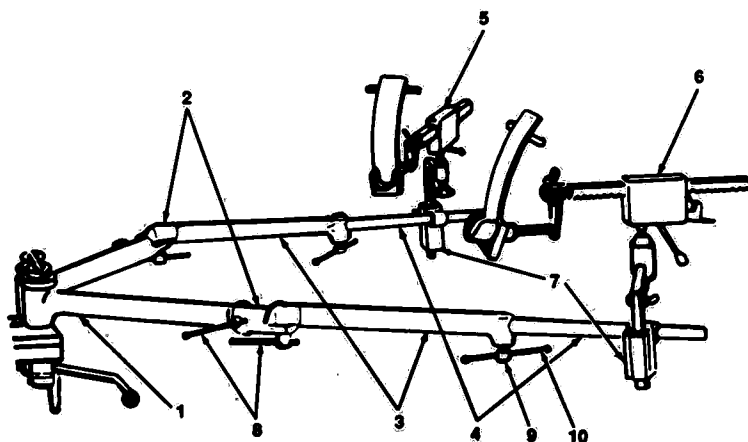


Figure 7-2. TRACTION STRUT ASSEMBLY.

Fig. & Index No.	Part Number			Description
7-2-	P	142800	001	TRACTION STRUT ASSEMBLY, RH (Complete Assembly)
	P	142781	105	TRACTION STRUT ASSEMBLY, LH (Complete Assembly)
1	P	142781	101	TRACTION STRUT, First Stage, RH
	P	142781	104	TRACTION STRUT, First Stage, LH
2	P	142781	120	JOINT ADJUSTMENT, RH
	P	142781	121	JOINT ADJUSTMENT, LH
3	P	142781	100	TRACTION STRUT, Second Stage
4	P	135814	001	BAR EXTENSION
5	P	142703	002	LEG TRACTION ASSEMBLY, LH (See Figure 7-3)
6	P	142703	001	LEG TRACTION ASSEMBLY, RH (See Figure 7-3)
7	P	135841	001	SUPPORT ASSEMBLY (See Figure 7-4)
8	P	757022	091	T-HANDLE ASSEMBLY
9	P	142781	122	T-HANDLE ASSEMBLY
10	P	143130	433	RUBBER SLEEVE ONLY

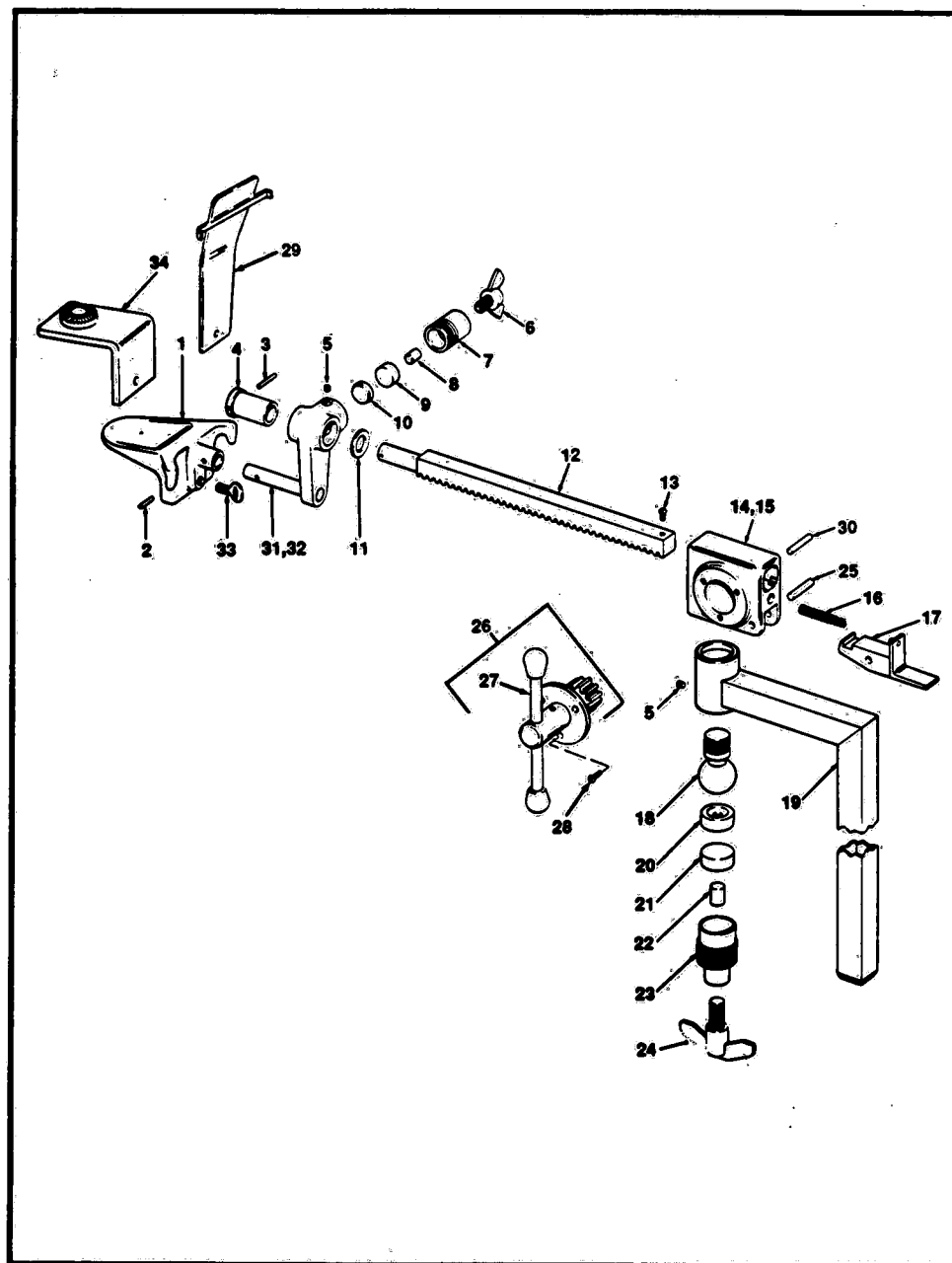


Figure 7-3. LEG TRACTION ASSEMBLY.

Fig. & Index No.	Part Number			Description
7-3-	P	142703	001	LEG TRACTION ASSEMBLY, RH (Inc. Items 1 thru 34)
	P	142703	002	LEG TRACTION ASSEMBLY, LH (Inc. Items 1 thru 34)
1	P	135491	001	HEEL SUPPORT
2	P	30092	061	PIN, Groove
3	P	31967	091	PIN, Drive Lock
4	P	33207	051	BUSHING
5	P	10583	091	SCREW, Set, No. 10-32 x 3/16"
6	P	17198	051	SCREW, Wing
7	P	33205	051	RETAINER
8	P	33206	045	PLUNGER
9	P	26548	091	PLUG
10	P	33383	045	SHOE
11	P	17285	045	WASHER
12	P	33209	051	RACK, Leg Traction
13	P	12283	041	SCREW, Round Head, No. 10-32 x 1/4"
14	P	33197	051	TRACTION BOX, LH
15	P	53229	051	TRACTION BOX, RH
16	P	11606	045	SPRING, Clutch Key
17	P	17269	051	DOG, Traction
18	P	24869	061	BALL STEM
19	P	92312	001	ELBOW, Traction
20	P	24881	045	PISTON
21	P	24882	091	SPACER
22	P	24883	045	PLUNGER
23	P	24884	051	PISTON, Retainer
24	P	24431	051	SCREW, Wing
25	P	26134	061	PIN, Drive Lock
26	P	33191	091	HANDLE AND PINION ASSEMBLY
27	P	17280	051	HANDLE AND SOCKET ASSEMBLY
	P	51176	091	SCREW, Set (Not Shown)
28	P	9374	041	SCREW, Round Head, No. 10-32 x 3/8"
29	P	33195	051	FOOT PLATE
30	P	25681	061	PIN GROOVE
31	P	44322	051	SUPPORT, RH
32	P	33202	051	SUPPORT, LH
33	P	5834	056	THUMBSCREW
34	P	92393	001	ADAPTOR ASSEMBLY - For Arm Support
	P	135841	001	SUPPORT ASSEMBLY (See Figure 7-4)

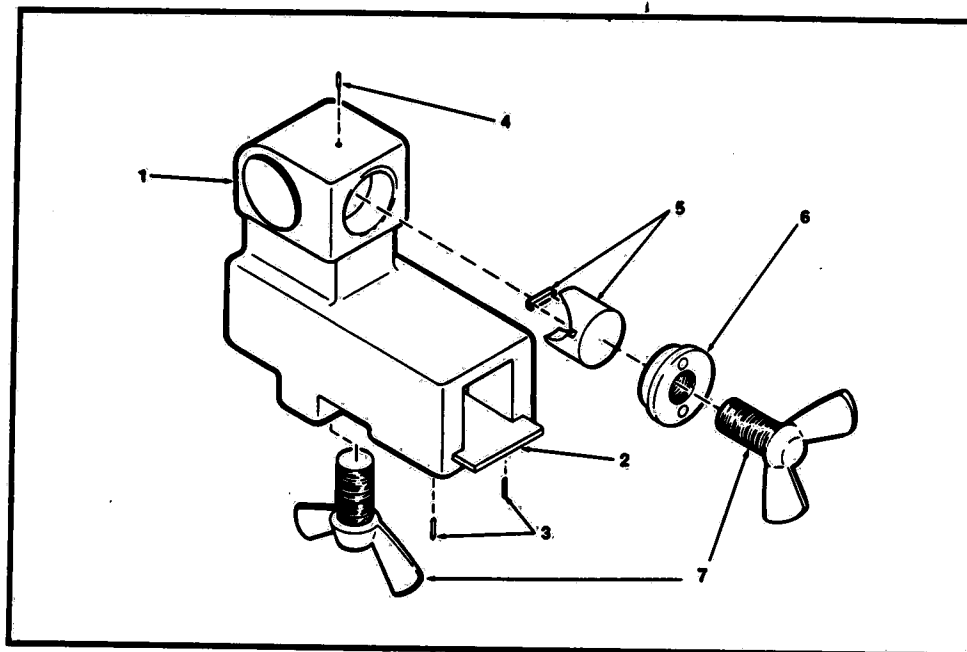


Figure 7-4. SUPPORT ASSEMBLY.

Fig. & Index No.	Part Number			Description
7-4-	P	135841	001	SUPPORT ASSEMBLY (Inc. Items 1 thru 7)
1	P	135844	001	SUPPORT
2	P	82225	001	BAR, Locking
3	P	43491	091	PIN, Roll, 1/16" Diameter x 3/8" Long
4	P	82228	001	PIN, Roll, 3/32" Diameter x 1/4" Long
5	P	92392	001	SHOE ASSEMBLY
6	P	82224	001	CAP
7	P	17188	051	SCREW, Wing

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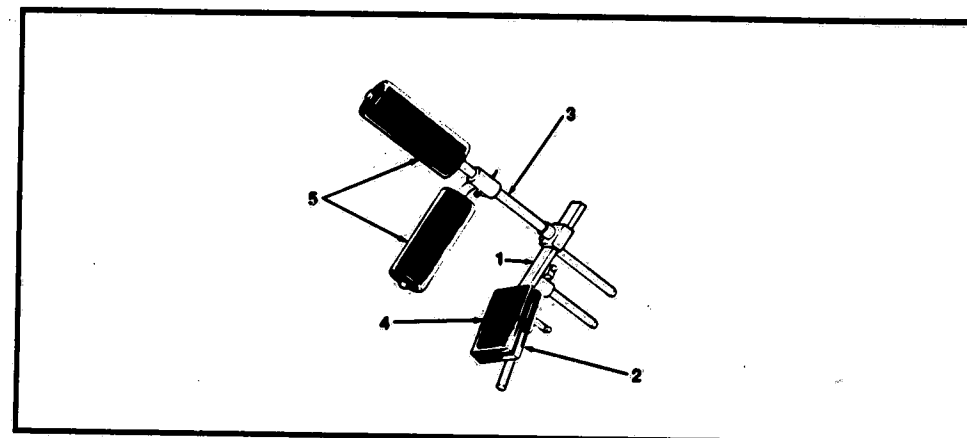


Figure 7-5. INTRAMEDULLARY NAILING DEVICE.

Fig. & Index No.	Part Number			Description
7-5-	P	135799	001	INTRAMEDULLARY NAILING DEVICE (Inc. Items 1 thru 5)
1	P	142785	001	BRIDGE - For Upper and Lower Leg Support
2	P	142786	001	PLATE, Pelvis - For Thigh Support
3	P	142781	103	SUPPORT, Thigh
4	P	142781	107	PAD, Pelvis Plate
5	P	142781	107	PAD, Roll

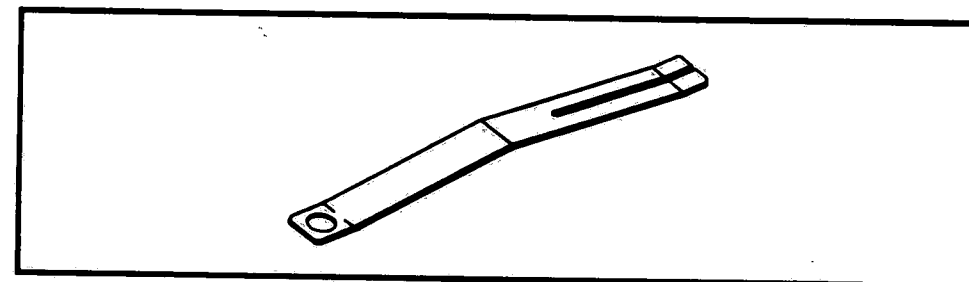


Figure 7-6. SPINE SUPPORT.

Fig. & Index No.	Part Number			Description
7-6-	P	33219	034	SPINE SUPPORT

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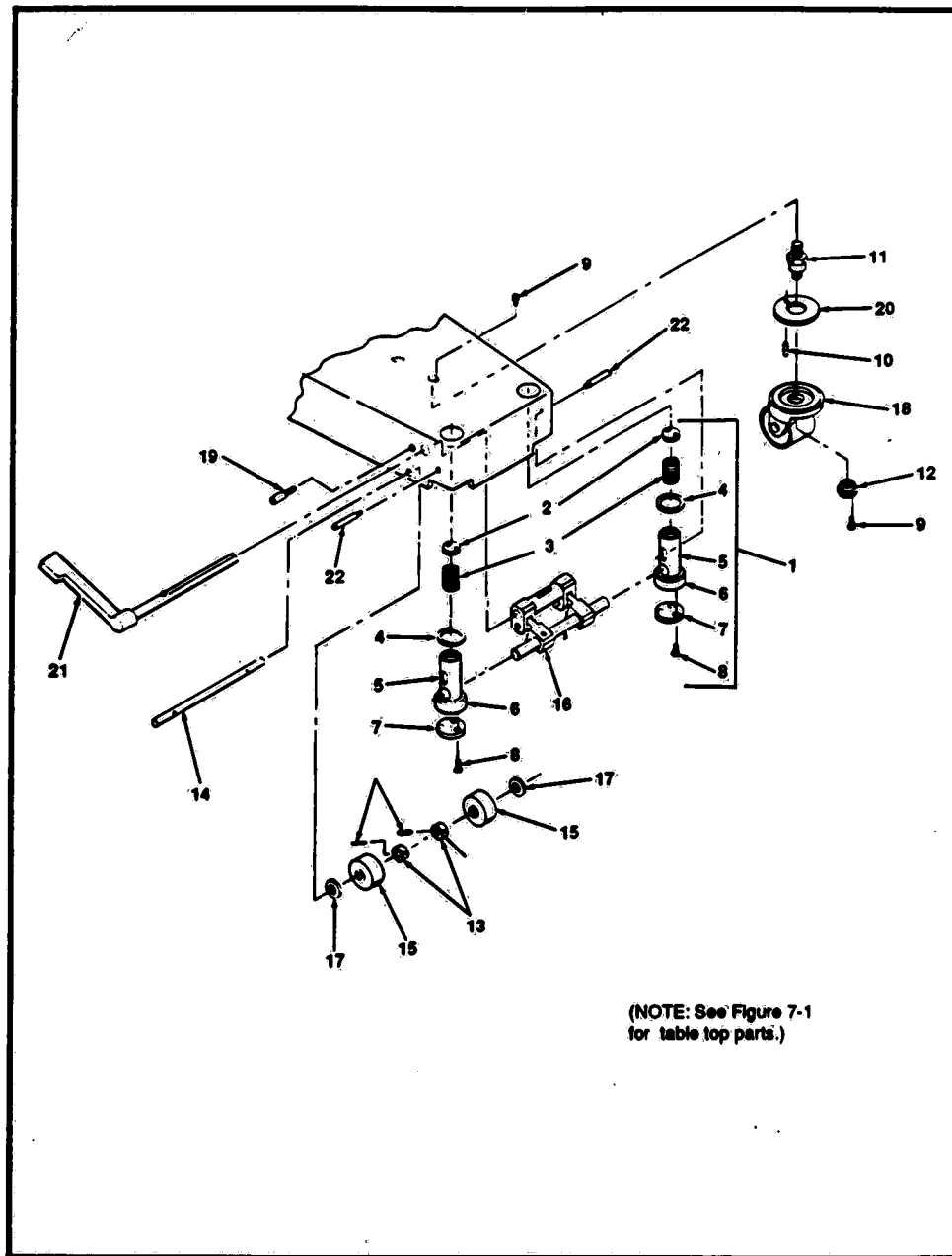


Figure 7-7. T-BASE ASSEMBLY, FRONT.

Fig. & Index No.	Part Number		Description
7-7-			T-BASE ASSEMBLY, Front
1	P	142781 147	FLOOR LOCK ASSEMBLY, T-Base Table
2	P	142781 523	• DISC, Threaded
3	P	143130 306	• SPRING
4	P	142781 570	• RING, Rubber
5	P	142781 522	• STEM
6	P	142781 524	• FLOOR LOCK, Foot
7	P	764319 020	• PAD, Rubber
8	P	143130 730	• SCREW, Flat Head
9	P	143130 768	SCREW
10	P	143130 743	ROLL PIN
11	P	142781 510	PIN, Threaded
12	P	143130 478	NUT, Caster
13	P	142781 535	SPACERS, Support Roller
14	P	142781 533	SHAFT, Support Roller
15	P	142781 534	ROLLER, Support Base
16	P	142781 152	HINGE ASSEMBLY
17	P	142781 726	WASHER, Flat
18	P	142781 139	SWIVEL CASTER ASSEMBLY
19	P	764316 362	STOP PIN
20	P	142781 306	DISC, Bearing
21	P	142781 155	PEDAL, Floor Lock
22	P	143130 402	PIN

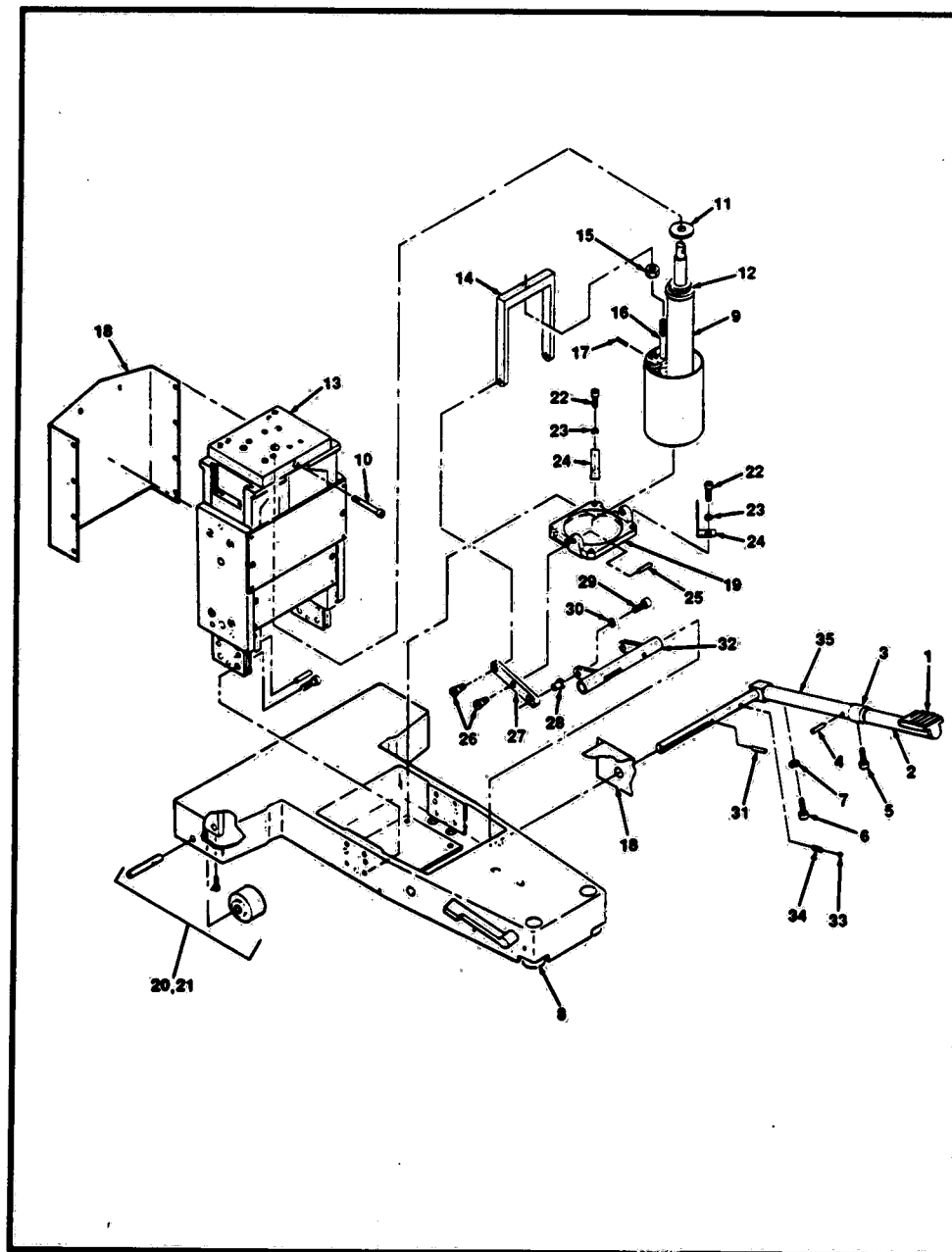


Figure 7-8. T-BASE ASSEMBLY.

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Fig. & Index No.	Part Number		Description
7-8-			T-BASE ASSEMBLY
1	P	142781 467	PAD, Rubber Pedal
2	P	142781 479	TUBE, Internal
3	P	142781 470	BUSHING
4	P	143131 707	ROLL PIN
5	P	142781 482	STOP SCREW
6	P	143130 757	SCREW
7	P	142781 753	LOCKWASHER
8			FLOOR LOCK ASSEMBLY, (See Fig. 7-7)
9	P	142781 149	PUMP ASSEMBLY, Lift Cylinder
10	P	142781 736	SCREW
11	P	142781 484	WASHER, Rubber, Pump
12	P	142781 545	CAP, Spacer Pump
13	P	142781 146	ELEVATOR ASSEMBLY
14	P	142781 137	YOKE, Pump Pedal Linkage
15	P	142781 729	NUT, Hex
16	P	142781 540	KICK ROD
17	P	142781 725	PIN, Cotter
18	P	142781 150	COVER ASSEMBLY
19	P	143130 600	PLATE, Bearing
20	P	142781 148	CASTER, Fixed, L.H.
21	P	142781 158	CASTER, Fixed, R.H.
22	P	143131 717	SCREW, Socket Head
23	P	143130 703	LOCKWASHER
24			BRACKET, L
25	P	143130 744	ROLL PIN
26	P	142781 821	SCREW, Shoulder
27	P	142781 822	LINKAGE, Pump Pedal
28	P	142781 620	BUSHING
29	P	142781 541	SCREW, Pump
30	P	142781 737	LOCKWASHER
31	P	142781 706	ROLL PIN
32	P	142781 153	YOKE, Pedal
33	P	142781 561	BALL
34	P	142781 315	SPRING
35	P	142781 161	LINKAGE, Pump Pedal

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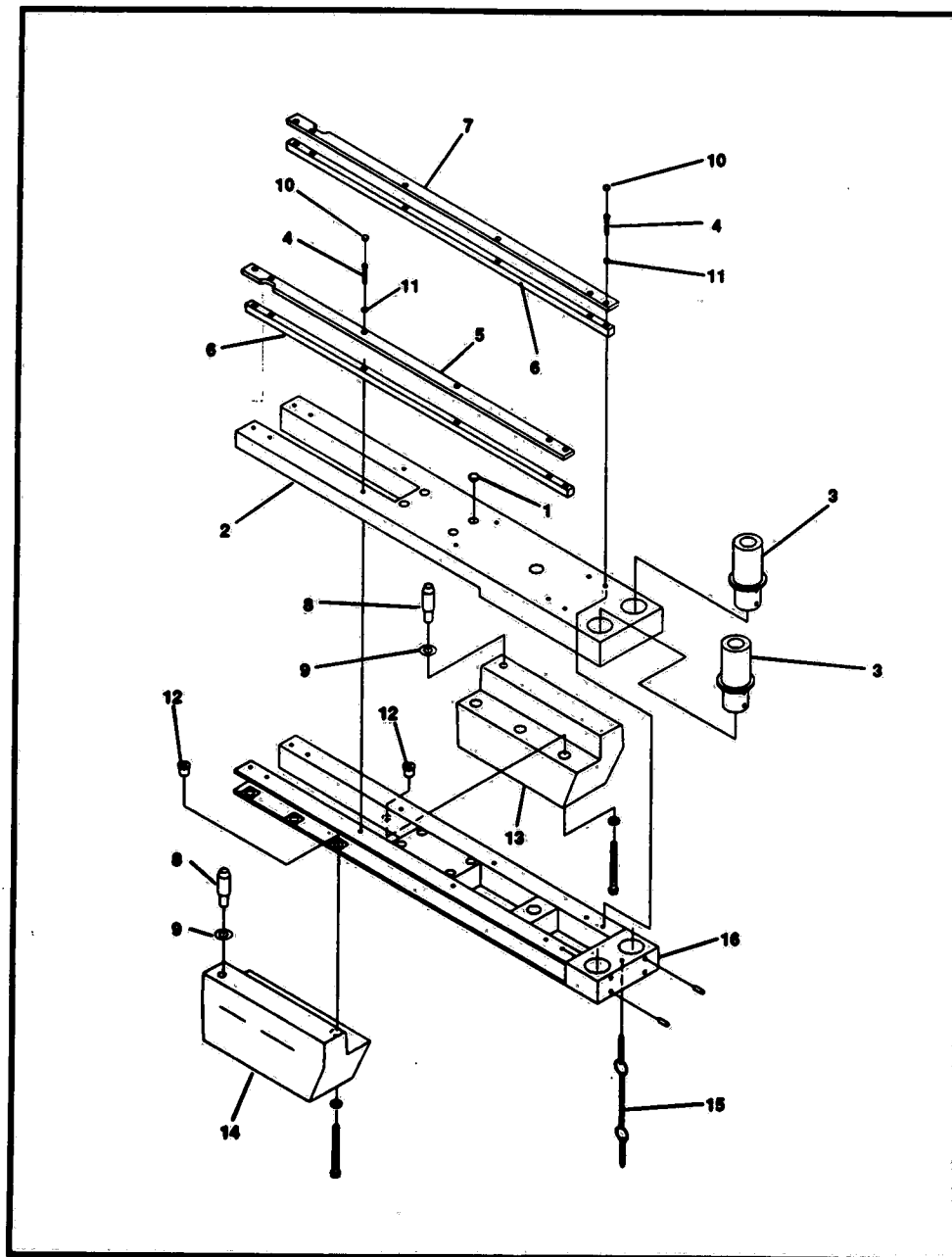


Figure 7-9. LONGITUDINAL SUPPORT ASSEMBLY.

Fig. & Index No.	Part Number			Description
7-9-				LONGITUDINAL SUPPORT ASSEMBLY
1	P	143132	023	CAP, Plastic
2	P	142781	440	SHROUD
3	P	762395	001	POST, Support
4	P	142781	715	SCREW
5	P	142781	426	SIDE RAIL, Left Hand
6	P	142781	418	SPACER
7	P	142781	423	SIDE RAIL, Right Hand
8	P	142781	345	PIN
9	P	128993	002	SHIM
10	P	142781	417	CAP, Plastic
11	P	143130	702	LOCKWASHER
12	P	142781	394	BUSHING, Threaded
13	P	142781	442	COUNTERWEIGHT, Right Hand
14	P	142781	441	COUNTERWEIGHT, Left Hand
15	P	142781	117	PIN AND CHAIN ASSEMBLY
16	P	142781	123	LONGITUDINAL SUPPORT

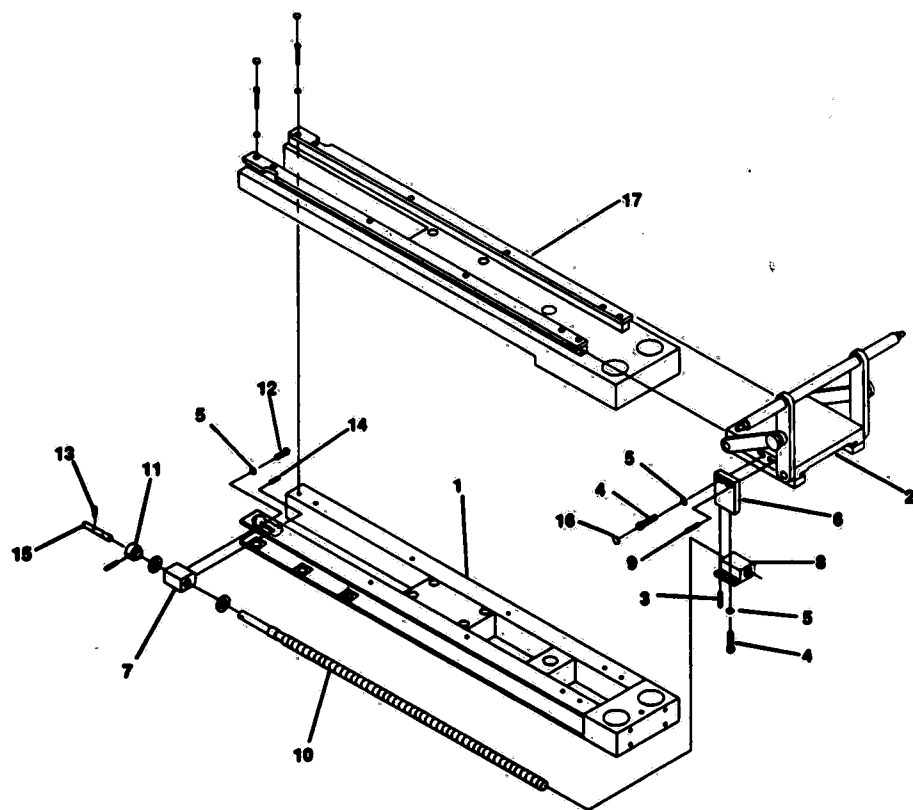


Figure 7-10. SPINDLE DRIVE ASSEMBLY.

Fig. & Index No.	Part Number			Description
7-10-				SPINDLE DRIVE ASSEMBLY
1	P	142793	001	LONGITUDINAL SUPPORT
2	P	142791	001	CARRIAGE, Sliding
3	P	143130	743	ROLL PIN
4	P	143130	759	SCREW
5	P	143130	702	LOCKWASHER
6	P	142781	331	PLATE, Drive
7	P	142781	329	SUPPORT
8	P	142781	330	NUT, Spindle
9	P	143130	745	ROLL PIN
10	P	142781	327	SPINDLE, Drive
11	P	142781	358	COLLAR, Set
12	P	143131	716	SCREW
13	P	143130	790	GROOVE PIN
14	P	142781	706	ROLL PIN
15	P	142781	328	SHAFT, Crank
16	P	142781	417	CAP, Plastic
17				SHROUD & RAILS (See Fig. 7-9)



AMSCO
SERVICE

AMSCO ORTHOGRAPHIC ORTHOPEDIC & FRACTURE TABLE P-757230-002

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