DEPARTMENT OF THE ARMY SUPPLY BULLETIN

Army Medical Department Supply Information

Headquarters, Department of the Army, Washington, DC 20310-2300

20 February 2005

Effective until rescinded or superseded

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can improve this publication. If you find any mistakes, or you know a way to improve it, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the U. S. Army Medical Materiel Agency, ATTN: MCMR-MMS-P, Fort Detrick, MD 21702-5001.

	<u>Table of Contents</u>	<u>Page</u>
SECTION 1	- Medical Maintenance General Information	1-1
Literature CD	s Availability:	
APPENDIX A	- Operator & Maintenance, Literature for Medical Equipment, Disc 1	A-1
APPENDIX B	- Operator & Maintenance, Literature for Medical Equipment, Disc 2	B-1
APPENDIX C	- Operator & Maintenance, Literature for Medical Equipment, Disc 3	C-1
APPENDIX D	- Operator & Maintenance, Literature for Medical Equipment, Disc 4	D-1
APPENDIX E	- Operator & Maintenance, Literature for Medical Equipment, Disc 5	E-1
APPENDIX F	- Operator & Maintenance, Literature for Medical Equipment, Disc 6	F-1
APPENDIX G	- Invasive Monitoring Instructions	G-1
APPENDIX H	- Centralized Class VIII Repair Parts Program and Procedures	H-1
	·	
INDEX	-	I-1

NOTICE

This Supply Bulletin is devoted entirely to Medical Maintenance Information

SECTION 1. MEDICAL MAINTENANCE GENERAL INFORMATION

1-1. ABAXIS BLOOD GAS ANALYZER, MODEL PICCOLO

- a. The USAMMC-SWA Medical Maintenance Section recently identified possible problems with the Piccolo. They have recommended that operators increase the regimen of cleaning the printer and results card slot daily and the air filter bi-weekly. It only takes about 5 minutes to do all of it. All you need is some canned air and a Phillips screwdriver. Of course this is no guarantee to alleviate the problems, but it is a mitigating effort worth doing.
- b. Abaxis has a FAQ site that may be useful. Please see website http://www.abaxis.com/_support/piccolo_support/pic_faq.html.

1-2. ALARIS INFUSION PUMPS, MODEL 2863B

- a. Several infusion pump problems have been identified by field technicians. The following are identified problems and the recommended fixes.
- b. Both unit batteries are failing because of long-term storage. When internal memory battery fails the calibration, memory is lost, rendering the unit inoperative. Failure of the main unit battery results in reduced operational time.

Recommendation: Unit needs to be charged every 6 months and the internal battery needs to be replaced every two (2) years. Replacement cost of memory battery is \$29.73 (part #2860711) and cost of the main battery is \$78.75 (part #2860703).

c. Drive motors are subject to premature wear causing unit to fail calibration or to alarm and give operational errors frequently.

Recommendation: Replace defective drive motor assemblies. Cost of replacement is \$525.00 per channel (part #2860745). Unit has three channels.

d. Research on defective pump assemblies revealed in the FDA Alert dated September 12, 2001, that the manufacturer (Cardinal Health formerly IVAC/Alaris) acknowledged the defective pumps. The manufacturer has stated that if the pumps have never been in for replacement they will honor the recall. Please call 800-854-7128 ext 7643. Pressure transducer membranes fail over time resulting in inaccurate calibration which results in pressure errors.

Recommendation: Replace transducer membranes. Cost of replacement is \$0.78 per channel (part #138356). Unit has three channels.

e. There are several units with internal water damage destroying the main processor and printed circuit board assembly as a result of defective unit seals.

Recommendation: Check case seals and/or replace the case gasket seal. Cost of replacement is \$17.26 for top seal (part #2860513). Cost of \$18.51 for bottom seal (part #2860547).

1-3. AVAILABLE OPERATOR AND MAINTENANCE LITERATURE

Operator and maintenance literature for medical equipment is available on CDs. Located at appendices A, B, C, D, E, and F are the table of contents for six CDs that are now available from the USAMMA National Maintenance Point. To obtain a copy of this literature, call DSN 343-4379 or commercial 301-619-4379.

1-4. INVASIVE MONITORING OF mA FOR THE PHILIPS BV 300 C-ARM

- a. There is an internal closed-loop monitoring circuit for mA that compares the actual mA with the set mA. If there is a difference, the system adjusts itself. However the capability exists to read mA invasively.
 - b. Refer to appendix G for steps and graphic illustrations of this procedure.

1-5. LIFEPAK 10 DEFIBRILLATOR/MONITOR, NSN 6515-01-453-4003

- a. Tolerances differ on different defibrillator brands. For the Physio Control Lifepak 10, the acceptable tolerance for the energy delivered is plus or minus 7%. This value is mentioned in the Service Manual pages 3-9 to 3-10 in the Testing and Troubleshooting section of the book.
- b. Currently, the military uses the Impulse 4000 Defibrillator and Transcutaneous Pacer Analyzer as one of the testing medical devices to check for the defibrillator's accuracy output. The Impulse 4000 testing equipment uses an automated testing function that is loaded by the manufacturer to test the Lifepak 10. Although the testing tolerance limits are set at a default of 15%, which is not the same value as the Physio Control's tolerance. The tester is still adjustable to allow for the manufacturer's different tolerances when the operator chooses to reconfigure the testing device. Ensure that if the Impulse 4000 is set to the 7% tolerance. Please note that while the new tolerance may be set at 7%, the testing equipment will default to 15% on the lower 5 joules setting.
- c. Be advised that during testing of the Lifepak 10 the amount of watts delivered should be the same as listed in the service manual.

1-6. MAINTENANCE DIRECTORATE PERSONNEL

- a. The Maintenance Engineering and Operations Directorate (MEOD) serves as an Army Medical Department (AMEDD) focal point for multiple aspects of medical materiel maintenance. The MEOD is made up of the AMEDD National Maintenance Point (NMP), Maintenance Publications, and Medical Maintenance Operations Divisions (MMOD) to include depot-level operations at Tobyhanna, PA, Hill AFB, UT, and Tracy, CA.
 - b. The DSN prefix is 343 and commercial phone numbers are 301-619-XXXX.

Director, Maintenance Engineering and Operations Directorate (4407) Administrative Assistant (4406) Directorate Sergeant Major (4464) Chief, AMEDD National Maintenance Point (4382) Chief, Maintenance Publications (4366) Chief, Maintenance Operations (4365)

c. Operations Divisions information.

Chief, MMOD, Hill AFB, UT (DSN 586-4947, commercial 801-586-4947) Chief, MMOD, Tobyhanna, PA (DSN 795-7744, commercial 570-895-7744) Chief, MMOD, Tracy, CA (DSN 462-4556, commercial 209-839-4556)

1-7. MAINTENANCE DIVISIONS' ADDRESSES

- a. MMOD UT
 - (1) Mail address

U.S. Army Medical Materiel Agency Medical Maintenance Operations Division ATTN: MCMR-MMM-DU 6149 Wardleigh Road Building 1160 Hill Air Force Base, UT 84056-5848

(2) Freight address

U.S. Army Medical Materiel Agency 6149 Wardleigh Road Building 1160, Bay 1 Hill Air Force Base, UT 84056-5848

- b. MMOD PA
 - (1) Mail address

USAMMA/MCMR-MMM-DU ATTN: MCMR-MMM-DP Tobyhanna Army Depot 11 Hap Arnold Boulevard Tobyhanna, PA 18466-5063

(2) Freight address

U.S. Army Medical Materiel Agency Medical Maintenance Operations Division Warehouse 4, Bay 1 Tobyhanna Army Depot Tobyhanna, PA 18466-5063

c. MMOD - CA

(1) Mail address

U.S. Army Medical Materiel Agency Medical Maintenance Operations Division ATTN: MCMR-MMM-DC Building T-255, Tracy Site Defense Distribution Center P.O. Box 960001 Stockton, CA 95296-0970

(2) Freight address

U.S. Army Medical Materiel Agency Medical Maintenance Operations Division Building T-255, Tracy Site 25600 Chrisman Road Defense Distribution Center Tracy, CA 95304-9150

1-8. SURGICAL UNIT, ARTHROSCOPIC, NSN 6515-01-495-1668

The following additional information from the manufacturer is for those technicians who may have been unclear on the electrical leakage testing for the FMS 2000:

The Section V. Maintenance and Calibration Setup of the service manual addresses the use of a 12- to 16-gauge cannula to interface with the administration set during electrical safety testing. The purpose of the cannula in this test provides an electrical connection to the fluid for verification that the path is electrically safe. A larger or smaller cannula can be used for the electrical pathway. In the event that only a smaller 18-gauge cannula is available it can be used to test the leakage current; however, flow-rate testing, if performed, will be reduced as the unit will only allow 300 mmHg of back pressure. It is advisable to obtain a larger-bore cannula for verification and performance testing the flow rate.

1-9. THE U.S. ARMY MEDICAL MATERIEL AGENCY CENTRALIZED CLASS VIII REPAIR PARTS PROGRAM

- a. The program provides a Class VIII repair parts support contingency to ensure deployable organizations with medical equipment are capable of deploying with fully mission capable (FMC) medical equipment. The program's objective is to make available to organizations with a field or sustainment maintenance capacity, the repair parts necessary to sustain deployable medical equipment. This document is located at appendix H.
- b. The point of contact for additional information concerning the program is USAMMA's Medical Maintenance Operations Division Chief at DSN 343-4365, or commercial 301-619-4365.

1-10. TMDE PROGRAM MANAGER ADDRESS CHANGE

The office that approves TMDE requests has changed. Block 1A of DA Form 4062 (TMDE Acquisition Approval Analysis Data) and the "FOR" line on the Acquisition Memorandum's formerly used U.S. Army Aviation and Missile Command, AMSAM-TMD-LI, Redstone Arsenal. The address should now read,

TMDE Program Manager SFAE-CSS-CS-T Redstone Arsenal AL 35898-5000

Please make sure these changes are indicated on your submitted memo and DA Form 4062.

1-11. TOOL KIT, MEDICAL EQUIPMENT MAINTENANCE AND REPAIR: REPAIRMAN'S, NSN 5180-00-611-7923, LIN W45334

- a. General Services Administration (GSA) is the integrated material manager for this tool kit. If your organization requires the tool kit and wishes to order one, please submit a DA Form 1348, Requisition Request Form, or GSA SF Form 344, Multiuse Standard Requisitioning/Issue System Document. The request can be submitted through your standard supply requisition system or faxed to GSA at 816-926-7971.
- b. Refer to SC 5180-8-A14, Tool Kit Medical Equipment Maintenance and Repair: Repairman's. This SC can be found on the MEOD website at http://www.usamma.army.mil/maintenance.
 - c. If you need additional information please contact GSA at 816-926-6998.
- d. If you have any questions or comments please call the USAMMA MEOD at DSN 343-4382 or commercial 301-619-4382.

1-12. USAMMA'S MEOD ON-LINE

- a. The USAMMA's MEOD has a website to make finding that critical piece of maintenance information a little easier. We provide detailed information about our Medical Maintenance Divisions and have a customer comment card; test, measurement, and diagnostic equipment (TMDE); equipment support; imaging equipment; maintenance publications (to include on-line access to the maintenance supply bulletins and supply catalogs); and training opportunities. We've also provided government and manufacturer links that we've found to be helpful. Included in our site is a search capability that allows you to quickly locate information on a specific subject.
- b. Our website is located at http://www.usamma.army.mil/maintenance. If you have questions about the information we've provided or recommendations for enhancements to our site, send an e-mail message using the link on our home page.

1-13. USAMMA TMDE CALIBRATION SUPPORT

- a. For Table of Organization & Equipment (TO&E) organizations, TMDE support coordinators will coordinate with the Medical Maintenance Operations Division, Tracy, CA, (MMOD-CA) for maintenance and calibration services of TMDE-Special Purpose (SP) equipment. For TMDE-General Purpose (GP), coordination should be made through the local Area TMDE Support Team (ATST) or Area Calibration Laboratory (ACL) to provide maintenance and services.
- b. For Table of Distribution & Allowances (TDA) organizations, the TMDE calibration support will be coordinated by the unit TMDE Coordinator through the local ATST or ACL to provide maintenance and services of TMDE-GP and TMDE-SP equipment. In the event there is not an ATST or ACL available within the geographical location, the TDA activity will be responsible for the required calibration and repair support of their equipment.
- c. For changes concerning TMDE support please click the TMDE link on the MEOD website. The address of the website is www.usamma.army.mil/maintenance.

APPENDIX A: CD 1 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 1

10/20 Standards, Maintenance Allocation Chart, and Equipment List for Reportable Medical Equipment

6230-01-481-2214 Floodlight Emergency, Med-Tent-LT

Operator Guide and Parts List

*6515-00-137-6511 Electrosurgical Apparatus Portable, LM-90

Service Manual User Manual

6515-01-279-6450 Monitor Oxygen Battery Power, 5120

Operation and Maintenance Manual

Service Manual

6515-01-309-6647 Electrosurgical Apparatus Portable, Force 2

<u>Service Manual</u> <u>TM 8-6515-003-24&P</u>

6515-01-327-6798 Concentrator Oxygen, AS 005-1

Patient Manual

6515-01-429-1381 Defibrillator/Monitor-Recorder, Lifepak 10

6515-01-453-4003

Operating Instructions Service Manual

6515-01-434-4629 Concentrator Oxygen, AS 005-4

Service Manual

6530-01-321-5592 Table Operating Field (FST)

Assembly and Packing Instructions

6530-01-325-9299 Ventilator Volume Portable, Bear 33

<u>Maintenance Manual</u> <u>Clinical Instruction Manual</u>

6630-01-411-2568 Analyzer, Clinical Chemistry, I-Stat 111000

System Manual

6630-01-415-1593 Analyzer Blood, Piccolo

Operator's Manual

(continued) APPENDIX A: CD 1 TABLE OF CONTENTS

*6640-01-257-1944 Centrifuge Laboratory, Microhematocrit, Compur 1100 6640-01-068-9612

Operating Manual and Servicing Instructions

6640-01-326-1590 Rotator Laboratory, 14-251-200

<u>Instructions</u>

6640-01-431-5696 Rotator Laboratory, 1314

Operation Manual

 $^{^{\}star}$ For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

APPENDIX B: CD 2 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 2

4110-01-451-2356 Refrigerator Solid State Biological, M-30TR

Maintenance Manual

6515-00-137-6511 Electrosurgical Apparatus, Portable, SSE2L

Service Manual

6515-01-355-6479 Vaporizer Anesthesia Drawover, 1101-9001-000

Operation and Maintenance Manual

6515-01-378-4176 Craniotome Power System, MD030

Operator's Manual Service Manual

6515-01-414-3607 Cryosurgical System, CE-2000

Service Manual

Operation and Maintenance Manual

6515-01-423-5796 Monitor Patient Vital Signs, 106EL w/spo2 6515-01-423-5872 Monitor Patient Vital Signs, 106EL

User's Guide

<u>Calibration/Maintenance Manual</u> <u>Schematics and Drawings Set</u>

6515-01-432-2707 Monitor Patient Vital Signs, 206EL w/spo2

6515-01-432-2711 Monitor Patient Vital Signs, 206EL w/spo2 and capnography

Directions for Use Reference Guide

Update

6515-01-434-1999 Blood/Fluid Warmer & Infusion, System 1000 (Sims Level 1)

Owners Manual

6515-01-435-5350 Suction Apparatus Oropharyngeal, 325M

Instruction Manual, Operation and Service

6515-01-464-0267 Ventilator Volume Portable, 754M Eagle

Operation and Service Manual

6520-00-181-7349 Dental Chair and Stool Unit, CM-185

Installation and Repair Manual TM 8-6520-004-14&P

(continued) APPENDIX B: CD 2 TABLE OF CONTENTS

6520-01-456-7170 Dental Unit, Self-Contained, ADU-10CF

Operation and Maintenance Manual Service Manual and Parts List

Portable Air Compressor, AA-75CF

Operation and Maintenance Manual Service Manual and Parts List

6525-01-325-3740 X-ray Apparatus, Portable, 1200

6525-01-457-1536

Operation and Maintenance Manual

6525-01-345-6089 Processing Machine Radiographic, Curix 60

Operator's Installation and Instruction Manual

*6530-01-429-6715 Sink Unit Surgical Scrub, RPC 1000

Operator's, Organizational, Maintenance Manual

6540-00-181-8037 Lens Measuring Instrument Opthalmic, 4001

Instruction Handbook

6540-01-032-4518 Light Slit Ophthalmic, Marco V

Instruction Manual

*6540-01-145-8775 Chair Optometry, Portable

Technical Manual

6540-01-241-6965 Slit Lamp, SL-6E

Service Parts List TM 8-6540-002-14&P

6545-01-302-0228 Sink Unit, Surgical Scrub, Field

TM 8-6545-001-24&P

6640-01-258-0006 Shaking Machine Laboratory, Vortex Genie 2

Operating and Installation Guides

6640-01-316-5084 Centrifuge, 708T

Operation and Service Manual

6650-01-293-7240 Microscope Optical, Labophot 6650-01-325-3747 Microscope Optical, Labophot2

Operation and Preventive Maintenance

6650-01-406-1828 Microscope Optical, BX40F3

<u>Instructions</u>

^{*} For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

APPENDIX C: CD 3 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 3

4110-01-117-3902 Refrigerator, Mechanical, Blood Bank, BBR37SS-1B-03

TM 8-4110-001-24&P

Commercial Operating Instruction Manual

4110-01-249-4476 Refrigerator, Mechanical, Blood Bank, CT1-1B-06

Commercial Operating Instruction Manual Commercial Maintenance Manual

4110-01-287-7111 Solid State Refrigerator, DLA-50T

TM 8-4110-002-14&P Operational Manual Maintenance Manual

*4110-01-287-7111 Thermostabilizer for Blood, RCB42 P

Service Manual

6515-01-174-1477 Suction and Pressure Apparatus, 317M

Instruction Manual, Operation and Service

6515-01-185-8446 Anesthesia Apparatus, 885A

Instruction and Service Manual with Illustrated Parts List

TM 8-6515-001-24&P

6515-01-242-9123 Suction Apparatus, 308M

6515-01-304-6497

TM 8-6515-004-24&P

Instruction Manual, Operation and Service

6515-01-267-2726 Suction Apparatus, 306

6515-01-267-2727

TM 8-6515-013-14&P, 306M

Instruction Manual, Operation & Service, 306 Series

*6515-01-291-1198 <u>Defibrillator/Monitor-Recorder, 43110MC, Operating Guide</u>

Defibrillator Module, 43130M, Service Manual

*6515-01-291-1199 Monitor-Recorder Module, 43200M/MC/MD, Service Manual

6515-01-313-6242 Digital Thermometer, 600

<u>Directions for Use Manual</u> <u>Technical Manual</u> <u>TM 8-6515-012-14&P</u> (continued) APPENDIX C: CD 3 TABLE OF CONTENTS

6515-01-383-0922 Anesthesia Ventilator, 7000

Service Manual

Operation and Maintenance Manual

6515-01-452-0625 Infusion Pump, MedSystem III

Service Bulletins

MedSystem III Directions for Use

Technical Service Manual MedSystem III Infusion System

6520-00-000-0158 Dental Light Set, LF II

TM 8-6520-001-24&P

Installation Instructions, Operating Instructions, Use and Care Manual

Service Manual, Repair Manual, and Parts List Manual

6520-00-139-1246 Dental Compressor-Dehydrator, M5B

TM 8-6520-003-24&P Technical Manual

<u>6520-00-139-1246</u> <u>Dental Compressor-Dehydrator, PAC 6.7</u>

6520-01-398-4613

Technical Manual, Defiance Electronics

Owners Manual/Parts List, HP Series, Piston Air Products

HP Series, 1 & 1-1/2 Horsepower, Pneumotive Service Procedures

6520-00-140-7663 Dental Operating Unit, Porta-Cart 3406

6520-01-272-4531

Operation and Maintenance Instructions

TM 8-6520-002-24&P

6520-00-966-3729 Electric Laboratory Dental Furnace

Instructions for the Operation and Maintenance

6520-01-333-5961 Dental System, FUS336

Operation and Maintenance Instructions

6520-01-343-8126 Portable Field Dental Unit, 2100M

Operation and Maintenance Manual

6520-01-446-3783 Portable Dental Chair, ADC-01CS

Operation and Maintenance Manual

6525-01-303-6235 X-ray Processor, AFP 14X-3

6525-01-370-7552 Portable Dental X-ray System, ALPHA MPDX

Operation Manual Maintenance Manual

(continued) APPENDIX C: CD 3 TABLE OF CONTENTS

6525-01-422-6122 Processing Machine, Radiographic Film with Daylight Loader

Installation, Operation, Service, and Parts Manual

*6530-00-926-2151 Portable Sterilizer System, M-138

Instructions

TM 8-6530-004-24&P

<u>6530-01-244-0708</u> <u>Field Hospital Surgical Light, 2420</u>

Service Manual

6530-01-246-1906 Portable Intermittent Traction Machine, Tru-Trac TT-92B Series

Operating Instructions Service Manual

6530-01-306-1771 Validator, 8" and 10"

Operator's Manual Service Manual Parts List, 8"

6530-01-308-7740 Sink Unit, 950S936

Hamilton Installation Operation and Maintenance Manual

6530-01-327-0686 Portable Ventilator, 750 and 750M

TM 8-6530-009-24&P

Instruction Manual, Operation & Service

6530-01-374-8903 Portable Ventilator, Bird Avian

Operator/Service Manual

6530-01-442-8720 <u>Steam Sterilizer, MC 8 and MC 10</u>

Service Manual GLS-8 and GLS-10

<u>6630-01-284-6546</u> <u>Analog pH Meter, Orion Model 301</u>

Commercial Maintenance and Operation Manual

<u>6630-01-300-8711</u> <u>Analyzer, Sodium Potassium, 614</u>

Instruction Manual Service Manual

6630-01-316-5085 Centrifugal Analyzer, QBC II

Maintenance Manual for the QBC II Reader, Model 4477

Operator's Manual For The QBC II Plus Centrifugal Hematology System and

Maintenance Manual For The QBC Centrifuge, Model 4207

6630-01-364-8555 Portable Blood Gas Analyzer, GEM-STAT

Comprehensive Service Manual

Operator's Manual

(continued) APPENDIX C: CD 3 TABLE OF CONTENTS

6640-01-034-0479 <u>Colony Counter</u>, 3325, 3326, 3327, 3328

Instruction Manual

6640-01-143-2055 SERO-FUGE and SERO-FUGE II Laboratory Centrifuge, 0521, 0522, 0541

TM 8-6640-001-24&P Operator's Manual

6640-01-283-9308 <u>Viewer Agglutination</u>

6640-01-302-1025 Oven, STG80 Operation/Instruction/Maintenance Manual

6640-01-315-5382 Laboratory Centrifuge, Z 320

Instruction Manual Service Manual

6650-00-973-6945 <u>StereoZoom Series Microscope</u>

Instruction Manual

6650-01-259-3008 Field Microscope, FM 600

Maintenance Manual Instruction Manual

^{*} For parts support call Medical Maintenance Support Division, Utah (commercial 801-586-4949/4950 or DSN 586-4949/4950, fax X5058).

APPENDIX D: CD 4 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 4

4110-01-291-7046 Mechanical Field Ward Refrigerator

Operation and Maintenance Manual

4110-01-320-1699 Redundant Refrigeration System, MBF-500

Service Data Manual

4110-01-358-3836 Refrigerator-Mechanical, Biological, ERB-5-0378

Operation and Maintenance Manual

4110-01-450-0060 Blood Plasma Freezer, CTF1-1B-06

Service Manual

Electronic Temperature Recorder Manual

Monitor DTPM Series Installation and Operating Instructions

Transformer & Recording Thermometer Installation, Operation and Service Manual

6515-01-150-7840 Blood/Fluid Warmer, FLOTEM IIe

Operation Instruction Manual Technical Maintenance Manual

6515-01-241-7531 Suction Apparatus (Uni-Suction Pump)

Description and Function

Service Manual

6515-01-261-0484 Aspirator, RS-4, RS-6 & RS-5X

Operators Manual

6515-01-293-5578 Doppler Ultrasound Instrument, D8

Operator, Instruction and Service Manual

6515-01-318-1558 Arthroscopic Surgical Unit, MIL-D-42048

Maintenance Instructions

6515-01-376-6564 Upper GI Fiberscopes, FG-24X, FG-27X, FG-32X, FG-34X

Owner's Manual

6515-01-379-7852 Cutter-Vacuum, Orthopedic Cast, 940

Maintenance/Operator's Manual

6515-01-386-4354 Transcutaneous Electrical Nerve Stimulator, Maxima II

Operation Manual

(continued) APPENDIX D: CD 4 TABLE OF CONTENTS

6525-01-312-6411 Continental X-ray, CS-8952

Operator's Manual 9023-401

Volume II

Shipping Retrofit Instructions, Manual 9023-407

<u>6525-01-369-7178</u> <u>Portable Darkroom X-ray, PDR-1</u>

Technical Manual

Operating Instructions and Service Manual

6525-01-384-9296 X-ray Apparatus, Clinix VP4

System Operator's Guide

System Installation Manual, Table/SynerGen

Service Manual, X-ray Generator Installation Manual, Collimator

Installation Manual, Table Parts List for Clinix VP4

Schematics 1 for Clinix VP4

Schematics 2 for Clinis VP4

6525-01-425-5216 Dental X-ray Apparatus, HDX

Installation, Operation & Maintenance Manual

6525-01-468-1672 Portable Dental X-ray Unit, MinXray P200D Mark III

Installation and Operating Instructions

6525-01-480-2199 Medical Filmless Imaging System, (8 models)

6530-01-127-2215 Whirlpool Bath, 290

6530-01-206-6016

Maintenance Manual and Operating Instruction Manual

6530-01-128-2442 Whirlpool Bath

Mobile Hydrotherapy Unit -- Operation, Service and Repair Parts Manual Electric Turbine Ejector – Operation, Service and Repair Parts Manual

Electrical Converter – Operation and Maintenance Manual

6530-01-244-1976 Solution Warming Cabinet – Two Compartment, 7924-SSDP

6530-01-207-0827

Operator's Manual Maintenance Manual

<u>6530-01-244-8101</u> <u>Medi-Therm Hyper/Hypothermia, MTA-4700/MTA-4701/MTA-4702</u>

Service Manual

Operating Instruction Manual

<u>Mobile Ultrasonic Cleaner, MSC-900T-11/21</u>

Operating Instruction Manual Maintenance Manual

(continued) APPENDIX D: CD 4 TABLE OF CONTENTS

6530-01-306-9510 Sterilizer, Surgical Instrument and Dressing Operator's Organizational Maintenance Manual

6530-01-353-9883 <u>Surgical Tables</u>

Maintenance Manual, 2080M and 2080M I.A.

Equipment Manual, 2080IA

Water Distribution and Waste Water Management System (WDWWMS)

Operator's and Organizational Maintenance Manual
6545-01-435-6914 Water Distribution Set, Hospital, DEPMEDS
6545-01-434-9624 Wastewater Management Set, Hospital, DEPMEDS
6545-01-435-6013 Waste-Water Augmentation Set, Hospital, DEPMEDS
6545-01-480-6913 WDWWMS Maintenance Set, Hospital, DEPMEDS
6545-01-491-4732 Water Distribution Set, Hospital, MRI 84 Bed
6545-01-491-4728 Wastewater Management Set, Hospital, MRI 84 Bed

6545-01-491-4698 WDWWMS Maintenance Set, MRI 84 Bed

6630-01-344-9996 Plasma Coagulation Timing Instrument, Electra 750

Service Manual

6630-01-376-9823 Chemical Clinical Analyzer

Service Publication for the DT60 Analyzer and DTE Module

Service Publication for the DTSC Module

6640-00-765-0621 Water Bath, Imperial III

Instruction Manual

6640-01-249-1212 Pipette Shaker, 0621010

Technical Manual

6640-01-291-8390 Hot Plate/Stirrer, 502 Series

Operating and Maintenance Manual

6640-01-308-7749 Refrigerated Centrifuge, 3497

Instruction Manual

APPENDIX E: CD 5 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 5

3540-00-457-2699 Hematron Dielectric Sealer, 4R4330/4R4340

Operator's Manual Service Manual

4110-00-837-6441 Ice-O-Matic, C Series Cuber

Service & Parts Manual

4110-01-422-6809 Blood Bank Refrigerator, Harris

Operators Manual Service Manual

Repair Parts and Support Kits

Instruction Insert

4110-01-504-1157 Commercial Refrigerator, Refrigerator/Freezer & Freezer

Owner's Instructions

6515-01-153-9649 Fiber Optic Light Source, 52-1201

6515-01-283-6221

Owner's Manual TM 8-6515-006-24&P

6515-01-246-1938 Suction Apparatus, 6003

Maintenance and Service Manual

TM 8-6515-008-24&P

6515-01-259-4307 Suction Apparatus, GOMCO 6053

Operation, Maintenance, and Service Manual

TM 8-6515-009-24&P

6515-01-269-6056 Electrosurgery Unit, 774

Operating & Service Manual

6515-01-285-4617 Fiberoptic Bronchoscope, F3 and F3G

TM 8-6515-005-24&P

6515-01-293-5577 Pulse Oximeter, 3040G

Operator's Manual Service Manual

6515-01-318-1558 Arthroscopic Surgical Unit

TM 8-6515-010-14&P

(continued) APPENDIX E: CD 5 TABLE OF CONTENTS

6515-01-327-4155 Endoscopic Instrument Light, DLMP-300

Operation & Maintenance Manual

TM 8-6515-007-24&P

6515-01-358-9480 Thermal Drainage Unit, 2590-120G

<u>Instructions for Operation and Maintenance</u>

6515-01-397-5212 MiniStim Peripheral Nerve Stimulator, MS-II

Instruction Manual

6515-01-432-2707 Monitor Patient Vital Signs, 206EL w/spo2

6515-01-432-2711 Monitor Patient Vital Signs, 206EL w/spo2 and capnography

Update and Service Manual

Directions for Use Reference Guide

<u>Update</u>

6515-01-446-6766 Oximeter, BCI 3303

Clinician's Operation Manual

Service Manual

6515-01-457-1840 Anesthesia System, Narkomed M

Technical Service Manual

6515-01-466-0971 Finger Pulse Oximeter

Instruction and Service Manual

6520-01-345-6089 <u>Table Top Processor, Curix 60</u>

Operator's Installation and Instruction Manual

Technical Documentation

6525-01-496-4229 Ultrasound System PLUS, Sonosite

Service Manual

6525-01-504-5002 Scanner, PcCR1417 (Automatic Cassette Loading Version)

Interface Guide, Version 2.5.1.09

ACL4 System Installation Manual

ACL4 System User Manual

ACL4 System Service Manual

6530-00-709-8175 Field Operating Table

TM 8-6530-011-14&P

(continued) APPENDIX E: CD 5 TABLE OF CONTENTS

6530-01-254-4135 Mobile Ultrasonic Cleaner

TM 8-6530-005-24&P

6530-01-269-1802 Warming Cabinets, 5540, 5545, 5550

Service Manual Operator Manual Installation Instructions Parts Catalog

Service Manual, Revision C, 5520, 5525, 5530

TM 8-6530-007-24&P, Model 5520 TM 8-6530-008-24&P, Model 5550

6530-01-321-5592 Field Operating Table with ARC

Field Operating Table Assembly and Packing Instructions

ARC Instruction Manual

6530-01-343-2033 Surgical Field Light, 2410MB

Operator Manual TM 8-6530-010-24&P

<u>6630-01-247-1331</u> <u>Digiclot II Coagulation Timer, 820</u>

Operator's Manual Operator Instructions Service Manual Parts Lists Schematics

820 Procedure Summary

6630-01-300-8711 Analyzer, ISE Na⁺/K⁺, 614

Operator's Guide Instruction Manual Service Manual

6640-01-416-7345 Centrifuge, SERO-FUGE 2000 Series

Operator's Manual

Multiple NSNs Water Distribution and Waste Water Management System

Operator's and Organization Maintenance Manual

N/A Maintenance Expenditure Limits for Medical Materiel

<u>TB MED 7</u>

N/A Operating Guide for Medical Equipment Maintenance

TB MED 750-1

N/A SB 8-75-11

AR 40-61 (Medical Logistics Policies and Procedures) Augmentation

(continued) APPENDIX E: CD 5 TABLE OF CONTENTS

N/A Dexis Digital X-ray System

User's Manual System Requirements Installing

DICOM Conformance Statement

N/A Portable Oxygen Generation System, POGS 33

Maintenance Manual
Operations Manual

APPENDIX F: CD 6 TABLE OF CONTENTS

Operator & Maintenance Literature for Medical Equipment Disc 6

6515-01-104-0396 Light Source, MILS-1

Operation and Maintenance Manual

6515-01-287-0607 Tourniquet System, A.T.S. 1500

Operator & Service Manual

6515-01-290-8949 Ancillary Coaxial System

Instruction Manual

<u>6515-01-335-9383</u> <u>Surgical Microscope, Wild M650/M690</u>

Training Manual Service Manual Spare Parts Manual Instructions for Use

6515-01-342-9195 Vital Signs Measurement System (Thermometer), 2080

Service Manual

6515-01-378-4529 Ultrasound Stimulator, Intelect Model 700-C

Operator's and Service Manual

6515-01-397-5257 Surgical Operating Microscope, Wild M690

Spare Parts Catalog

6515-01-435-0050 Surgical Suction Apparatus, Gastrointestinal Abdominal Drainage, 326M

Operation & Service

6515-01-457-1840 Narkomed M Anesthesia System, Part No. 4114179

Operator's Instruction and Setup Manual

Drager-Vapor 2000 Anaesthetic Vaporizer Instructions for Use

Technical Service Manual

6515-01-503-3369 Pulse Oximeter, PalmSAT 2500

Operator's Manual

6520-01-045-6407 Ultrasonic Dental Unit with Automatic Fine Tuning, 2001

Installation and Service Manual

6525-01-099-2320 Portaray Heliodent 70 with Dentotime, D3152

Maintenance Instructions

(continued) APPENDIX F: CD 6 TABLE OF CONTENTS

6525-01-268-5152 CURIX ID Camera, 8400/300/340/350

Technical Documentation

6525-01-503-7170 Ultrasound System, C1.99 PLUS and ELITE

Service Manual User Guide

6530-00-709-8175 Field Operating Table

Service Data Service Manual TM 8-6530-011-14&P

6530-01-292-7700 Ultraviolet Hand Lamp, Spectroline EN 140L - BV

Operator's Manual

6530-01-330-7455 Water Recovery System (Use with Sterilizer NSN 6530-00-926-2151)

Draft Technical Manual - Operator's Manul

6530-01-459-4569 COLPAC Master Chilling Units, C-2, C-5, C-6

Instructions for Use and Operation

<u>6540-01-340-0844</u> <u>Eye Magnet, Series 10K</u>

Operation Instruction Manual Maintenance Instruction Manual

6545-01-284-3035 Cystoscopic Kit, MILGUDI-1

Operation and Maintenance Manual

6640-01-246-1989 Serological Water Bath, 148007

Instruction and Maintenance Manual

6640-01-271-4094 Dry Heat Incubator, 110444

Instruction and Maintenance Manual

6640-01-308-7749 Refrigerated Centrifuge, 3497

Instruction Manual

6640-01-315-5382 Laboratory Centrifuge, Z320

Instruction Manual Service Manual

6640-01-416-1385 Flo-Thru CO2 Incubators, 325GVT, 325-1GVT

Service Manual

Service and Operating/Instruction Manual

(continued) APPENDIX F: CD 6 TABLE OF CONTENTS

6640-01-463-0068 Automated Microbiological Panel Reader, AutoSCAN - 4

Service Manual

6650-01-293-7240 Microscope Labophot 6650-01-325-3747 Microscope Labophot2

Operation and Preventive Maintenance

6650-01-406-1828 Microscope, BX40 System

Service Manual

6695-01-255-2855 Calibration Analyzer, RT-200

Operation/Service Manual

N/A Defibrillator Analyzer, QED-III

Operator's Manual

N/A Portable Dental X-ray Unit, MinXray P200D Mark III

Installation and Operating Instructions

N/A Power Instrumentation for Small Bone Surgery

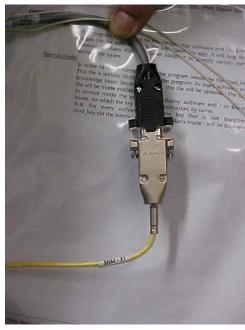
Instruction Manual

APPENDIX G: INVASIVE MONITORING INSTRUCTIONS

- 1. Remove front and left side panels
- 2. Remove cable SHA4-X1 from board SHA4
- 3. Install "test cable" in series with serial plug MAMEAS and cable SHA4-X1
- 4. Insert banana plugs into DC volt meter
- 5. Make x-ray and capture reading volts DC6. VDC = 3 times mA actual (i.e. 4.5VDC = 1.5mA)







APPENDIX H: CENTRALIZED CLASS VIII REPAIR PARTS PROGRAM AND PROCEDURES

- 1. Repair parts for medical equipment encompass those components, supplies, and other materials necessary to facilitate unit and higher-level maintenance support of medical equipment. Medical equipment repair parts, though normally Class VIII or Class IX items, can include all supply classes where such parts or materials are required to perform maintenance services or equipment repairs to return an item to a fully mission capable status. Class VIII repair parts do not include accessories or consumable supplies i.e. pipettes, operator replaceable tubing or batteries, jars or collection containers, and so forth which should be provided and funded as part of the organization's Unit Level maintenance program.
- 2. The US Army Medical Materiel Agency (USAMMA) operates a centralized medical repair parts program for Army organizations resourced within the authority of Modified Table of Organization & Equipment (MTOE). The purpose of the program is to provide an adequate and responsive Class VIII repair parts support contingency to support AMEDD MTOE organizations. The necessity to execute and manage a centrally managed Class VIII repair parts program within the AMEDD, particularly for MTOE organizations is required and essential to ensure deployable organizations with medical equipment are fully mission capable (FMC) upon deployment to support contingencies and combat operations.
- 3. The program's objective is to make available, to organizations with a field or sustainment maintenance capacity, the repair parts necessary to sustain deployable medical equipment in a fully mission capable (FMC) status. It has been determined that a contributing factor to TOE organizations not having an effective medical maintenance program has been the inability of repairers to obtain parts needed to maintain unit's medical equipment.
- a. Prevalent problems associated with the Class VIII repair parts process include parts no longer available from original equipment manufacturer (OEM) and a lack of standardization causing supply chain unresponsiveness, both of which result in frequently rejected parts requests at the local level.
- b. Utilization of in-house medical maintenance expertise within the supply chain has proven to reduce many repair parts difficulties. Moreover, the availability of a robust inventory of existing assets and a depot level cannibalization point, coupled with 25K Credit Card Authority, has proven to significantly improve repair parts supply chain responsiveness and customer satisfaction.
- c. Measurable benefits realized at the unit level, above and beyond the availability of class VIII repair parts to support a comprehensive medical maintenance program, are reduced costs associated with minimum order requirements, as well as a reduction in man-hours required for investigation and research.
- d. Additionally, the centrally managed Class VIII repair parts program facilitates the development of a central source of supply with a comprehensive information repository capable of providing invaluable repair parts utilization data to build push packages to support contingency operations.
- 4. The Centralized Class VIII Repair Parts Program is not intended to provide initial supply or resupply of PLL stocks and/or inventories.
- 5. Management of USAMMA's centralized medical materiel repair parts program will be in accordance with AR 710-1, Centralized Inventory Management of the Army Supply System; AR 710-2, Inventory Management Supply Policy Below the Wholesale Level; AR 40-61, Medical Logistics Policies and Procedures; DA PAMS 710-2-1 and 710-2-2.
- 6. The Centralized Class VIII Repair Parts Program will provide sustainment level maintenance repair parts support to Army MTOE organizations. Funding for repair parts support differs depending on whether the organization is operating in garrison as opposed to operating in contingency operation. In addition to the unit's operating status, funding is also dependant on the unit's component.
- a. Contingency Operations. Due to extreme conditions, as well as the extraordinary operation tempo associated with contingency operations, the Department of Defense allocates separate operating budgets (theater dollars) to support contingency operations. The US Army Medical Materiel Agency Centralized Class VIII Repair Parts Program will provide any and all repair parts support requested on a prepaid by theater or reimbursable basis for MTOE units in contingency operations.

(continued) APPENDIX H: CENTRALIZED CLASS VIII REPAIR PARTS PROGRAM AND PROCEDURES

- b. Garrison Operations. Funding for Repair Parts Support of MTOE units operating in garrison (not contingency operations) is further defined as follows:
 - (1) Non-reimbursable (Sustainment Maintenance Program)
- (a) COMPO 1 (Active Army). Repair parts support for active Army MTOE organizations includes all direct, general, and depot level maintenance parts and support requirements while the organization is in garrison.
- (b) COMPO 2 (National Guard). Repair parts support for Army National Guard organizations includes all direct, general, and depot level maintenance parts and support requirements while the organization is in garrison.
 - (c) COMPO 3 (Army Reserve).
- 1) Reserve Component Hospital Decrement (RCHD). Repair parts support for the USAMMA managed RCHD program includes all direct, general, and depot level maintenance parts and support requirements while the equipment is in USAMMA's charge.
- 2) Mission Essential Equipment Training (MEET) and Clinically Operational Equipment Sets (COES). Repair parts support for the USARC managed MEET and COES equipment includes only depot level maintenance support parts requirements. Medical repair parts that are no longer available from commercial sources are the only exception. All repair parts excluding depot level maintenance support parts requirements and parts no longer available from commercial sources should be obtained through the unit's supporting Regional Training Site, Medical (RTS-Med).
 - (2) Reimbursable/Prepaid (Unit/MACOM Funded)

COMPO 6 (Army Prepositioned Stocks (APS)) All repair parts support for APS medical equipment must be funded by the APS program on a reimbursable or prepaid basis. The exception is APS that has been handed off to a unit participating in contingency operations, for which funding is provided by the theater.

- 7. Class VIII Repair Parts Support Request Procedures.
- 1. Typically, the medical maintenance support structure should coincide with the medical supply support structure. Medical maintenance personnel should attempt to utilize established supply channels to the maximum extent possible. Appropriate use of the supporting supply channel, i.e. MEDLOG, IMSA, SMLIM, assists in establishing consequential and future logistical support requirements.
- 2. Installation Medical Supply Activities (IMSAs) and Medical Logistics Battalions/Companies (MEDLOGs) providing sustainment level medical maintenance support should consider contacting USAMMA directly to obtain repair parts support.
- 3. Likewise, unit level maintenance organizations, which due to locality are experiencing difficulty or delays with conventional supply channels to the extent that equipment or unit readiness is significantly impacted, may consider contacting USAMMA to obtain repair parts support.
- 4. For sustainment level medical maintenance repair parts support, call USAMMA @ (801) 586-4947 or DSN 586-4948.

2005 INDEX FOR DA SB 8-75-S2

Paragraph Subject	SB 8-75-	<u>Page</u>
Abaxis Blood Gas Analyzer, Model Piccolo Alaris Infusion Pumps, Model 2863B Available Operator and Maintenance Literature	S2 S2 S2	1-1 1-1 1-2
Invasive Monitoring of mA for the Philips BV 300 C-Arm	S2	1-2
Lifepak 10 Defibrillator/Monitor, NSN 6515-01-453-4003	S2	1-2
Maintenance Directorate Personnel Maintenance Divisions' Addresses	S2 S2	1-2 1-3
Surgical Unit, Arthroscopic, NSN 6515-01-495-1668	S2	1-4
The U.S. Army Medical Materiel Agency Centralized Class VIII Repair Parts Program	S2	1-4
TMDE Program Manager Address Change Tool Kit, Medical Equipment Maintenance and Repair: Repairman's, NSN 5180-00-611-7923, LIN W45334	S2 S2	1-5 1-5
USAMMA's Maintenance Engineering and Operations Directorate On-line	S2	1-5
USAMMA TMDE Calibration Support	S2	1-6

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