

TM 8-6520-004-14&P

TECHNICAL MANUAL

**UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL**

**(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)**

**DENTAL OPERATING CHAIR AND STOOL UNIT
MODEL CM-185**

6520-00-181-7349

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1998

Throughout this manual are **WARNINGS**, **CAUTIONS**, and **NOTES**. Please take time to read these. They are there to protect you and the equipment.

WARNING

Procedures which must be observed to avoid personal injury, and even loss of life.

CAUTION

Procedures which must be observed to avoid damage to equipment, destruction of equipment, or long-term health hazards.

NOTE

Essential information that should be remembered.

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MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
DENTAL OPERATING CHAIR AND STOOL UNIT
MODEL CM-185
6520-00-181-7349**

You can help improve this manual. If you find any mistakes or if you know a way to improve procedures, please let us know. Mail a memorandum to: U.S. Army Medical Materiel Agency, 1423 Sultan Drive, Suite 100, ATTN: MCMR-MMM, Fort Detrick, MD 21702-5001. A reply will be furnished directly to you.

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HOW TO USE THIS MANUAL

This manual provides all the information needed to understand the capabilities, functions, and characteristics of this equipment. It describes how to set up, operate, test, and repair the equipment. You must familiarize yourself with the entire manual before operating or beginning a maintenance task.

The manual is arranged by chapters, sections, and paragraphs followed by appendixes, a glossary, an index, and DA Forms 2028-2. Use the table of contents to help locate the chapter or section for the general subject area needed. The index will help locate more specific subjects.

Chapter 3 provides a systematic method of inspecting and servicing the equipment. In this way, small defects can be detected early before they become a major problem causing the equipment to fail. Make a habit of doing the checks and services in the same order each time and anything wrong will be detected quickly.

Only perform maintenance functions specified in the maintenance allocation chart for your level of maintenance. Maintenance functions specified for higher levels of maintenance frequently require additional training; test, measurement, and diagnostic equipment; or tools.

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. Overview.

This manual describes the dental chair and stool unit (fig 1-1); provides maintenance personnel with equipment technical data and installation procedures; and provides operational and maintenance functions, services, and actions. Additional information follows:

a. Type of manual. Unit, direct support (DS), and general support (GS) maintenance (including repair parts and special tools list).

b. Model number and equipment name. CM185, Chair and Stool Unit, Dental Operating.

c. Purpose of equipment. To provide a portable dental chair for a patient and an operator stool for a dentist or dental technician in a field environment.

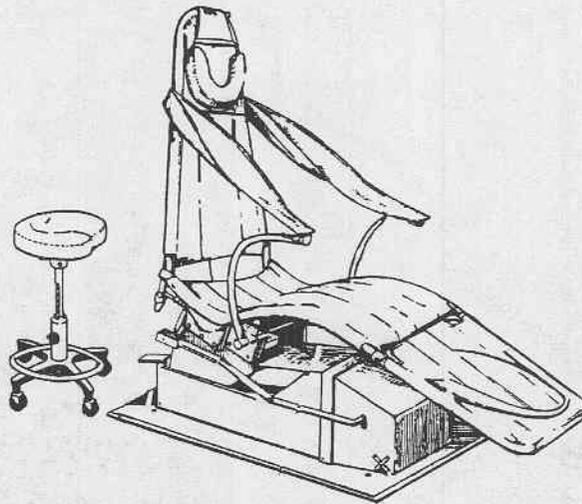


Figure 1-1. Dental chair and stool unit.

1-2. Explanation of abbreviations and terms.

Special or unique abbreviations, acronyms, and terms used within this manual are explained in the glossary.

1-3. Maintenance forms, records, and reports.

TB 38-750-2 prescribes forms, records, reports, and procedures.

1-4. Destruction of Army materiel to prevent enemy use.

AR 40-61 contains instructions for destruction and disposal of Army medical materiel. Also, the SB 8-75 series publications provide periodic information and/or instructions on the destruction of medical materiel.

1-5. Administrative storage.

a. Place the dental chair and stool unit in administrative storage for only short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness condition within 24 hours or within the time factors as determined by the directing authority. During the storage period, appropriate maintenance records will be kept.

b. Perform preventive maintenance checks and services (PMCS) listed in tables 3-1 and 3-2 before placing Army equipment in administrative storage. When equipment is removed from storage, PMCS will be performed to ensure operational readiness.

c. Inside storage is preferred for equipment selected for administrative storage.

1-6. Preparation for storage or shipment.

Procedures to prepare the dental chair and stool unit for storing or shipping are listed in chapter 3, section VII of this manual.

1-7. Quality control (QC).

TB 740-10/DLAM 4155.5/AFR 67-43 contains QC requirements and procedures.

1-8. Nomenclature cross-reference list.

Table 1-1 identifies official versus commonly used nomenclatures.

Table 1-1. Nomenclature cross-reference list.

<i>Common name</i>	<i>Official nomenclature</i>
Dental chair and stool unit	Chair and stool unit, dental operating, portable
Base	Lift
Case	Fiberglass container

1-9. Reporting and processing medical materiel complaints and/or quality improvement reports.

AR 40-61 prescribes procedures for submitting medical materiel complaints and/or quality improvement reports for the dental chair and stool unit.

1-10. Warranty information.

A warranty is not applicable.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-11. Equipment characteristics, capabilities, and features.

a. The dental chair and stool unit (fig 1-1) was designed to offer the maximum in dentist and patient comfort. It is a lightweight, sturdy module chair top, base and operator stool. The entire module is housed in an airtight fiberglass container and can be quickly set up for use in locations away from established facilities.

b. The base (lift) is mounted on a rectangular floor plate and provides the means to raise and lower the chair and patient to convenient working height. The activating force is developed by a hydraulic power unit consisting of a foot-operated hydraulic pump and cylinder. Raising the base is accomplished by pumping the foot lever (fig 1-2). The base is lowered by use of a foot-operated lever at the rear of the base.

c. The chair top consists of seat, back, and toe sections. The seat is mounted on a pivot that allows the seat to be tilted in two positions in respect to the base floor plate. A down position is used primarily for storage in the case. The up position is used when a patient is in the chair. Position the chair by operating a release lever located under the seat. Adjust the chair back by depressing a button located at the top of the back which operates a spring-activated hydraulic mechanism.

d. The stool (fig 1-3) provides seating for the doctor during operating procedures. The adjustable height swivel seat is mounted on a base with casters.

e. The entire chair assembly can be used while attached to the container base as shown in figure 1-2, or the chair and base can be removed from the container base if permanent positioning is desired. The base plate provides for mounting the Light Set, Dental Operating, Field, TM 8-6520-001-24&P.

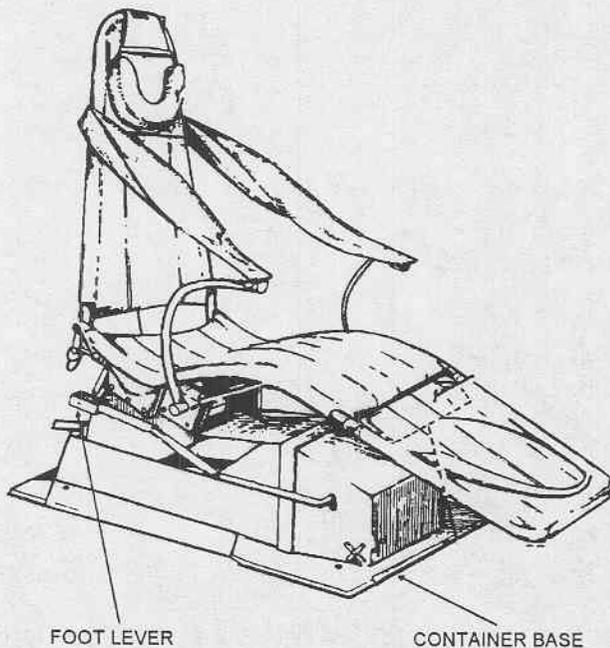


Figure 1-2. Chair base.

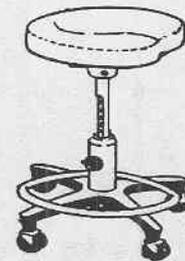


Figure 1-3. Dental stool.

1-12. Tabulated data, decals, and data plates.

The tabulated data provides physical characteristics and other information for the dental chair and stool unit.

a. *Physical characteristics and range of travel and angular adjustments.* Tables 1-2 and 1-3 provide a broad range of physical characteristics and range of travel and angular adjustments.

Table 1-2. Physical characteristics.

Weight	
Chair and Base (NSN 6520-01-136-5831)	110 pounds
Stool (NSN 6520-01-136-5840)	18 pounds
Container (NSN 6520-01-136-5826)	44 pounds
Total Module and Container	172 pounds

Table 1-3. Range of travel and angular adjustments.

Chair	Seat tilt - horizontal to approximately 16° below horizontal as measured on toe section.
Back	Tilts from upright sitting position within 15° of vertical downward through 57° to approximately 18° above horizontal as measured with seat and toe in horizontal position.
Base	The height range measured from the floor to the seating area of the seat is 12-1/2 inches at its lowest position to 30-1/2 inches at its highest position.
Stool	The stool is adjustable from 18 inches at its lowest position to 23 inches at its highest in one inch increments.
Case	The inside dimension of the case is 36-1/2 inches in length, 21-1/4 inches wide, and 18 inches in height.

b. Range and adjustments. Figure 1-4 details the range of travel and angular adjustment of the dental chair.

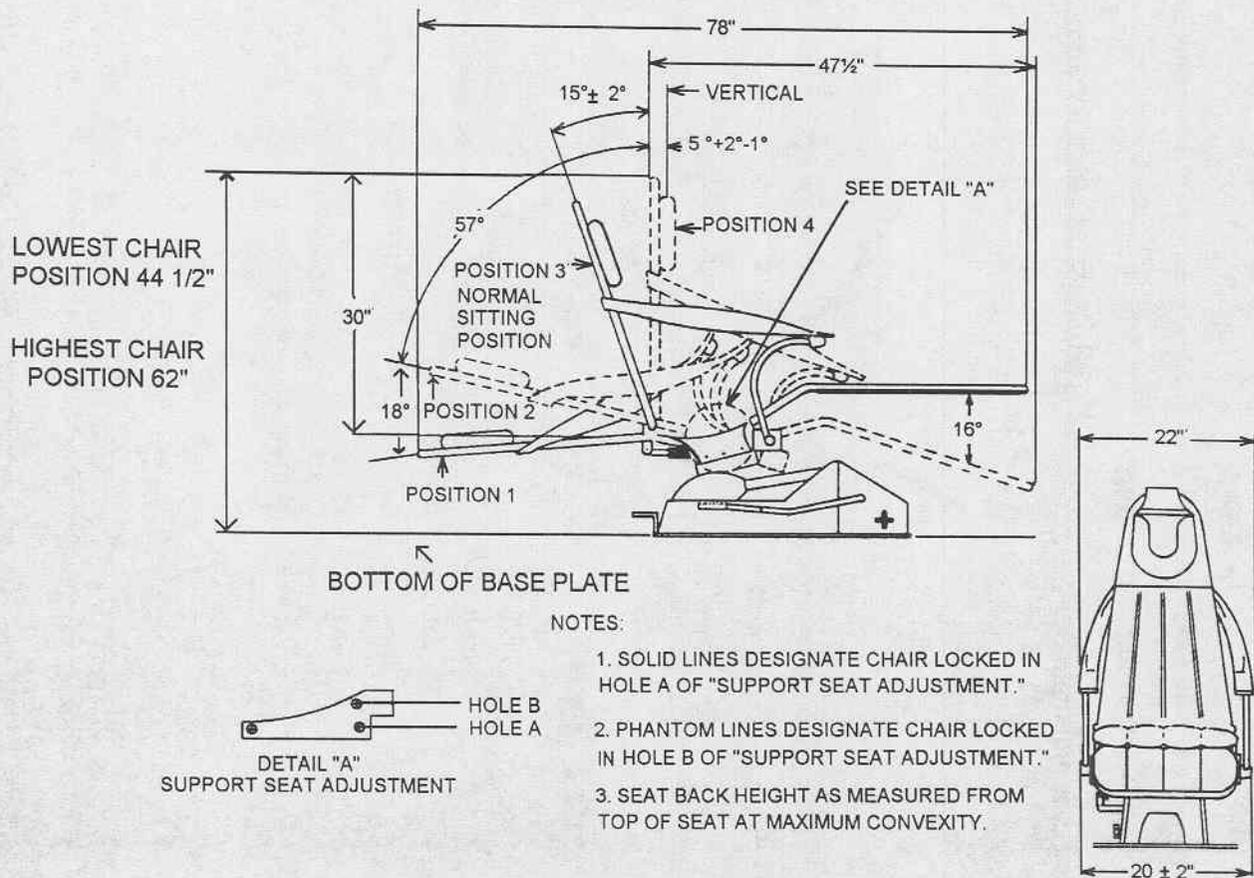


Figure 1-4. Range of travel and angular adjustments.

c. Data plates and decals.

(1) The dental chair and stool unit's manufacturer label, located on the top of the case, is depicted in figure 1-5.

(2) A vinyl label (fig 1-6) containing a white arrow and UP, located on the side of the case, is used to indicate which side of the case should face upward.

**6520-00-181-7349
 CHAIR AND STOOL UNIT
 DENTAL OPERATING, PORTABLE
 CAGE XXXXX
 DLA XXX-XX-C-XXXX
 SERIAL NO. XXX
 U.S.**

Figure 1-5. Case label.

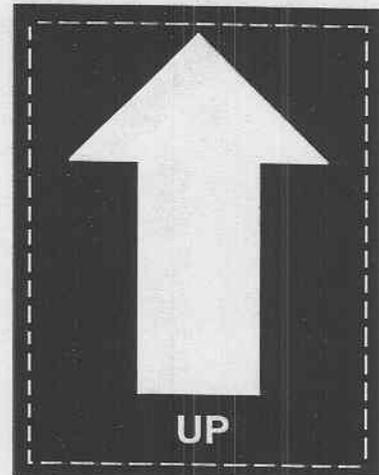


Figure 1-6. UP label.

(3) A white label, located on the outside of the case and the base of the dental chair, providing the serial number of the dental chair, is depicted in figure 1-7.

SERIAL NO. XXX

Figure 1-7. Serial number tape.

(4) A label, located on the cover pump assembly, is depicted in figure 1-8.

(5) A label, located on the channel lift arm, is depicted in figure 1-9.

**ALWAYS PUMP BASE
 TO FULL HEIGHT BEFORE
 REMOVING CHAIR FROM
 CASE OR IF REPOSITIONING
 OF CHAIR IS NECESSARY**

Figure 1-8. Cover pump assembly label.

**6520-00-181-7349
 CHAIR UNIT OF
 CAGE XXXXX
 DLA XXX-XX-C-XXXX
 SERIAL NO. XXX
 U.S.**

Figure 1-9. Channel lift arm label.

1-13. Model differences.

Model differences are not applicable since this manual covers a single model. However, design changes in assemblies, subassemblies, or components occur periodically. Information on such engineering changes will be published in supply bulletins and subsequent changes to this manual.

1-14. Safety, care, and handling.

- a. Observe each WARNING, CAUTION, and NOTE in this manual.
- b. Read the operating instructions in this manual before operating the unit. Refer servicing to qualified Medical Equipment Repairer personnel.

Section III. PRINCIPLES OF OPERATION

1-15. Basic operation.

- a. The dental chair uses a foot-operated hydraulic pump and associated cylinder to provide the force to elevate the chair. The various positions of the chair are mechanical.
- b. The dental stool uses casters for mobility and a spring-loaded piston for upward movement.

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. PREPARATION FOR OPERATION

2-1. Scope.

This manual is primarily intended to provide information, instructions, and procedures for the maintenance of the dental chair and stool unit. The operating information and instructions, while valid, do not provide sufficient information for use with a patient. Only qualified dental personnel are trained in specific techniques and procedures.

2-2. Unpacking and assembling procedures (fig 2-1 and fig 2-2).

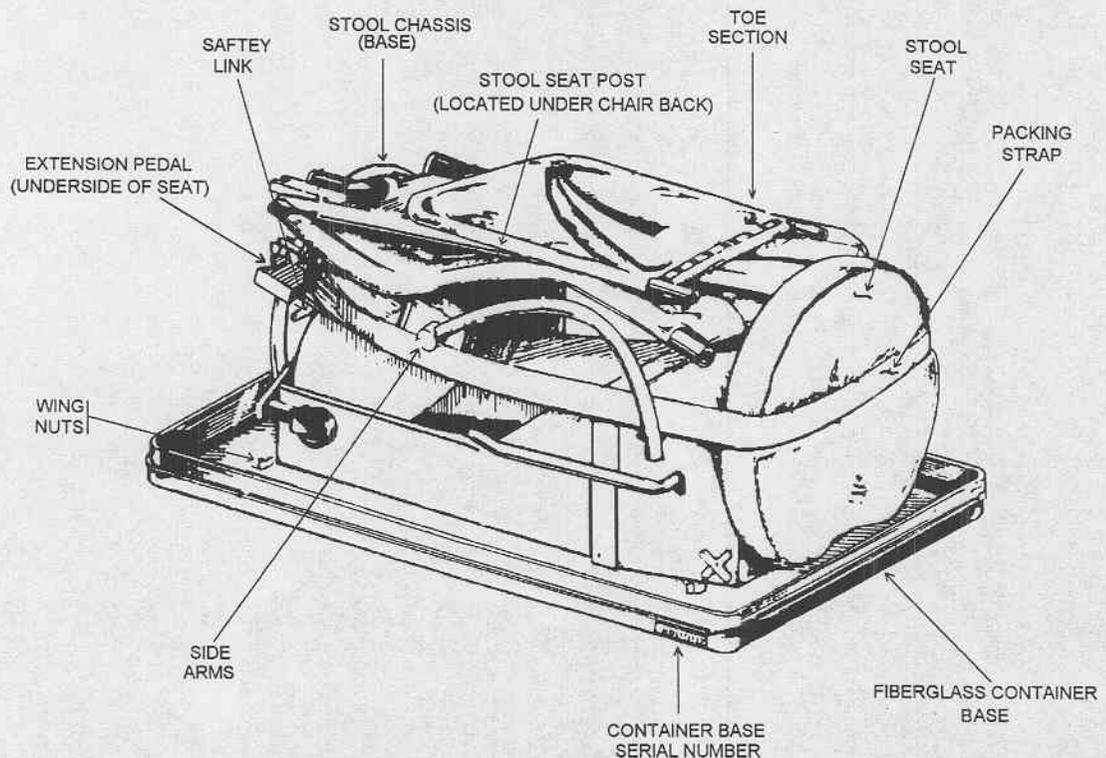


Figure 2-1. Packaged position.

NOTE

Open air relief valve.

- a. Release the 10 spring clamps on the exterior of the fiberglass container.
- b. Grasp the handles at each end of the container top and lift it off the container base. Place the container top aside for use when repacking the module.

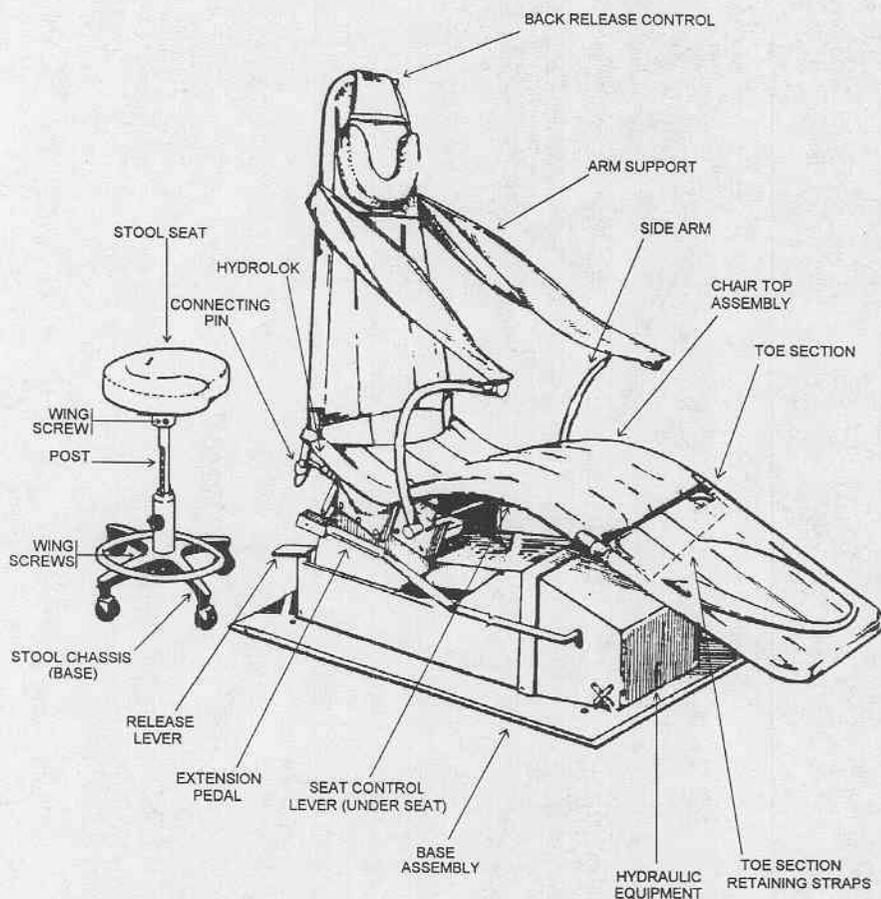


Figure 2-2. Assembled dental chair and stool.

- c. Remove the strap binding and the stool seat and base to the chair.
- d. Remove the stool seat and base and set aside.
- e. Remove the chair toe section and install it in the end of the chair seat frame.
- f. Fasten upholstery snap tabs to secure toe section to chair seat.
- g. Remove the connecting pin from the hydrolok actuator and safety link. Allow the safety link to hang free.
- h. Lift the chair back section to its upright position.
- i. Lift the hydrolok actuator and fit it into the chair back frame yoke. The end of the actuator may have to be turned slightly to align its holes with those in the yoke.
- j. Insert the connecting pin through the yoke and actuator. Lock the pin in place with the attached clip. Do not attempt to use a substitute pin.
- k. Pull the spring-loaded arms back and fit the ends of the patient arm supports over the ends of the arms.
- l. Remove the stool adjustment shaft and post assembly from the chair seat.
- m. Loosen the wing screws on the stool base hub. Remove the stool adjustment shaft and post assembly from its protective bag and insert the post assembly into the base. Tighten the wing screws to secure the post assembly to the stool base. (Keep the protective bag for reuse in repacking).
- n. Loosen the wing screw on the stool seat casting. Install the stool seat on the adjustment shaft making certain that the bearing is properly seated in the bearing race (in the seat casting.) Tighten the wing screw to secure the seat to the adjustment shaft.

- o. Remove the extension pedal from its clips under the chair seat frame and install it on the pump extension.
- p. Fold the base release pedal out.
- q. Disengage the seat control lever and tilt the chair back, slightly, to the operating position. Engage the lever to lock the chair in this position.

2-3. Permanent installation.

If permanent placement of the chair is desired, the chair and base are removable from the lower portion of the fiberglass container.

- a. Pump the extension pedal to bring the chair to its maximum height.
- b. Remove the large wing nuts securing the base plate to the fiberglass container.
- c. Unsnap and remove the toe section from the chair seat frame.
- d. Lift the combination chair and base from the container and place in the desired location.
- e. Replace the toe section.
- f. For additional stability the base plate may be anchored to the floor (depending on floor construction).

Section II. OPERATING INFORMATION

2-4. Operation.

a. Before seating the patient, adjust the speed of descent for the base. Pump the chair to its maximum height and close the base descent speed control by turning the knob fully clockwise on the assembled dental chair (fig 2-3).

b. Open the speed control slightly (approximately one turn counterclockwise) and depress the release lever. Repeat this step (opening the speed control in small increments and depressing the release lever) until a desirable rate of descent for the base is achieved. After completing this adjustment the patient may be seated.

c. Pull back on either spring-loaded arm to allow patient entry.

d. Pump the chair up to the desired operating height.

e. Adjust the headrest to accommodate the patient and position the oral cavity.

f. Depress the back release control button and recline the back section of the chair to the desired operating position.

g. The operator stool seat height may be adjusted by pulling out the adjustment stop and raising or lowering the seat to a comfortable position.

h. To allow the patient to exit, depress the back release control button and raise the back section to near vertical position. Depress the release lever and lower the base. Pull back on either spring-loaded arm and the patient may exit to that side of the chair.

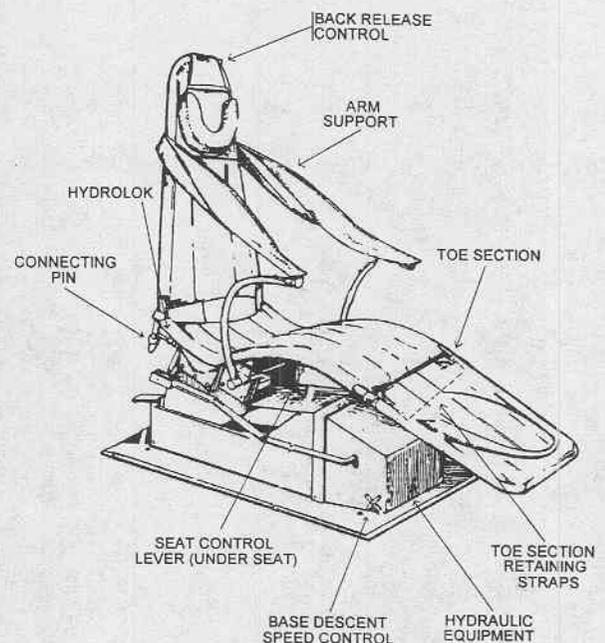


Figure 2-3. Dental chair operation.

Section III. DISASSEMBLY FOR REPACKING

2-5. Disassembling the unit.

- a. Lower the base fully.
- b. Unsnap the upholstery tabs securing the toe section to the chair seat. Remove the toe section.
- c. Disengage the seat control lever and pivot the chair toward the toe section on the collapsed position as shown in figure 2-4. Engage the seat control lever in the lowest position.

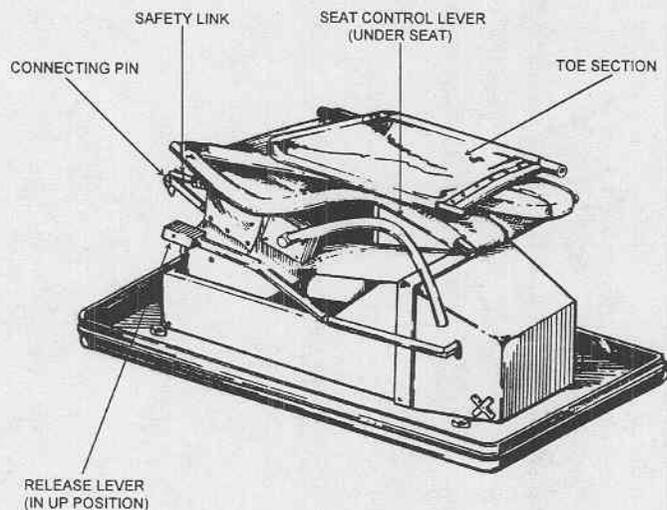


Figure 2-4. Collapsed position.

- d. Depress the back release control button and position the back section so that the holes in the end of the hydrolok actuator align with the hole in the safety link.
- e. While supporting the back section, remove the connecting pin from the end of the actuator. Be sure this is accomplished before proceeding so that the stool saddle seat will properly fit. If back release control button is accidentally depressed before the safety link is secured, it will be necessary to reassemble the chair back to the power actuator to acquire the proper position of the actuator in relationship to the safety link.
- f. Align the safety link with the actuator and replace the connecting pin on the collapsed position.
- g. Loosen the wing screw in the saddle seat casting. Remove the seat from the adjustment shaft.
- h. Loosen the wing screws in the stool base hub. Remove the adjustment shaft and post assembly from the stool base.
- i. Place the adjustment shaft and post assembly in its storage bag. Place the storage bag on the chair seat.
- j. Disengage the patient arm supports from the spring-loaded arms. Fold the supports and place them in the chair seat.
- k. Fold the back section over the chair seat.
- l. Position the stool seat at the front of the chair base and the stool base at the rear of the chair base (with casters toward chair). See packaged position as shown in figure 2-1.
- m. Bind the stool seat and stool base to the chair with the packing strap.
- n. Place the toe section on the top of the chair back section.

- o.* Place the operating manuals on top of toe section.
- p.* Place the fiberglass container top over the module. Secure the top to the container base with the spring clamps.

Section IV. OPERATION OF AUXILIARY EQUIPMENT

2-6. Associated support items of equipment.

The dental chair and stool unit is used in conjunction with the following items of equipment:

- a.* Light Set, Dental Operating, Field; 6520-00-000-0158; TM 8-6520-001-24&P.
- b.* Dental Operating and Treatment Unit, Field, Portable; 6520-01-272-4531; TM 8-6520-002-24&P.

Section V. CLEANING, DISINFECTING, AND STERILIZING PROCEDURES

2-7. General.

a. The dental chair and stool unit should be clean at all times. Keep the unit free of dust and debris by dusting and vacuuming.

b. Wipe the upholstery with a damp cloth using a mild soap. Do not use excessive water. Dry cleaned areas.

Section VI. OPERATION UNDER UNUSUAL CONDITIONS

2-8. Unusual conditions.

The dental chair and stool unit is designed to operate within a tent, an International Standards Organization (ISO) shelter, or any kind of permanent shelter or building.

CHAPTER 3

UNIT LEVEL MAINTENANCE

Section I. GENERAL INFORMATION

3-1. Overview.

a. Unit level maintenance. This level of maintenance is the responsibility of and performed by a using unit on its assigned equipment. Responsibilities are stratified as follows:

(1) *Operator maintenance.* This segment of unit level maintenance is performed by operator/user personnel and consists of equipment operational functions; routine services like cleaning, dusting, washing, checking for frayed cables, and stowing items not in use; and checking for loose hardware, replacing operator accessories, and replacing operator repair parts. Replacing operator parts will not require extensive disassembly or assembly of the end item, critical adjustments after replacement, or the extensive use of tools.

(2) *Specialist maintenance.* This segment of unit level maintenance is performed only by trained Medical Equipment Repairers. The functions and services include—

(a) Scheduling and performing PMCS, electrical safety inspections and tests, and calibration/verification/certification (CVC) services.

(b) Performing unscheduled maintenance functions with emphasis on replacing assemblies, modules, or printed circuit boards (PCBs), when available.

(c) Operating a repair parts program to include Class VIII repairs as well as other commodity class repair parts used on medical equipment.

(d) Maintaining a library of technical manuals (TMs), manufacturers' literature, repair parts information, and related materials.

(e) Conducting inspections on new or transferred equipment.

(f) Establishing administrative procedures of the control and administration of maintenance services in accordance with TB 38-750-2.

(g) Notifying support maintenance battalions of requirements and/or evacuating unserviceable equipment, assemblies, or modules.

b. Maintenance functions. Maintenance functions, both preventive and corrective, which are beyond the scope of the operator/user are assigned to unit level Maintenance Equipment Repairer personnel. These personnel will perform the majority of maintenance required for the equipment except some tasks involving the hydraulic pump and cylinder.

3-2. Tools and test equipment.

Common tools and test equipment required for maintenance of the equipment are listed in appendix B, section III of this manual. Refer to your unit's modified table of organization and equipment (MTOE) for authorized items.

3-3. Components of end item and basic issue items.

Components of end item and basic issue items are listed in appendix C, sections II and III of this manual.

3-4. Expendable supplies.

Expendable and durable supplies and materials required for maintenance of the equipment are listed in appendix D, section II of this manual.

3-5. Repair parts.

Repair parts required for unit level maintenance are listed in appendix E, section II of this manual.

3-6. Special tools.

Special tools required for unit level maintenance of the equipment are listed in appendix E, section III of this manual.

Section II. SERVICE UPON RECEIPT OF EQUIPMENT

3-7. Unpacking the dental chair and stool unit.

Unpack and assemble the dental chair and stool unit by following the unpacking and assembling procedures in paragraph 2-2 of this manual.

Section III. LUBRICATION INSTRUCTIONS

3-8. General.

Apply a small quantity of petroleum jelly to the lever arm pivots every 6 months. No other lubrication is required except as specified during repair or replacement procedures.

NOTE

The application of petroleum jelly to the lever arm pivots should be changed to a quarterly interval when the unit is used in warm, humid environments.

Section IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3-9. General.

a. The dental chair and stool unit must be inspected and serviced systematically to ensure that it is ready for operation at all times. Inspection will allow defects to be discovered and corrected before they result in serious damage or failure.

b. Table 3-1 contains a list of items to be performed by unit level operator/user personnel. This PMCS table is also referred to as "-10 PMCS" requirements. There are things operator/user personnel should do any time they need to be done, such as checking for general cleanliness, observing for improper operational indicators, and maintaining the proper quantities of operating supplies.

c. Table 3-2 contains a list of items to be performed by unit level Medical Equipment Repairers. This PMCS table is also referred to as "-20 PMCS" requirements.

d. Some items to be inspected will be listed in both table 3-1 and table 3-2 to stress their importance, to provide a quality control check on multiple operator/user personnel, and to identify more comprehensive procedures to be accomplished by unit level Medical Equipment Repairers.

e. The following is a list of the PMCS table column headings with a description of the information found in each column:

(1) *Item No.* This column shows the sequence in which to do the PMCS, and is used to identify the equipment area on the Equipment Inspection and Maintenance Worksheet, DA Form 2404.

(2) *Interval.* This column shows when each PMCS item is to be serviced: B - Before Operation, D - During Operation, A - After Operation, Q - Quarterly, and S - Semiannually. B, D, and A should be performed with daily use of the equipment.

NOTE

When the dental chair and stool unit must be kept in continuous operation, check and service only those items that will not disrupt operation. Perform the complete daily checks and services when the equipment can be shut down.

(3) *Item to be Inspected and Procedure.* This column identifies the general area or specific part to be checked or serviced.

(4) *Equipment is not Ready/Available If.* This column lists conditions that make the equipment unavailable or unusable.

Table 3-1. Operator preventive maintenance checks and services.

ITEM NO	INTERVAL					ITEM TO BE INSPECTED AND PROCEDURE	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	Q	S		
1	X		X		X	<p>Dental chair and stool unit.</p> <p>a. Ensure that all components are on hand.</p> <p>b. Verify proper assembly and operation of the dental chair.</p> <p>c. Check for any oil on the base plate, around the base covers or in the container bottom section.</p> <p>d. Verify proper assembly and operation of the stool.</p>	<p>Missing components prevent use of the dental chair and stool.</p> <p>Incorrect assembly or operation of the dental chair prevents the treatment of patients.</p> <p>The loss of oil in the hydraulic system prevents operation of the dental chair.</p> <p>Incorrect assembly or use of the stool prevents the treatment of patients.</p>
2					X	<p>Case.</p> <p>a. Inspect for cracks, major dents, or puncture holes.</p> <p>b. Check for bent, loose, or broken latches.</p>	<p>Case damage prevents protective storage or safe movement of the unit.</p> <p>Unserviceable latches prevent safe movement.</p>

Table 3-2. Repairer preventive maintenance checks and services.

ITEM NO	INTERVAL					ITEM TO BE INSPECTED AND PROCEDURE	EQUIPMENT IS NOT READY/AVAILABLE IF:
	B	D	A	Q	S		
1					X	<p>Dental chair.</p> <p>a. Verify that components have been inventoried by operator/user personnel.</p> <p>b. Verify proper assembly and operation of the dental chair.</p> <p>c. Check for any oil on the base plate, around the base covers, or in the container bottom section.</p> <p>d. Inspect the upholstery snaps for proper fastening.</p> <p>e. Check operation of the hydrolok assembly in the chair back.</p>	<p>Missing components prevent operation of the dental chair.</p> <p>Incorrect assembly or operation of the dental chair prevents the treatment of patients.</p> <p>The loss of oil in the hydraulic system prevents operation of the dental chair.</p> <p>Damaged or missing upholstery snaps prevent use of the dental chair.</p> <p>An inoperable hydrolok assembly prevents use of the dental chair.</p>
2					X	<p>Stool.</p> <p>Verify proper assembly and operation of the stool.</p>	<p>Incorrect assembly or operation of the stool prevents the treatment of patients.</p>
3					X	<p>Case.</p> <p>a. Inspect for cracks, major dents, or puncture holes.</p> <p>b. Check for bent, loose, or broken latches.</p>	<p>Case damage prevents protective storage or safe movement of the unit.</p> <p>Unserviceable latches prevent safe movement.</p>

3-10. Reporting deficiencies.

If operator personnel discover problems with the equipment during "-10 PMCS" that they are unable to correct, they must report them. Refer to TB 38-750-2 and report the deficiency using the proper forms. Consult with your unit level Medical Equipment Repairer if you need assistance.

Section V. TROUBLESHOOTING

3-11. General.

a. Specific troubleshooting information for locating and correcting many of the operating malfunctions which may develop in the dental chair and stool unit may be found in the troubleshooting tables. Symptoms are provided for common malfunctions. Each symptom is followed by possible causes and corrective maintenance. Upon completion of the corrective maintenance, the component or assembly should be cleaned and lubricated, then reassembled and the unit tested.

b. This manual cannot list all possible malfunctions. If a malfunction is either not listed or is not determined by routine diagnostic procedures, notify your appropriate maintenance support unit.

Table 3-3. Operator/user troubleshooting.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE MAINTENANCE
1. OIL FILM APPEARS AROUND BASE OF DENTAL CHAIR.	Hydraulic system leaking.	Notify your unit Medical Equipment Repairer.
	Normal operation.	Notify your unit Medical Equipment Repairer if excessive oil is observed or the unit frequently leaks oil.
2. DENTAL CHAIR DOES NOT ELEVATE.	Hydraulic system leaking.	Notify your unit Medical Equipment Repairer.
	Hydraulic system malfunctioning.	Notify your unit Medical Equipment Repairer.
3. DENTAL CHAIR BACK SECTION DOES NOT HOLD POSITION.	Defective hydrolock assembly.	Notify your unit Medical Equipment Repairer.
4. STOOL DOES NOT HOLD ELEVATED POSITION.	Defective stop assembly.	Notify your unit Medical Equipment Repairer.

Table 3-4. Medical Equipment Repairer troubleshooting.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE MAINTENANCE
1. OIL APPEARS AROUND BASE OF DENTAL CHAIR.	Fatigue rupture of hoses.	Identify leaking hose and replace it.
	Defective o-rings.	Identify defective o-rings and replace them as required.
	Leaking mechanical connection.	Identify source of oil leak and repair unit as necessary.
2. SEAT CANNOT BE ADJUSTED.	Lever arm pivots rusted.	Clean and lubricate lever arm pivots and slide pins.
	Controls defective.	Repair or replace the speed descent control or the release lever as necessary.
3. CHAIR BACK SECTION DOES NOT HOLD POSITION.	Defective back release control button.	Repair or replace button.
	Defective hydrolok assembly.	Replace the hydrolok assembly.

Section VI. REPAIR PROCEDURES

3-12. Base assembly (fig 3-1).

This structure is sound and should require a minimum of service. The nylon bearings in the pivot points of the lift and the pivot pins are lightly coated during initial assembly with petroleum jelly and should not require further lubrication. Should a need arise to replace a lift arm pivot bearing, this may be accomplished as follows:

- a. Raise the chair about 4/5 of the way to maximum height.
- b. Tip chair and base over on their side.
- c. Loosen set screw at each end of the hinge pin, that rests in the defective bearing, and slide the pin out.
- d. Slide lift arm out of place, remove the defective flanged nylon bearing and replace it with a new one, lightly coated with petroleum jelly.
- e. Replace all components exactly in the reverse order from that stated above. Be very sure to re-tighten the set screws.
- f. Now reposition the base and chair upright again.

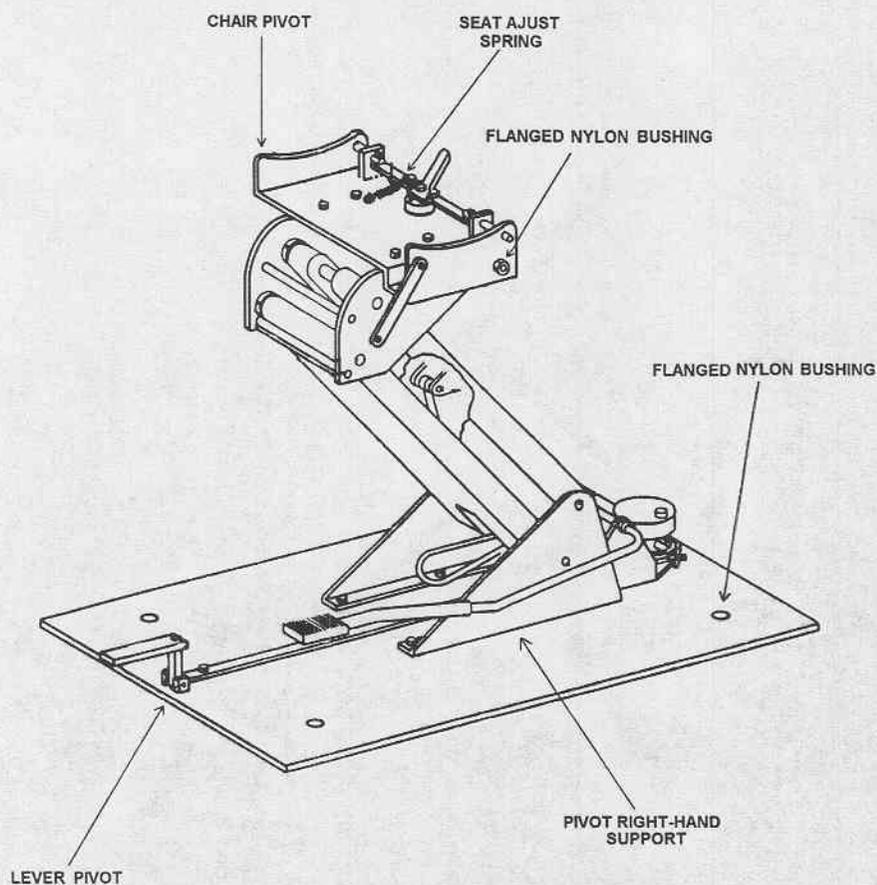


Figure 3-1. Base structure.

3-13. Hydraulic support pump assembly (fig 3-2).

Normal wear of o-rings, fatigue rupture of hoses, and loss of oil are the only factors that affect the function of the hydraulic system. None of these factors are frequent, but require immediate attention because of loss of oil or improper lift function. If repairs are needed in this section, the complete support pump assembly should be removed from the base assembly. Remove the hydraulic system as follows:

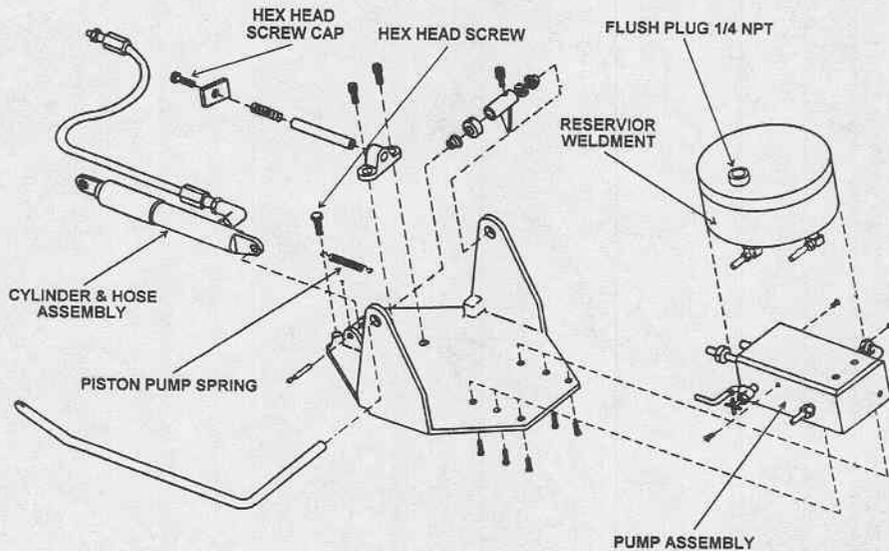


Figure 3-2. Hydraulic support pump assembly.

a. With chair in the container bottom, and the unit placed on a work bench, pump the chair up in order to place the stool base as shown in figure 3-3. This will provide safe support for the chair and lift while the hydraulic system is removed. Depress release pedal to relieve hydraulic pressure.

b. Loosen 1/4 inch set screw locking the upper pivot pin of the hydraulic cylinder and remove the pivot pin. Note nylon bearings in upper cylinder clevis.

c. Remove two screws, with spacers, holding the release pedal actuating rod to the base plate.

d. Remove four screws holding the pump cover and remove cover.

e. Remove six hex nuts holding the hydraulic assembly to the base plate.

f. Lift the hydraulic assembly off of the mounting screws and bring the assembly forward and out from the base. Repairs can now be made to the hydraulic system.

g. To drain oil from the system, remove the bleed screw from the cylinder cap, place a clean container under the opening, and pump excess oil from cylinder. Replace bleed screw. Disconnect hose at swivel fitting at pump end of hose. A 1/4-npt plug placed into the swivel coupling will reduce oil loss at this point.

h. The hydraulic cylinder is of the displacement type, having no formal piston packing and the only wear factor is the o-ring in the cap. The cylinder and hose must be removed from the hydraulic system to disassemble and reassemble. Loosen the 1/4 set screw locking the lower pivot pin and push the pin out of the clevis. After cylinder removal, excess oil in the cylinder may be manually pumped out through the open end of the hose and cylinder may be disassembled. Carefully remove the nylon bearings from the piston rod end of the cylinder to slide the cylinder cap off.

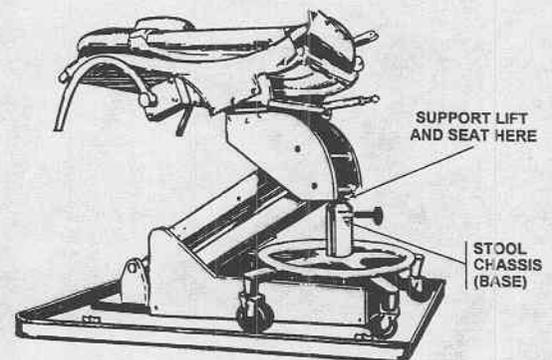


Figure 3-3. Stool base.

i. To replace unserviceable o-rings in the pump assembly, access is best gained by removing the pump and reservoir from the hydraulic assembly base plate.

NOTE

If one o-ring requires replacement, all rings should be replaced.

(1) Loosen two hex head screws holding the release valve actuating rod and spring. Maintain thumb and finger compression on the spring while removing this assembly.

(2) Remove the socket head screw locking the pump control lever to the foot control arm.

(3) Using a flat screwdriver to lever the spring tension off of the pump control lever, slide the control lever toward the release piston and then slowly release the tension on the piston pump spring.

(4) Remove the hex head screw anchoring the pump spring and remove the spring from the pump piston stop.

(5) Turn the support assembly on its side and remove the six flat head slotted screws holding the pump and reservoir to the support base.

(6) The o-rings may be replaced by removing the pump piston and release valve stem inserts from the pump body.

(7) The reservoir outlet fitting includes a wire cloth filter. If there is indication of oil contamination, this fitting should be removed and the filter cleaned.

j. Reassemble the hydraulic system by reversing the disassembly steps given above. When reinstalling the pump piston and insert, ensure that the 3/16-inch ball (fig 3-4) is seated under the pump piston.

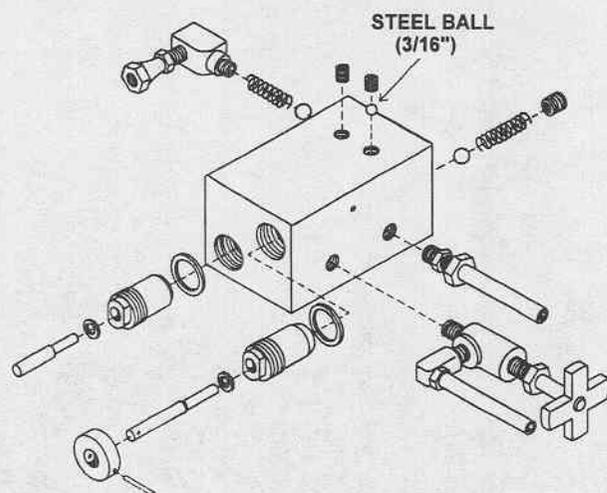


Figure 3-4. Pump piston installation.

3-14. Chair top assembly (fig 3-5).

The upholstery cover of this assembly including the toe section protective cover is slipped over a tubular frame and fastened by means of snaps appropriately placed to prevent sags and puckers. It is, therefore, very simple to replace any section of the upholstery that is damaged or worn out in service. The operation is quickly accomplished both for removal and replacement.

3-15. Seat control (fig 3-5).

This control provides two tilt positions by means of pins that engage appropriate holes in the tilt casting at each side of the chair. A small quantity of machine oil applied to the lever arm pivots every six months will keep these operating smoothly; also apply a small quantity of petroleum jelly to the slide pins every six months. In warm humid areas the frequency of these applications may have to be increased, depending upon the severity of the local conditions. Replacement of parts should not normally be necessary but when required, components may be replaced by removing shoulder bolts with a screwdriver or Allen wrench.

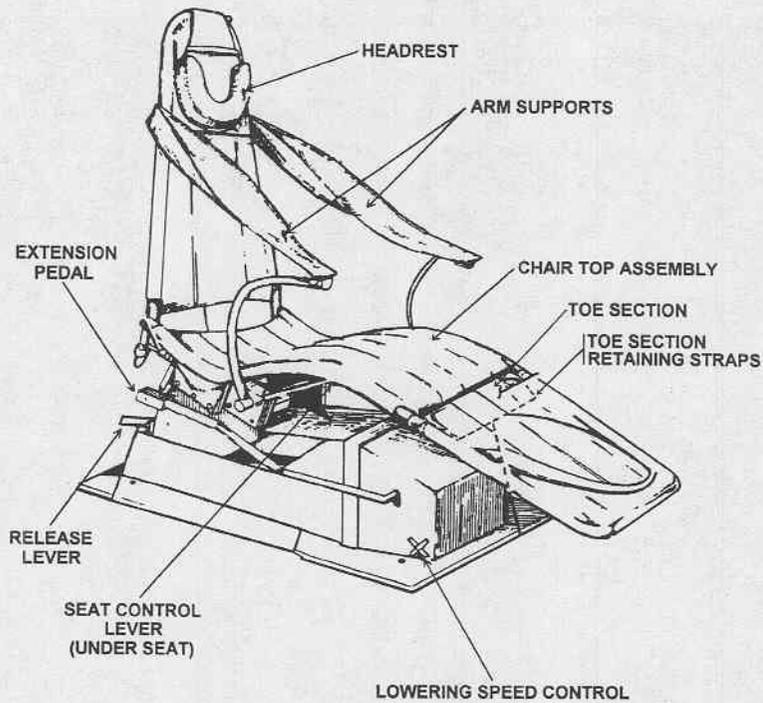


Figure 3-5. Chair upholstery and controls.

3-16. Hydrolok assembly.

a. This unit is an integral assembly that is not capable of disassembly; it must therefore be replaced as a complete unit. The control cable may be separated from the cylinder however after both have been removed from the chair. It is therefore possible to replace either the cylinder or the control cable as required.

b. To remove the hydrolok assembly (fig 3-7), remove the connecting pin and nut.

c. To reassemble, follow the previous instructions in the reverse direction.

3-17. Case (fig 3-6).

NOTE

Should the carrying case gasket seal require replacement, use tubing NSN 4720-00-141-9063. The 2674-001 case incorporates riveted latches and an air relief valve.

Repair services for the case do not require detailed instructions.

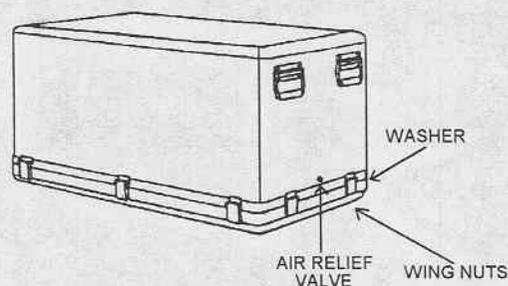


Figure 3-6. Case.

3-18. General repair information.

Upon completion of any repair certain adjustments may be necessary to restore satisfactory performance. Spongy operation is usually due to air trapped in the hydraulic system.

a. Remove trapped air in the hydraulic system by one of two methods: if the amount is small it will usually purge itself after a few operations of the base through its full height adjustment. If this means proves inadequate, loosen a screw that appears at the top end of the lift cylinder (fig 3-7) and pump the foot pedal until a small amount of oil issues; at this point, re-tighten the screw and wipe the leaked oil from the cylinder.

b. Adjust the lowering speed control by turning the control knob (fig 3-8) clockwise to reduce the speed of descent and, conversely turn the knob counterclockwise to increase the speed of descent.

c. To add oil to the reservoir, remove the plug and raise the chair to its maximum height. Check level of oil by inserting the tip of a screwdriver or some other instrument. Oil level should come up to 1/2 inch depth. If the depth is less than 1/2 inch, add enough oil to attain the level.

d. Replace the plug and tighten, then lower the chair. This method will always assure a positive pressure in the tank. This sufficient pressure is necessary to ensure closing of ball valves and to ensure oil flow to the pump chamber at a sufficiently rapid rate to ensure satisfactory operation.

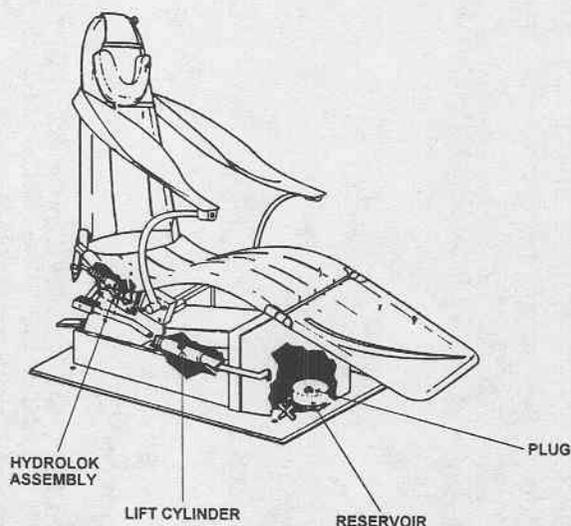


Figure 3-7. Hydraulic system.

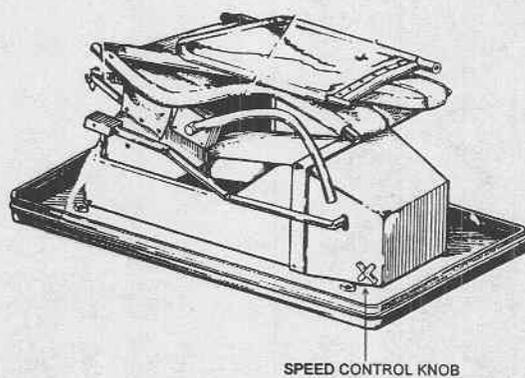


Figure 3-8. Speed control knob.

Section VII. STORING AND SHIPPING PROCEDURES

3-19. Preparation for storing.

Prepare the dental chair and stool for storage by following the instructions in paragraph 2-5 of this manual.

3-20. Preparation for shipping.

The dental chair and stool unit, packed in its case, is suitable for shipping. Notify your unit transportation point for assistance, if necessary.

CHAPTER 4

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

Section I. GENERAL INFORMATION

4-1. Overview.

This chapter provides for maintenance that is beyond the capability, capacity, and authorization for unit level maintenance personnel. The procedures in this chapter should not be attempted at the unit level.

4-2. Tools and test equipment.

Common tools and test equipment required for support maintenance of the equipment are listed in appendix B, section III. Refer to your unit's MTOE or installation table of distribution and allowances (TDA) for authorized items.

4-3. Components of end item and basic issue items.

Components of end item and basic issue items are listed in appendix C, sections II and III.

4-4. Expendable supplies.

Expendable and durable supplies and materials for support maintenance are listed in appendix D, section II.

4-5. Repair parts.

Repair parts required for support maintenance are listed in appendix E, section II.

4-6. Special tools.

Special tools required for support maintenance are listed in appendix E, section III.

Section II. MAINTENANCE PROCEDURES

4-7. General.

There are no specific troubleshooting procedures for DS/GS levels of maintenance.

APPENDIX A

REFERENCES

A-1. Army regulations.

AR 40-61	Medical Logistics Policies and Procedures
AR 710-2	Supply Policy Below the Wholesale Level
AR 725-50	Requisitioning, Receipt, and Issue System
AR 750-1	Army Materiel Maintenance Policy and Retail Maintenance Operations

A-2. Technical manuals.

TM-DPSC-6500-RPL	Medical Materiel: Medical Repair Parts Reference List
TM 8-6520-001-24&P	Light Set, Dental Operating, Field
TM 8-6520-002-24&P	Dental Operating and Treatment Unit, Field, Portable
TM 8-6520-003-24&P	Compressor-Dehydrator, Dental

A-3. Technical bulletins.

TB MED 7	Maintenance Expenditure Limits for Medical Materiel
TB 8-6500-MPL	Mandatory Parts List for Medical Equipment
TB 38-750-2	Maintenance Management Procedures for Medical Equipment
TB 740-10/DLAM 4155.5/AFR 67-43	Quality Control, Depot Storage Standards, Appendix M, Medical Supplies

A-4. Field manual.

FM 21-11	First Aid for Soldiers
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A-5. Supply bulletin.

SB 8-75-()-series	Army Medical Department Supply Information
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A-6. Other publication.

(This publication may be obtained from U.S. Army Medical Materiel Agency, 1423 Sultan Drive, Suite 100, ATTN: MCMR-MMM, Fort Detrick, MD 21702-5001.)

Operating and Maintenance Instructions (May 1992), Atlantic Industries, Inc., P.O. Box 1169, 999 Jenkins Road, Hardeeville, SC 29927-1169.

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. General.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. Section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance levels.

c. Section III lists the tools and test equipment required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions, explanatory notes, and/or illustrations required for a particular maintenance function.

B-2. Explanation of columns in section II.

a. *Group Number, Column 1.* The assembly group number (Group No.) column is a numerical group assigned to each assembly. The applicable assembly groups are listed in the maintenance allocation chart (MAC) in disassembly sequence beginning with the first assembly removed in a top down disassembly sequence.

b. *Assembly Group, Column 2.* This column contains a brief description of the components of each assembly group.

c. *Maintenance Functions, Column 3.* This column lists the various maintenance functions (A through K) and indicates the lowest maintenance level authorized to perform these functions. The symbol designations for the various maintenance levels are as follows:

- C - Operator or crew
- O - Unit maintenance
- F - Direct support maintenance
- H - General support maintenance
- D - Depot maintenance

The maintenance functions are defined as follows:

A - Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

B - Test. To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

C - Service. To clean, to preserve, to charge, and to add lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

D - Adjust. To rectify to the extent necessary to bring into proper operating range.

E - Align. To adjust specified variable elements of an item to bring it to optimum performance.

F - Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.

G - Install. To set for use in an operational environment such as tents or ISO shelters.

H - Replace. To replace unserviceable items with serviceable like items.

I - Repair. Those maintenance operations necessary to restore an item to serviceable condition through correction of material damage to a specific failure. Repair may be accomplished at each level of maintenance.

J - Overhaul. Normally the highest degree of maintenance performed by the Army in order to minimize time work in process consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by a maintenance standard in technical publications for each item of equipment. Overhaul normally does not return an item to like new condition.

K - Rebuild. The highest degree of material maintenance. It consists of restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance level.

d. *Tools and Equipment, Column 4.* This column is provided for referencing by code, the tools and test equipment (sec III) required to perform the maintenance functions.

e. *Remarks, Column 5.* This column is provided for referencing by code, the remarks (sec IV) pertinent to the maintenance functions.

B-3. Explanation of columns in section III.

a. *Reference Code, Column 1.* This column correlates to section II, column 4.

b. *Maintenance Level, Column 2.* This column identifies the maintenance levels using the tools and test equipment.

c. *Nomenclature, Column 3.* This column identifies the tools and test equipment.

d. *National Stock Number, Column 4.* This column provides the national stock number of the specific tools or test equipment.

B-4. Explanation of columns in section IV.

a. *Reference Code, Column 1.* This column correlates to section II, column 5.

b. *Remarks, Column 2.* This column provides supplemental information or explanatory notes pertinent to the maintenance function in section II.

**Section II. MAINTENANCE ALLOCATION CHART
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) GROUP NO.	(2) ASSEMBLY GROUP	(3) MAINTENANCE FUNCTIONS											(4) TOOLS AND EQUIPMENT	(5) REMARKS	
		A	B	C	D	E	F	G	H	I	J	K			
00	Chair	O 0.5											D 10.0	01,02	A
01	Pump Assembly	O 0.1	O 0.1						O 1.0	O 1.5	F 1.5			01,02	A
02	Cylinder Assembly	O 0.1	O 0.1						O 0.3	O 0.5	F 0.5			01,02	A
03	Reservoir	O 0.1							O 0.3					01,02	A
031	Filter	O 0.2							O 0.2						
04	Hydrolok Assembly	O 0.1							O 1.0					01	A
041	Hydrolok Button	O 0.1							O 0.1	O 0.1					
042	Back Release	O 0.1							O 0.1						
05	Power Arm	O 0.1							O 0.3	O 0.3				01,02	A
051	Arm Support	O 0.1							O 0.1						
06	Pump Release Assembly	O 0.1									O 0.3			01	A
07	Seat Adjust Assembly	O 0.1							O 1.0	O 0.3				01	A
08	Foot Section	O 0.1							O 0.1					01	A

Section II. MAINTENANCE ALLOCATION CHART FOR DENTAL CHAIR AND STOOL UNIT

(1) GROUP NO.	(2) ASSEMBLY GROUP	(3) MAINTENANCE FUNCTIONS											(4) TOOLS AND EQUIPMENT	(5) REMARKS	
		A	B	C	D	E	F	G	H	I	J	K			
081	Cover								O 0.2					01	
09	Seat Cover	O 0.1							O 0.2					01	A
10	Back Cover	O 0.1							O 0.2					01	A
11	Head Rest	O 0.1							O 0.2					01	A
12	Stool Unit	O 0.1									O 0.2			01	A
13	Container	O 0.1									O 0.5			01,02	A
131	Latch								O 0.5						
132	Pressure Relief Valve								O 0.5						
133	Gasket								O 0.5						

**Section III. TOOLS AND TEST EQUIPMENT
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER
01	O,F,H,D	Tool Kit, Medical Equipment Maintenance and Repair: Repairmans	5180-00-611-7923
02	O,F,H,D	Tool Kit, Medical Equipment Maintenance and Repair: Organizational	5180-00-611-7924

**Section IV. REMARKS
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) REFERENCE CODE	(2) REMARKS
A	Tools and test equipment are listed for each assembly group.

APPENDIX C

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST

Section I. INTRODUCTION

C-1. Scope.

This appendix lists components of end item and basic issue items for the equipment to help you inventory items required for safe and efficient operation.

C-2. General.

The Components of End Item and Basic Issue Items list are divided into the following sections.

a. Section II. Components of End Item. These items are part of the end item, but are removed and separately packaged for transportation or shipment. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the equipment in operation, to operate it, and to perform emergency repairs. Basic issue items must be with the equipment during operation and whenever it is transferred between property accounts. This manual is your authority to request or requisition basic issue items, based on MTOE authorization of the end item.

C-3. Explanation of columns.

The following provides an explanation of columns found in both listings:

a. Item Number, Column 1. This column indicates the item number assigned to the item.

b. National Stock Number, Column 2. This column indicates the national stock number assigned to the item.

c. Description, Column 3. This column indicates the federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the commercial and government entity (CAGE) code in parentheses followed by the part number.

d. Unit of Measure, Column 4. This column indicates the unit of measure used in performing the actual operational or maintenance function. This measure is expressed by a two-character alphabetical abbreviation. These abbreviations are listed in the glossary.

e. Quantity, Column 5. This column indicates the quantity (QTY) of the item(s) provided with the equipment.

**Section II. COMPONENTS OF END ITEM
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEASURE	(5) QTY
1	6520-01-136-5831	Chair and Base	EA	1
2	6520-01-136-5840	Stool	EA	1
3	6520-01-136-5826	Case (01KZ9) 2674-001	EA	1

**Section III. BASIC ISSUE ITEMS
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) ITEM NUMBER	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEASURE	(5) QTY
1		Operating and Maintenance Manual	EA	2

APPENDIX D

EXPENDABLE AND DURABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. Scope.

This appendix lists expendable and durable supplies and materials that are required to maintain the equipment. This listing is authorization to requisition and retain the items if not otherwise authorized.

D-2. Explanation of columns.

a. Item Number, Column 1. The item number (Item No.) is sequentially assigned.

b. Level, Column 2. This column identifies the lowest level of maintenance that requires the listed item. An explanation of the alphabetical character is provided in appendix B, section I of this manual.

c. National Stock Number, Column 3. This column indicates the national stock number assigned to the item.

d. Description, Column 4. This column indicates the federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the CAGE code in parentheses followed by the part number.

e. Unit of Measure, Column 5. This column indicates the unit of measure used in performing the actual operational or maintenance function. This measure is expressed by an alphabetical abbreviation. These abbreviations are listed in the glossary.

f. Quantity, Column 6. This column indicates the quantity (QTY) of the item(s) provided with the equipment.

**Section II. EXPENDABLE AND DURABLE SUPPLIES AND MATERIALS LIST
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) UNIT OF MEASURE	(6) QTY
1	O	9150-00-145-0112	Lubricating Oil, Machine Tool (81349) MIL-L-46017	EA	1
2	O	9150-00-250-0926	Petroleum, Technical (FOIII) AIR 3565A	EA	1
3	O	7920-01-004-7847	Cloth, Cleaning (97327) Rymple Cloth 301	RO	1

APPENDIX E

REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

E-1. Scope.

This manual lists spare and repair parts, special tools, special test equipment; and other special support equipment required for the performance of unit level, direct support, general support, and depot level maintenance. It authorizes the requisitioning and issue of spare and repair parts in consonance with the MAC (app B).

E-2. General.

The Repair Parts and Special Tools List is divided into the following sections:

a. Repair Parts, Section II. A list of repair parts authorized for the performance of maintenance in figure number and item number sequence.

b. Special Tools, Test, and Support Equipment, Section III. A list of special tools, test, and support equipment authorized for the performance of maintenance.

E-3. Explanation of columns in section II.

a. Illustration, Column 1.

(1) *Figure Number.* This column indicates the figure number (FIG NO.) of the illustration on which the item is shown.

(2) *Item Number.* This column indicates the item number (ITEM NO.) used to identify each item on the illustration.

b. National Stock Number, Column 2. This column indicates the national stock number assigned to the item.

c. Description, Column 3. This column indicates the federal item name of the item. The last line for each item indicates the CAGE code in parentheses followed by the part number.

d. Unit of Measure, Column 4. This column indicates the unit of measure used in performing the actual operational or maintenance function. This measure is expressed by a two-character alphabetical abbreviation.

e. Quantity, Column 5. This column indicates the quantity (QTY) of the item(s) to be used with or on the illustrated component, assembly, module, or end item.

E-4. Explanation of columns in section III.

a. Item Number, Column 1. This number is sequentially assigned.

b. Level, Column 2. This column identifies the lowest level of maintenance that requires the listed item. An explanation of the alphabetical character is provided in appendix B, section I of this manual.

c. National Stock Number, Column 3. This column indicates the national stock number assigned to the item.

d. Description, Column 4. This column indicates the federal item name and, if required, a minimum description to identify and locate the item. The last line for each item indicates the CAGE code in parentheses followed by the part number.

e. Unit of Measure, Column 5. This column indicates the unit of measure used in performing the actual operational or maintenance function. This measure is expressed by a two-character alphabetical abbreviation.

f. Quantity, Column 6. This column indicates the quantity (QTY) of the item(s) to be used with or on the illustrated component, assembly, module, or end item.

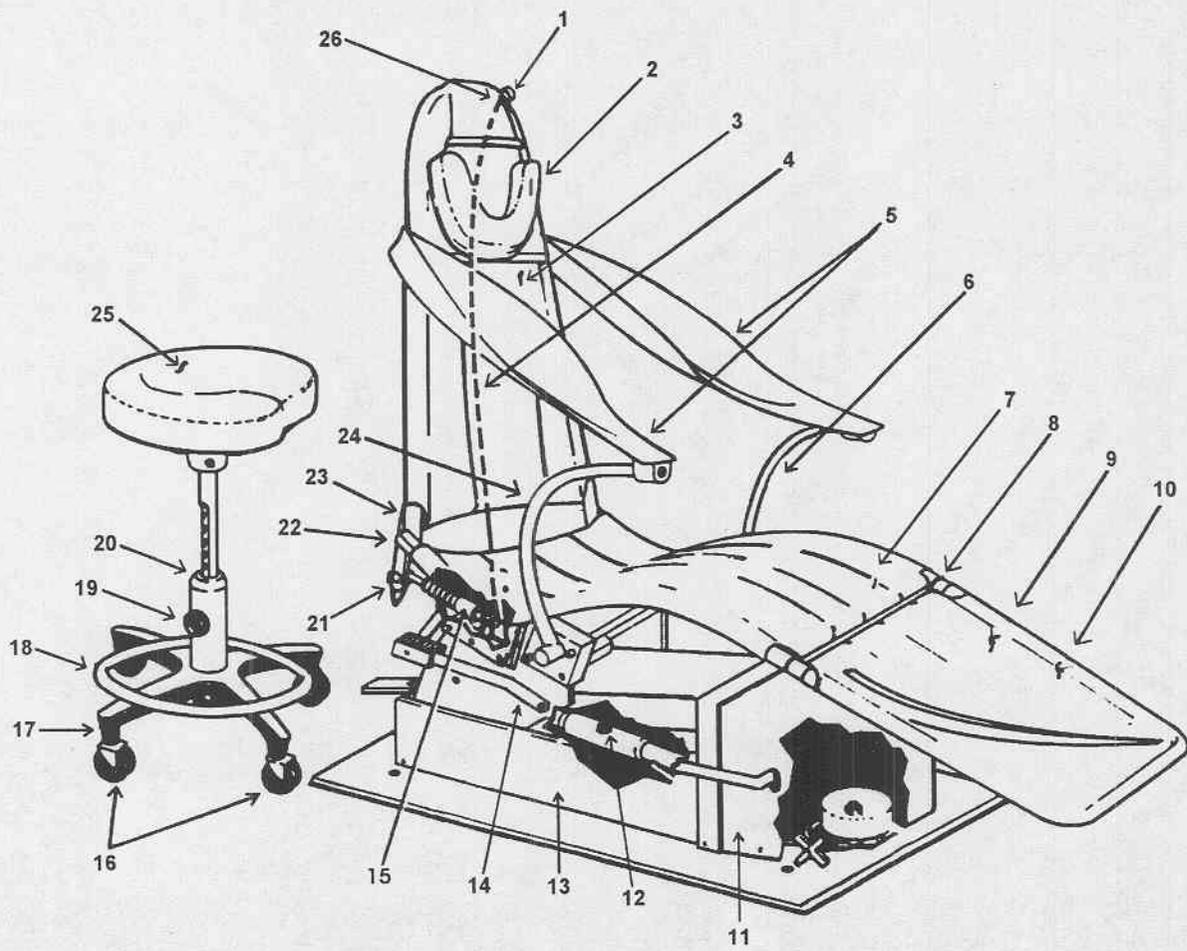


Figure E-1. Field chair, base, and stool.

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-1	1	6520-01-339-7609	Button, Hydrolok (01KZ9) 2524-0002	EA	1
E-1	2	6520-01-339-9498	Headrest (01KZ9) 3651-059	EA	1
E-1	3	6520-01-339-9495	Cover, Back (Chair) (01KZ9) 3542-001	EA	1
E-1	4	6520-01-339-7608	Back Release (01KZ9) 2688-001	EA	1
E-1	5	6520-01-339-9494	Arm Support (01KZ9) 3638-034	EA	2
E-1	6	6520-01-340-9529	Spring, Power Arm, Left (01KZ9) 3519-009	EA	1
E-1	7	6520-01-339-9496	Cover, Seat (Chair) (01KZ9) 3542-002	EA	1
E-1	8		Toe Frame, Aluminum (01KZ9) 3685-001	EA	1
E-1	9	6520-01-339-9497	Cover, Foot (Chair) (01KZ9) 3542-003	EA	1
E-1	10	6520-01-339-7600	Cover, Foot, Plastic (Chair) (01KZ9) 3543-021	EA	1
E-1	11		Cover, Pump (01KZ9) 2543-076	EA	1
E-1	12		Support Rod, Casting (01KZ9) 2534-023	EA	1
E-1	13		Shield, Right-hand (01KZ9) 2594-006	EA	1
E-1	14		Extension, Pedal Assembly (01KZ9) 3582-002	EA	1
E-1	15	3040-01-219-8584	Cylinder Assembly, Hydrolok (25692) 2689-001	EA	1
E-1	16		Caster (Stool) (01KZ9) 2529-004	EA	4
E-1	17		Base (Stool) (01KZ9) 2510-011	EA	1

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-1	18		Foot Ring (Stool) (01KZ9) 2591-052	EA	1
E-1	19		Stop Assembly (Stool) (01KZ9) 3552-004	EA	1
E-1	20		Post (Stool) (01KZ9) 2586-007	EA	1
E-1	21		Pin, Connecting (Hydrolok) (01KZ9) 2583-033	EA	1
E-1	22		Frame, Seat, Aluminum (01KZ9) 3614-007	EA	1
E-1	23		Frame, Back, Aluminum (01KZ9) 3531-012	EA	1
E-1	24	6520-01-339-7599	Spring, Power Arm, Right (01KZ9) 3519-010	EA	1
E-1	25		Saddle Seat (Stool) (01KZ9) 3614-085	EA	1
E-1	26		Set Screw (01KZ9) 1625-015	EA	1
E-1	*		Clamp, Foot Pedal Storage (01KZ9) 2533-029	EA	2
E-1	*		Strap, Assembly Packing (01KZ9) 3608-007	EA	1
			* Not illustrated.		

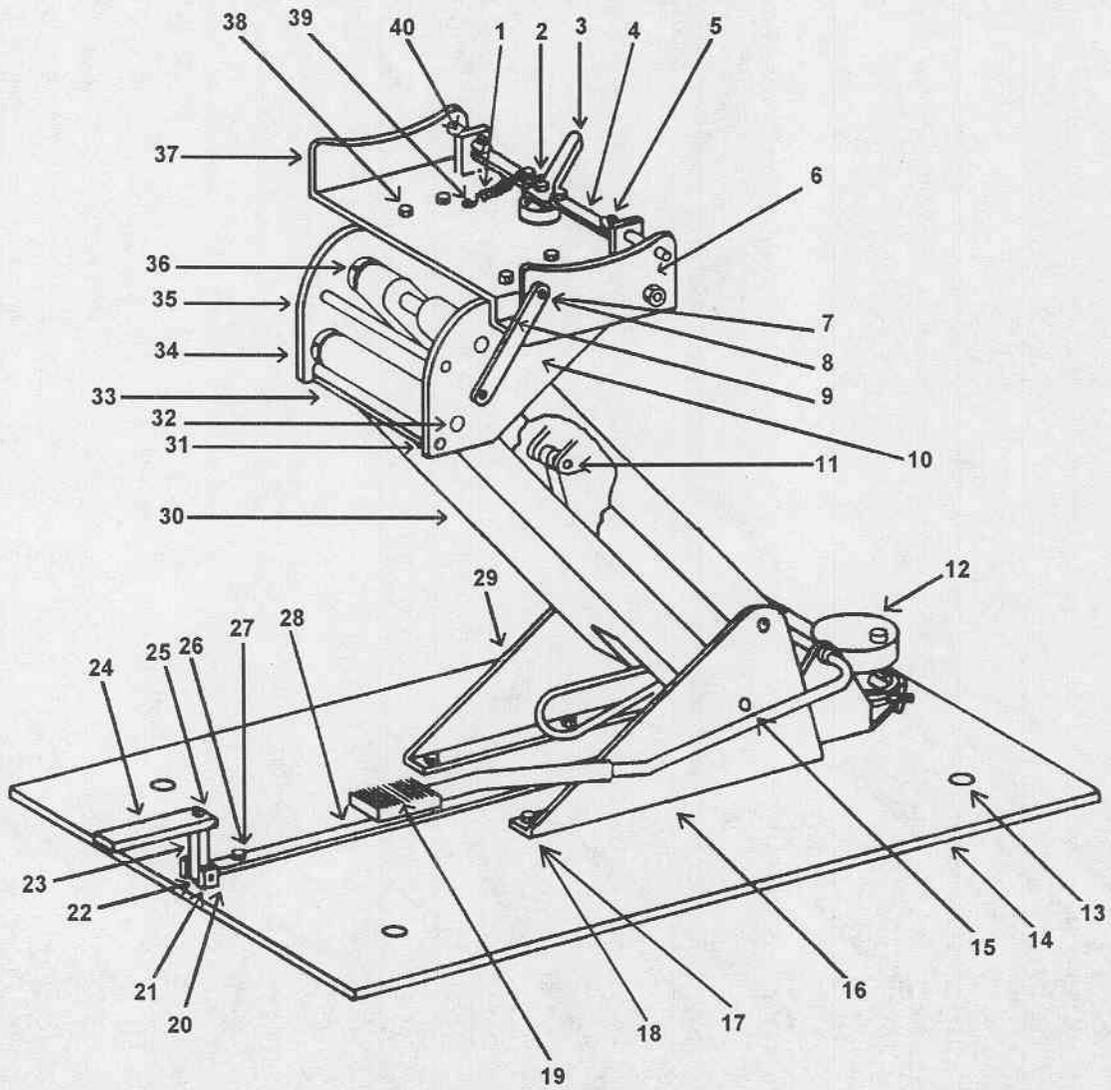


Figure E-2. Base assembly.

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-2	1	5360-01-340-0868	Spring, Seat Adjust (01KZ9) 2605-025	EA	1
E-2	2		Screw, 5/16 - 18, Socket Head Shoulder (01KZ9) 1626-008	EA	3
E-2	3		Lever, Seat Adjust (01KZ9) 2652-005	EA	1
E-2	4		Arm, Seat Adjust (01KZ9) 2501-056	EA	2
E-2	5		Screw, 10-32, Slotted, Round Head Shoulder (01KZ9) 1626-001	EA	4
E-2	6	3120-01-339-6351	Bushing, Flanged, Nylon, 3/8" id by 3/8-in Long (01KZ9) 1658-020	EA	2
E-2	7		Screw, Shoulder Hex Head, 0.498/0.497 dia by 0.265-in (01KZ9) 2642-020	EA	2
E-2	8		Screw, Hex, Washer Head, Taptite, 1/4-20 by 5/8-in (01KZ9) 1608-001	EA	1
E-2	9		Link, Safety, 1/8-in by 3/4-in, Steel (01KZ9) 2571-007	EA	1
E-2	10		Support, Right-hand (01KZ9) 2534-011	EA	1
E-2	11		Rod, Piston Support, 3/8-in, Steel (01KZ9) 2650-007	EA	1
E-2	12		Support, Pump Assembly (01KZ9) 3638-042	EA	1
E-2	13	3120-01-240-8681	Bushing, Flanged, Nylon, 9/16-in Bore by 13/32-in Long (01KZ9) 1658-013	EA	4
E-2	14		Plate, Floor (01KZ9) 2584-073	EA	1
E-2	15		Rod, Lift Arm (Short) (01KZ9) 2650-008	EA	2

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEASURE	(5) QTY
FIG NO.	ITEM NO.				
E-2	16		Support Pivot, Right-hand (01KZ9) 2534-004	EA	1
E-2	17		Screw, Flat Head, Phillips, 1/4 - 20 by 1-in (01KZ9) 1622-014	EA	14
E-2	18		Nut, Hex, 1/4 - 20 (01KZ9) 1605-019	EA	14
E-2	19		Pedal Assembly (01KZ9) 3582-002	EA	1
E-2	20		Screw, Machine, Flat Head, 1/4 - 20 by 3/4-in (01KZ9) 1622-015	EA	2
E-2	21		Dowel Pin, 1/4-in dia by 1-1/4-in Long (01KZ9) 1601-004	EA	1
E-2	22		Pivot, Lever, Steel, 3/8-in (01KZ9) 2644-006	EA	2
E-2	23		Lever, Steel, 1/2-in by 1/2-in (01KZ9) 2652-010	EA	1
E-2	24		Pedal, Foot, Steel, 1/2-in by 1-in (01KZ9) 2582-012	EA	1
E-2	25		Spring Pin, 1/4-in dia by 1-in Long (01KZ9) 1603-016	EA	1
E-2	26		Spacer, 1/4-in od by 0.215/0.210 Long (01KZ9) 2603-034	EA	2
E-2	27		Screw, Hex Head, Slotted, Thread Cutting, 8-32 by 1/2-in (01KZ9) 1629-010	EA	2
E-2	28		Bar Assembly, Pump Release (01KZ9) 3509-003	EA	1
E-2	29		Support Pivot, Left-hand (01KZ9) 2534-005	EA	1
E-2	30		Channel, Lift Arm (01KZ9) 2634-004	EA	2

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEASURE	(5) QTY
FIG NO.	ITEM NO.				
E-2	31		Screw, Flat Head, Phillips, 1/4 - 20 by 1-1/4-in (01KZ9) 1622-004	EA	6
E-2	32		Rod, Lift Arm, Long (01KZ9) 2650-009	EA	3
E-2	33		Spacer, Support (01KZ9) 2603-023	EA	3
E-2	34		Bushing, Flanged, 5/8-in Bore by 9/16-in Long (01KZ9) 1658-009	EA	10
E-2	35		Support, Left-hand (01KZ9) 2534-010	EA	1
E-2	36		Set Screw, Socket Head, 1/4 - 20 by 1/4-in (01KZ9) 1625-002	EA	9
E-2	37		Pivot, Chair (01KZ9) 2644-004	EA	1
E-2	38		Screw, Hex Head Cap, 3/8 - 16 by 3/4-in (01KZ9) 1615-025	EA	4
E-2	39		Screw, Pan Head, Phillips, Thread Cutting, 8-32 by 3/8-in (Type 1) (01KZ9) 1629-004	EA	1
E-2	40		Rod, Seat Adjust, Steel, 3/8-in dia (01KZ9) 2650-010	EA	2

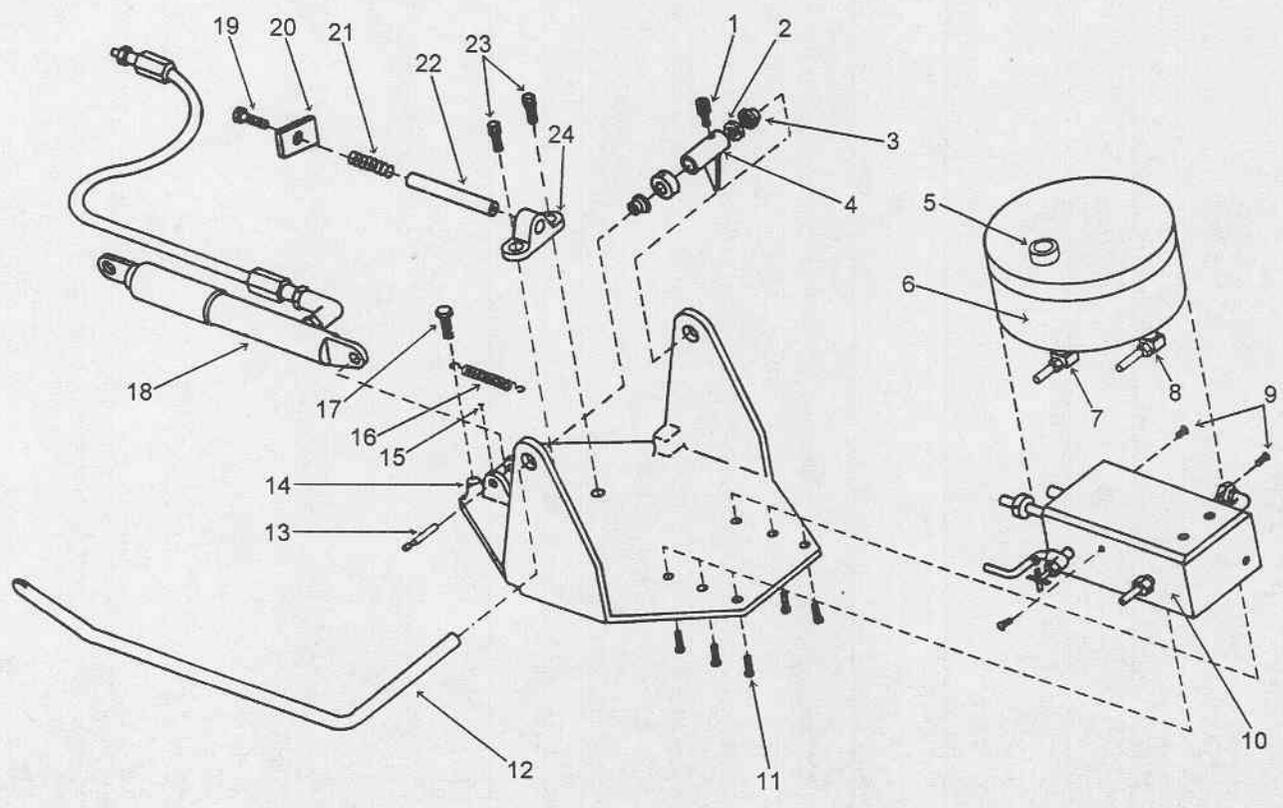


Figure E-3. Support pump assembly.

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-3	1		Screw, Socket Head, 1/4 - 20 by 15/16-in (01KZ9) 1616-070	EA	1
E-3	2		Set Collar and Set Screw (01KZ9) 1630-004	EA	2
E-3	3	3120-01-242-2335	Bushing, Flanged, 5/8-in Bore by 3/8-in Long (01KZ9) 1658-014	EA	2
E-3	4	5340-01-339-8791	Lever, Pump Control (55732) 2652-012	EA	1
E-3	5		Plug, Flush, 1/4 npt (01KZ9) 1637-001	EA	1
E-3	6		Reservoir Weldment (01KZ9) 3673-003	EA	1
E-3	7		Fitting Assembly (01KZ9) 3548-001	EA	1
E-3	8		Elbow, Male, 1/8-in by 90° (01KZ9) 2678-029	EA	1
E-3	9		Screw, Round Head, Slotted 10-32 by 1/4-in (01KZ9) 1620-005	EA	3
E-3	10		Pump Assembly (01KZ9) 3687-001	EA	1
E-3	11		Screw, Flat Head, Slotted 10-32 by 5/8-in Long (01KZ9) 1622-010	EA	6
E-3	12		Arm, Foot Control (01KZ9) 2501-055	EA	1
E-3	13		Rod, Piston Support, Stress Proof, 3/8-in dia (01KZ9) 2650-007	EA	1
E-3	14		Support, Pump, Cast Aluminum (01KZ9) 2534-009	EA	1
E-3	15		Set Screw, 1/4 - 20 by 1/4-in (01KZ9) 1625-002	EA	1

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION	(4) UNIT OF MEASURE	(5) QTY
FIG NO.	ITEM NO.				
E-3	16	3040-01-339-8751	Spring, Piston Pump (01KZ9) 2605-021	EA	1
E-3	17		Screw, Hex Head, 1/4 - 20 by 5/8-in (01KZ9) 1615-024	EA	1
E-3	18		Cylinder and Hose Assembly (01KZ9) 3686-005	EA	1
E-3	19		Screw, Hex Head Cap, 1/4 - 20 by 5/8-in (01KZ9) 1615-024	EA	1
E-3	20		Plate, End, 1/4-in Steel (01KZ9) 2584-086	EA	1
E-3	21		Spring, Lee No. LC072J-4 (01KZ9) 2605-029	EA	1
E-3	22		Rod, Release, 1/2-in dia, Steel (01KZ9) 2650-012	EA	1
E-3	23		Screw, Hex Head Cap, 1/4 - 20 by 5/8-in (01KZ9) 1615-024	EA	2
E-3	24		Support, Rod Casting (01KZ9) 2534-023	EA	1
E-3	*		Support, Pump Assembly, Complete (01KZ9) 3638-042	EA	1
E-3	**		4320-01-339-8745	Oil Reservoir, Final Assembly (01KZ9) 3673-004	EA

* Not illustrated.
** Includes items 6, 7, and 8.

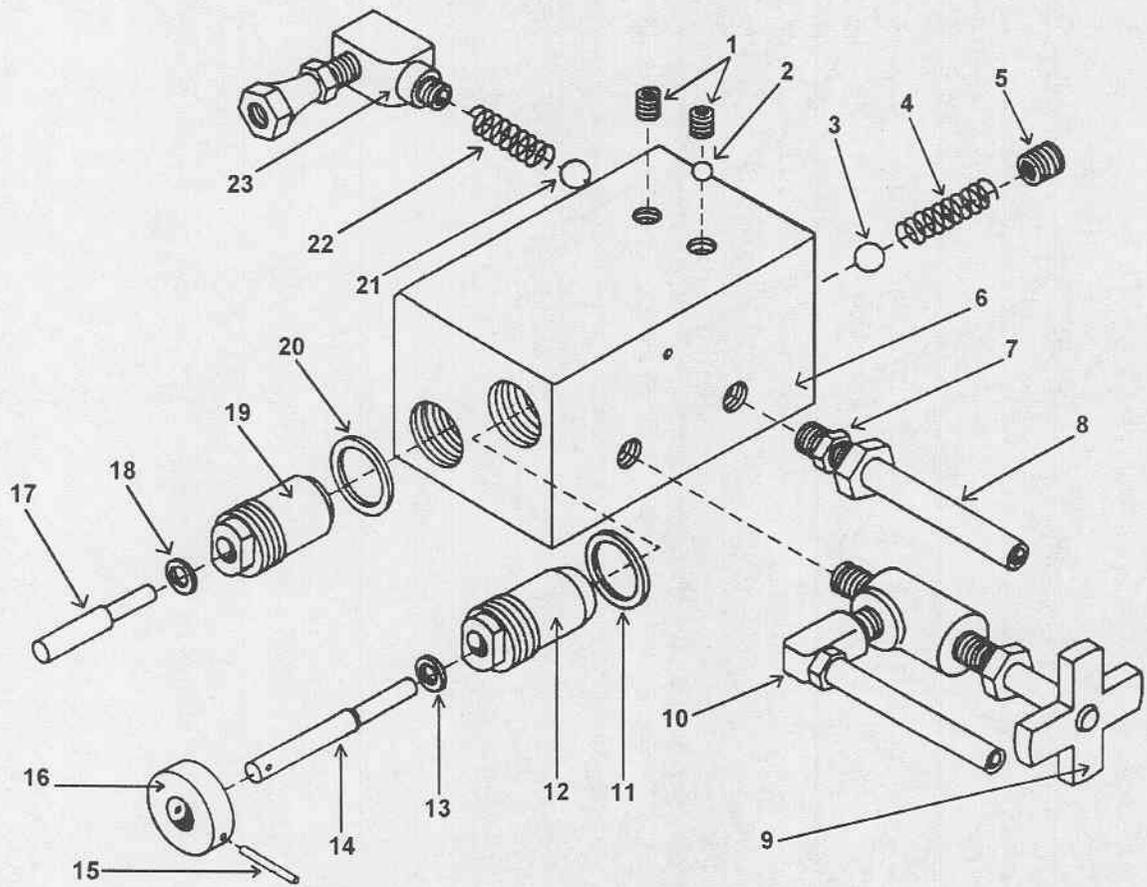


Figure E-4. Pump assembly.

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-4	1		Flush Plug, Socket Head, npt, 1/8 - 27 (01KZ9) 1637-002	EA	2
E-4	2	5365-01-121-4898	Ball, Steel, 3/16-in dia (01KZ9) 1611-003	EA	1
E-4	3	4820-01-339-6381	Ball, Steel, 5/16-in dia (55732) 1611-004	EA	1
E-4	4		Spring, Pump Release (01KZ9) 2605-022	EA	1
E-4	5		Flush Plug, Socket Head, npt, 1/4 - 18 (01KZ9) 1637-001	EA	1
E-4	6		Pump Body (01KZ9) 2515-016	EA	1
E-4	7		Fitting, Straight, Male, npt, 1/8" id (01KZ9) 2540-011	EA	1
E-4	8	4710-01-211-9646	Tube, 1/4-in od by 6-in Long (01KZ9) 1117-051	EA	2
E-4	9	4820-01-341-2709	Metering Valve (Republic 151B-5- 1/8 B) (55732) 2625-002	EA	1
E-4	10		Elbow, 1/8 by 90°, Male (01KZ9) 2678-029	EA	1
E-4	11	5330-01-340-0131	"O" Ring (Parker No. 17 or Equal) (01KZ9) 2591-009	EA	1
E-4	12		Insert, Pump Piston, 7/8-in dia, Steel (01KZ9) 2564-005	EA	1
E-4	13	5330-01-248-3837	"O" Ring (70 Durometer, Parker No. 110 or Equal) (01KZ9) 2591-008	EA	1
E-4	14		Piston Rod (01KZ9) 2650-004	EA	1
E-4	15		Spring Pin, 5/32 by 1-in (01KZ9) 1603-007	EA	1

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-4	16		Stop, Piston Rod, 1-1/8-in dia, Steel (01KZ9) 2673-005	EA	1
E-4	17		Rod, Pump Release (01KZ9) 2650-003	EA	1
E-4	18	5330-01-248-3837	"O" Ring (70 Durometer, Parker 110 or Equal) (01KZ9) 2591-008	EA	1
E-4	19		Insert, Pump Release (01KZ9) 2564-004	EA	1
E-4	20	5330-01-340-0131	"O" Ring (Parker 17 or Equal) (01KZ9) 2591-009	EA	1
E-4	21	4820-01-339-6381	Ball, Steel, 5/16-in dia (55732) 1611-004	EA	1
E-4	22	5360-01-219-2790	Spring, Check Valve (01KZ9) 2605-012	EA	1
E-4	23		Elbow, 90°, 1/4 - 18 npt Male with Female Pipe Swivel (Parker No. 2107-4-4) (01KZ9) 2678-003	EA	1
E-4	*		Piston Assembly (01KZ9) 3669-003	EA	1
			* Includes items 15, 16, and 17.		

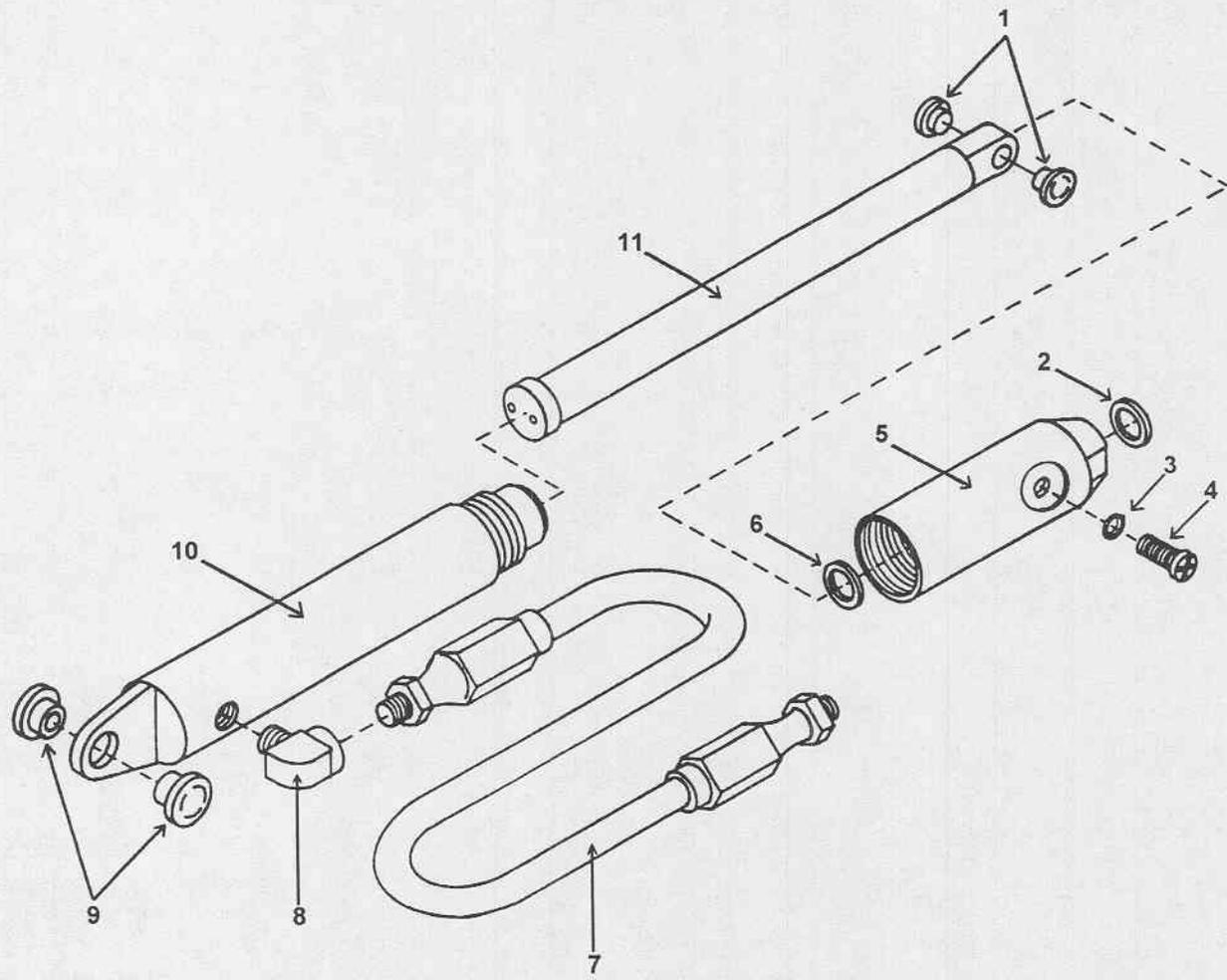


Figure E-5. Piston and hose assembly.

Section II. REPAIR PARTS LIST FOR DENTAL CHAIR AND STOOL UNIT

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-5	1	5365-01-248-1064	Bushing, Flanged, Nylon, 3/8-in Bore by 7/32-in (01KZ9) 1658-030	EA	2
E-5	2	5330-01-240-5747	"O" Ring, Parker 210 or Equal (01KZ9) 2591-005	EA	1
E-5	3	5330-01-240-5748	"O" Ring, Parker 8 or Equal (01KZ9) 2591-004	EA	1
E-5	4		Screw, Truss Head, 10 - 32 by 1/4-in (01KZ9) 1624-004	EA	1
E-5	5		Cap, Cylinder (01KZ9) 2526-015	EA	1
E-5	6	5330-01-013-3724	"O" Ring, Parker 2-022 or Equal (25692) 2591-010	EA	1
E-5	7		Hose Assembly (01KZ9) 3676-001	EA	1
E-5	8		90° Elbow, Fludar No. PF 201-4 (01KZ9) 2678-001	EA	1
E-5	9		Bushing, Flanged, Nylon, 3/8-in Bore by 7/32-in (01KZ9) 1658-030	EA	2
E-5	10		Cylinder, Piston Weldment (01KZ9) 3686-003	EA	1
E-5	11		Cylinder, Rod Assembly (01KZ9) 3686-002	EA	1
E-5	*		Assembly (01KZ9) 3686-004	EA	1

* Includes items 2, 3, 4, 5, 6, 10, and 11.

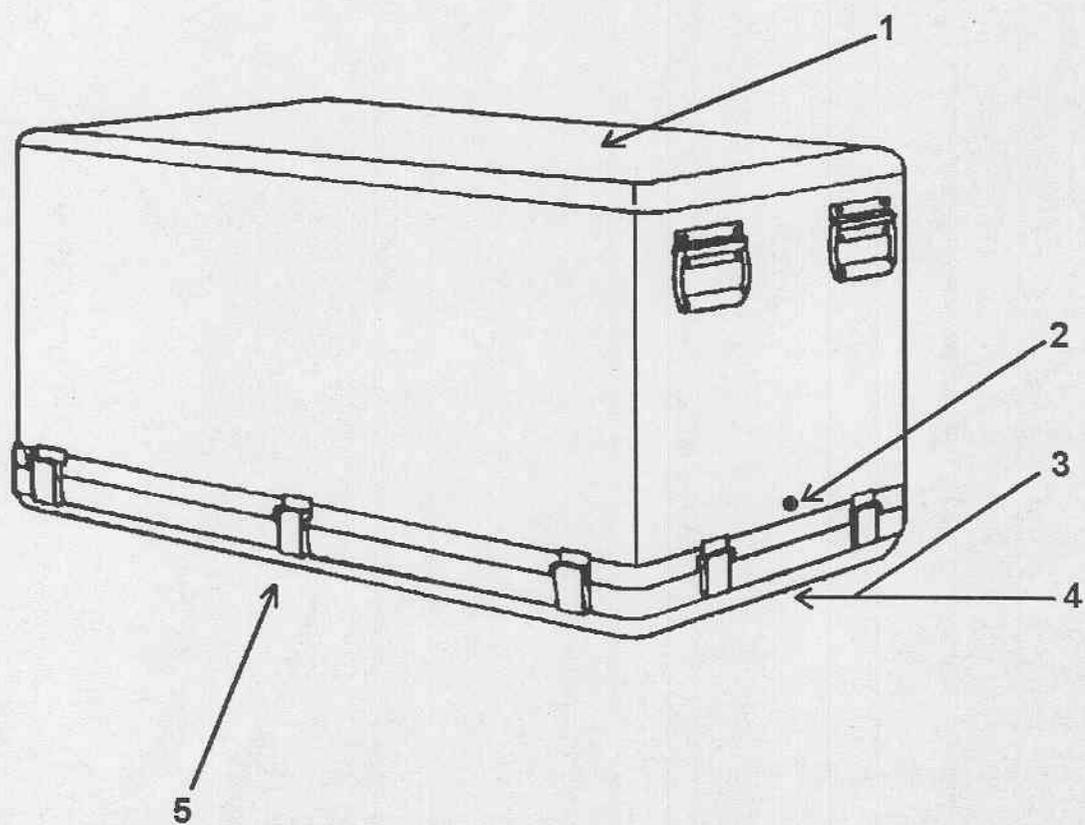


Figure E-6. Carrying case.

**Section II. REPAIR PARTS LIST
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
E-6	1		Case (01KZ9) 2674-001	EA	1
E-6	2		Valve, Air Relief (01KZ9) 2625-003	EA	1
E-6	3		Washer (01KZ9) 2626-009	EA	4
E-6	4		Wing Nuts, 1/2 - 13, NC (01KZ9) 1640-001	EA	4
E-6	5	5340-01-044-6721	Latch, Compression (01KZ9) 3570-001	EA	10

**Section III. SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT
FOR
DENTAL CHAIR AND STOOL UNIT**

(1) ILLUSTRATION		(2)	(3)	(4)	(5)
FIG NO.	ITEM NO.	NATIONAL STOCK NUMBER	DESCRIPTION	UNIT OF MEASURE	QTY
			<p>There are no special tools, test, or support equipment applicable for this end item.</p>		

GLOSSARY

AFR	Air Force regulation
app	Appendix
AR	Army regulation
C	Operator or crew
CAGE	Commercial and government entity
CTA	Common table of allowances
CVC	Calibration/verification/certification
D	Depot level maintenance
DA	Department of the Army
dia	Diameter
DLA	Defense Logistics Agency
DLAM	Defense Logistics Agency manual
DPSC	Defense Personnel Support Center
DS	Direct support
EA	Each
F	Direct support maintenance
Fig	Figure
FM	Field manual
FSC	Federal supply class
FSCM	Federal supply code for manufacturers. This is an obsolete term. Cage (commercial and government entity) is the correct acronym.
ft	Foot (feet)
GS	General support
H	General support maintenance
id	Inner diameter
in	Inch
ISO	International Standards Organization
JTA	Joint table of allowances
KT	Kit
MAC	Maintenance allocation chart
MAN	Manual
MED	Medical
MPL	Mandatory parts list
MTOE	Modified table of organization and equipment
NC	National course
NO (No)	Number

npt	National pipe thread
NSN	National stock number
od	Outer diameter
PMCS	Preventive maintenance checks and services
QC	Quality control
QTY	Quantity
RPL	Repair parts list
SB	Supply bulletin
SER	Serial
TB	Technical bulletin
TDA	Table of distribution and allowances
TM	Technical manual

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Dental Operating Chair and Stool Unit, Model CM-185

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
2-7	2-5		
E-11		E-4	

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Change electrical cable to electrical assembly.

REASON: Corrects nomenclature.

Reverse call-out numbers 4 and 8.

REASON: Correctly identifies part.

CUT ALONG PERFORATED LINE

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A
W
12
1
12

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John Doe

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