

## DEPARTMENT OF THE ARMY SUPPLY BULLETIN

### Army Medical Department Supply Information

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

20 June 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Effective until rescinded or superseded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.

	Table of Contents	Page
Chapter 1	- Medical Maintenance General Information .....	1-1
Chapter 2	- Medical Maintenance Operations Information .....	2-1
Appendix A	- Operating Table Components .....	A-1
Appendix B	- External O2 Regulator Verification .....	B-1
Appendix C	- External N20 Regulator Verification .....	C-1
Index	- .....	I-1

#### Special Notice

This Supply Bulletin is Dedicated Entirely To The  
**Maintenance Engineering and Operations Information**

**CHAPTER 1. MEDICAL MAINTENANCE GENERAL INFORMATION**

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**1-1. EQUIPMENT SUPPORT**

a. When shipping medical equipment for services at any one of the USAMMA Maintenance Divisions please include the following information:

- Owner UIC:
- Owner DODAAC:
- Unit Name:
- Branch of Service: (Regular Army, National Guard, Air Force, Navy)
- Shipping Address:
- City:
- State:
- Zip Code:
- Point of Contact:
- Commercial telephone number:
- DSN:
- FAX:
- E-mail Address:

b. This information is critical for the timely processing of your equipment and providing better customer support.

c. The three Maintenance Operations Divisions provide equipment technical support for the states indicated below:

Tracy, CA, DSN: 462-4556, Commercial: 209-839-4556

WA	OR	CA	NV
AZ	NM	TX	OK
AR	LA	MS	HI

HILL AFB, UT, DSN: 586-4947, Commercial: 801-586-4947

AK	ID	MT	WY
UT	CO	ND	SD
NE	KS	MN	IA
WI	MO	IL	MI
IN	KY		

Tobyhanna, PA DSN: 795-7744, Commercial: 570-895-7744

TN	AL	GA	FL
SC	NC	VA	WV
OH	VT	PA	NY
NH	ME	MA	RI
CT	NJ	DE	MD

d. If you have questions regarding support, contact the Maintenance Division that supports your area. Information is also available at [www.usamma.army.mil/maintenance/org1.html](http://www.usamma.army.mil/maintenance/org1.html).

e. For Army Reserve support, please coordinate with your regional training site.

## **1-2. INSCRIBING EQUIPMENT**

Please do not permanently inscribe local and unit information onto your medical equipment. When equipment is turned in to the USAMMA, every effort is made to rebuild the equipment to a like new condition. Inscribing unit information on the equipment significantly increases the cost of refurbishing these items for re-issue. To mark your equipment, please use a label.

## **1-3. MAINTENANCE DIRECTORATE PERSONNEL**

a. The MEOD serves as an 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 USAMMA 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)

## **1-4. 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 MED MAINT OPS DIV - PA  
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

**1-5. OXYGEN NUT PERFORMANCE**

a. Due to the variances in the delivery of gases, altitude, and the individual differences in setup; the performances of different items may be affected. Recently, the USAMMA has discovered that the type of DISS oxygen nut (a.k.a. nipple)

supplying the oxygen to their equipment may affect the performance of the item. The USAMMA was rebuilding a Model 750M Ventilator connected to a DISS oxygen nut with a filtered orifice. The orifice restricted the flows and caused improper adjustments to be made on the ventilator.

b. The maximum volume ranges (per Impact Instrumentation Inc.) are 1530 ml minimum to 1870 ml maximum at 16 breaths per minute and 1-second inspirations. Using an RT 200 for verification, the readings were below 1530 ml up to 1610 ml. Changing the oxygen nuts to a demand one-way check valve improved the output flows. After readjustment of the ventilator, the volume and flow rate should be within the acceptable range. The check valve can also be replaced with a bored open oxygen nut. The ventilator will again have to be readjusted to meet performance specifications.

c. Please be aware of these variances and verify the type of oxygen nut and connections you are using. Adjust your ventilators to compensate for the different oxygen nuts you are using. Different altitudes required consideration when compensating and calibrating items. Make sure to verify that the ventilator is fully calibrated before releasing it for patient use.

#### **1-6. STORAGE AND SHIPPING CONTAINERS**

a. Many of the re-usable containers used to store and ship medical equipment and test, measurement, and diagnostic equipment (TMDE) contain foam products that deteriorates due to age or other factors. Over time and with use, the foam begins to break down into tiny flakes. This condition can render the TMDE and other medical equipment useless or have an impact on the full mission capability of the equipment and/or calibration verification.

b. If you cannot replace the foam inside your re-usable containers, we highly recommend that you place the TMDE/medical equipment items in a plastic bag prior to placing it into the case. This will prevent contamination of the equipment.

c. The MMOD at Hill AFB, Utah, has made arrangements with ADR Packaging to manufacture the inserts used in different cases. They use a polyethelene foam in gray at 0.9 lb density, in green at 1.2 lb density, and in blue at 1.7 lb density.

d. The USAMMA has had very good results with the green polyethelene. The cost of the 1.2 lb density is approximately \$0.50 - \$0.60 per board foot (12" x 12" x 1") plus scrap that results in the forming of the pieces.

e. ADR Packaging can be contacted at 400 North Geneva Rd #C, Lindon, UT 84042. Telephone number is 801-796-3700. Fax number is 801-796-3800.

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**CHAPTER 2. MEDICAL MAINTENANCE OPERATIONS INFORMATION**

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**2-1. AIR INTAKE MANIFOLD FOR THE 754M VENTILATOR, 6530-01-464-0267**

a. While performing PMCS on the 754M Impact Ventilator, if there is a failure to produce sufficient air flow (601 lpm) on either the O<sub>2</sub> or air regulated by the manual valve control test fixture, it can be traced back to the O<sub>2</sub>/air intake manifold.

b. To correct this problem, remove the intake manifold from the ventilator. Disassemble the variable orifice valves from both O<sub>2</sub> and regulated air sections. Set both transducers to the side. After locating and removing 400 and 500 micro filter screens and o-rings, submerge remaining aluminum blocks in 70% alcohol solution. Use canned air to blow dry block and orifices. Swab a few drops of alcohol into the flow ports of the four variable orifice valves and use canned air to blow dry. Reassemble manifold and perform air flow test.

**2-2. ARTHROSCOPIC SYSTEM, 6515-01-431-9631**

a. While conducting preventive maintenance checks and services (PMCS) on the Olympus-America, Inc. arthroscope, the fiber optic bundle should be inspected carefully, ensuring that it still has 80 percent light conductivity and no breaks in the center of the bundle. PMCS includes a visual inspection of the equipment for any damaged or deficiencies that will prevent the unit from being used or sterilized.

b. The Arthroscope System comes with one each of the following items:

3093, Fiberoptic cable, 6515-01-139-8567

7584, Single sheet with stopcock (PBTURATOR, CONICAL), 6515-01-166-3504

7599, Trocar, Pyramid, 6515-01-166-3528

7600, Trocar, Blunt Tip Sleeve, 6515-01-173-2452

7595, Scope, 6515-01-171-6050

**2-3. BATTERY SUPPORT SYSTEM, 6625-01-192-9460**

The Battery Support System for use with Physio Control's Defibrillators/Monitors Life Pak 5 has two items to note:

(1) Case leakage of the Battery Support System should be less than 100uA with both an open ground and normal ground. In order to make a good ground contact, insert a probe in the rear vents of the unit and make contact with the heat sink.

(2) Ground resistance for the Battery Support System cannot be verified using a safety analyzer. Verify resistance using a multimeter from the AC ground pin to the negative battery terminal in the battery (charging) compartments. The reading should be less than .66 ohms.

#### **2-4. FIELD OPERATING TABLE, 6530-01-353-9883**

The field operating table, model 2080, manufactured by Steris Corporation, LIN T00029, is supplied with a number of accessory components. The list of accessories supplied with the table is taken from the Medical Procurement Item Description (MPID). Appendix A shows a picture for each part. For ease of inventory and operational readiness, you should make a copy of this list and include it with the manufacturer's literature.

#### **2-5. INTRAVENOUS INFUSION PUMP, 6515-01-498-2252**

The Infusion Dynamics Intravenous Infusion Pump has an accessory called the Crystalloid and Colloid Pump Cartridge and IV Set (part number 0040-0050). Please be aware that the date on the back of the package is the manufactured date. There is no expiration date printed on the package. The manufacturer explained that a 3-year shelf life was specified to the Army when the infusion pump was acquired. Although it has not been tested in extreme heat, the manufacturer states that the 3-year shelf life would be shortened to 1-year shelf life if the IV Set was exposed to such conditions.

#### **2-6. MONITOR, VITAL SIGNS, 6515-01-432-2711 AND 6515-01-432-2707**

Technicians at the USAMMA's Medical Maintenance Operations Division have identified some valuable information for the Vital Signs monitors.

(1) When using the INSERV features of the Welch Allyn Propaq 206EL, having the accessories connected will not enable this feature. Refer to section 2 of the service manual for complete instructions to unplug all accessories before trying to use the INSERV feature.

(2) After completing the services and before placing the monitor in storage, ensure that the recording paper is removed from the recorder or the paper is not fed through the print head. Leaving the paper fed through the print head for prolonged storage can damage the print head assembly.

(3) For long or short-term storage it is a good idea to place the monitor inside a plastic bag for protection from the elements and loss of any articles that may come loose inside the case.

#### **2-7. OPTICAL MICROSCOPE, 6650-00-973-6945**

The Optical Microscope, Model STEREOZOOM 4, is out of production but still being issued to field medical units. Parts can still be obtained through Microscope Services, Reichert Inc., in New York. Their phone number is 716-686-3166 and their website is [www.reichert.com](http://www.reichert.com).

**2-8. RESPIRATION FUNCTION OF THE VITAL SIGNS MONITOR, 6515-01-432-2707 AND 6515-01-432-2711**

a. Several Vital Signs Monitors delivered to the USAMMA in 2001 and 2002 did not have the respiration function activated, contrary to the requirements of the contract. Welch Allyn provided the training and loaned the necessary equipment to activate the functions to the technicians at the MMOD at Hill AFB, Utah. The equipment was loaned to MMOD for one (1) year and six (6) months. As of April 2005, the equipment was returned to the manufacturer and the USAMMA will no longer be able to activate the respiration function.

b. If you are assigned to an Army field medical unit and have a Vital Signs Monitor that does not have this function activated, you will need to contact Welch Allyn Protocol and provide the equipment's serial number. If the serial number of your monitor is on the list identified by the manufacturer as being one of the monitors procured on the contract, Welch Allyn will activate the function at no cost to the customer. In addition if you would like to verify the respiration function of your monitor, look at the label on the left side of the equipment. The label either says ECG/EKG RESP, or it says ECG/EKG. If it does not have RESP, it is not installed. Also, when you turn the unit on, if you can select RESP (2nd from the left), it is installed.

c. Contact Welch Allyn Protocol Inc's Customer Service at 8500 S.W. Creekside Place, Beaverton, OR 97008. Or you can call them at 800-289-2500. Select option "1" twice.

**2-9. RIKEN METERS FOR THE ANESTHESIA APPARATUS, 6515-01-457-1840**

a. The RIKEN meters with accessories, are generally delivered without the hose assembly that connects between the fresh gas outlet of the Narkomed-M Anesthesia Apparatus and the inlet port of the RIKEN. To make this hose assembly, use a fresh gas hose (Drager PN: 4108577). Glue the end that connects to the absorber assembly into the small end of the "tee" that comes with the RIKEN meter kit. Attach the white tubing that goes to the RIKEN inlet port to the barb on the "tee."

b. The equipment manufacturer does not have a replacement part number for the 13/16" od tubing that goes from the high pressure regulator to the cylinder gauge inside the anesthesia unit. For repairs, this must be purchased locally and cut to fit.

**2-10. SURGICAL LIGHT FOR THE FIELD OPERATING TABLE, 6530-01-321-5592**

a. Electrical Safety testing of the surgical light has disclosed that an unacceptable leakage current level exists in some of the lights that are part of the field operating table. A solution was posted on the USAMMA website that applied to one type of circuit board. Additional information was provided by RTS-Medical personnel at Fort McCoy, WI, that relates to the JT-101 and YH75A power supply PCBs.

b. If your FST OR table surgical lights have an electrical leakage problem (>300 UA) follow these instructions:



(1) Step 1: Remove the plastic terminal cover at the bottom of the lamp column and make a small mark with a permanent marker on the red lead to the power supply PCB that is connected to the black lead of the incoming power cord. Continue with the disassembly of the lamp by removing the base joint assembly and middle knuckle of the lamp. Remove the two screws securing the PCB heat sink about halfway up the lamp column. Undo the wire nuts at both ends and slide the PCB out the bottom of the column.

(2) Step 2: Identify the board you are modifying and locate the hot lead.

(a) If you have a YH75A board, its number will be found on the right edge of the component side of the board. The YH75A hot lead is located on the opposite side from the part number and heat sink ground lug viewed from the component side. Trace the lead from this wire and it goes to the line fuse.

(b) A JT-101 board will be labeled on the "run" side, in the upper middle. The JT-101 board is laid out with the hot lead on the same side as the heat sink ground lug, going to a fusible link (the very thin wire overlaying the resistor symbol silk screened on the component side). Don't be concerned if the black mark you made in Step 1 seems to be reversed. Many of these boards were connected backwards during assembly. The fuse should always be connected to the incoming (hot) side. If your connection is reversed, correct it now by gently scraping off the small black mark and applying a larger one to the hot lead. You may also mark the other red wire (neutral) with a white marker. This precludes any need to de-solder and replace the existing red wires.

(3) Step 3: "Float" or electrically disconnect the ground pad of the PCB. Unscrew the lug from the heat sink. Use a small diagonal cutter and snip off the lug flush with the surface of the PCB. Snip off the green ground wire where it enters the PCB. (No soldering iron needed for this step.)

(4) Step 4: Connect the isolated ground lug to the neutral lead. This step diverts risk current to neutral. Some risk current is induced due to the proximity of the runs on this board. The balance probably comes through the two filter capacitors which terminate on the ground pad. These caps are present on both power supply modules. They are thin film ceramic caps with high dielectric ratings (350 V to 3.3 kV on the samples encountered).

(5) Step 5: Acquire a 28 AWG stranded signal wire, strip it and pull out a single strand. This should measure about .010 inch in diameter. For comparison, the fusible link wire found on the JT-101 board measures about .007-inch. Solder this wire between the ground pad and the neutral pad. Use of 60/40 solder with rosin flux will facilitate this operation and probably eliminate the need for additional solder. This thin wire will carry risk current and protect the board if an equipment malfunction occurs.

(6) Step 6: Place a ring terminal on the line cord ground lead and connect it to the chassis with a 6-32 screw and nut. Drill a hole between and slightly below the screw holes for the line cord terminal cover. Face the screw head out and the cover should fit over it during reassembly of the lamp.

(7) Step 7: Reassemble and safety test the lamp using normal and reverse polarity. You may also open and close the ground switch as part of the test. This should bring the electrical leakage within (<300 uA) acceptable limits.

### **2-11. TOTAL FLOW BACKUP ERROR ON THE 754M VENTILATOR, 6530-01-464-0267**

a. The USAMMA has been working with Impact Instrumentation Inc. on problems found with the Model 754M Ventilator. There was a problem producing a "Total Flow Backup" error when performing the corresponding steps in the test procedures. Some ventilators will develop a leak between the compressor air inlet assembly and the compressor barb. The black busing (part number 340-0019-00) eventually stretches and develops an open space. This causes the compressor to pull air from inside the ventilator. If this happens you cannot get the ventilator to generate a "Total Flow Backup" alarm by partially occluding the compressor inlet fitting.

b. Follow the steps below for generating the "Total Flow Backup" alarm:

- (1) Ensure that the settings are correct.
- (2) Unscrew the 22mm gas outlet adapter from the manifold assembly.
- (3) Remove the 400m transducer screen from the manifold assembly.
- (4) Let the ventilator cycle 4 to 5 breaths.
- (5) The "Total Flow Backup" alarm should occur.
- (6) Press the Mute/Cancel push-button. The alarm LED and audible alarm should turn off and the AMC message should remain.

### **2-12. TROUBLESHOOTING TIP FOR THE 754M VENTILATOR, 6530-01-464-0267**

During routine checks of the 754M Ventilator, if the battery-charging voltage is below the tolerance voltage of 12 volts DC, check the output of U1 on the motor drive circuit board. The part number for the motor drive board is 702-0754-05. The part number for U1 is 055-3578-00.

### **2-13. VERIFICATION PROCEDURES FOR THE NARKOMED M REGULATORS**

Currently there are no verification procedures for the external O2 and N2O regulators supplied with the anesthesia machine. The USAMMA has developed procedures to verify the performance of the regulators. ALL test procedures verify that the regulators operate according to Flotec specifications. Appendix B gives verification steps for the O2 regulator, part #RN510-600. Appendix C gives verification steps for the N2O regulator, part #RNJM05-6005.

### **2-14. VITAL SIGNS MONITORS AND ENCORE PROPAQ UNITS**

a. A problem has been identified with some Vital Signs Monitors, Models 100 series and 200 series, and Encore Propaq Units, NSNs 6515-10-432-2707, 6515-01-432-2711, 6515-01-423-5872, and 6515-01-423-5796. These items may

experience a printer door malfunction with symptoms including printer not functioning or printer door not staying closed.

b. The printer door assembly is connected to a linkage. When closed, it activates the printer. The linkage can fall off, which causes the printer to malfunction. A parts kit (part number 123-098-5342) is available containing a washer and a retaining grommet that affixes to the tab of the door pin so the linkage does not come off.

c. To obtain the kit or more information regarding this issue contact the Maintenance Operations Division at Tobyhanna Army Depot at DSN 795-7843 or commercial 570-895-7843.

## **2-15. X-RAY APPARATUS, DENTAL, HANDHELD, 6525-01-425-5216**

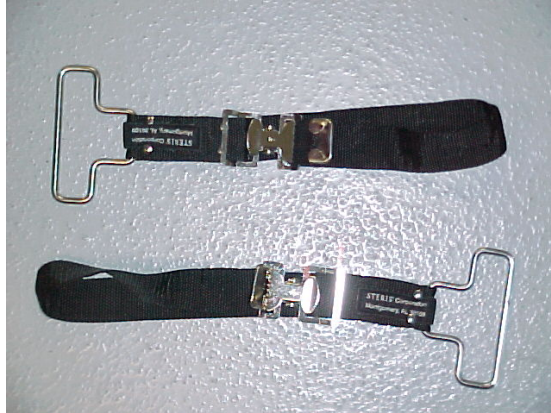
a. A problem has been identified with the Dent X, model HDX. When trying to make an exposure with the unit yoke exposure switch, the unit does not release an exposure. When using the unit's hand switch the unit makes an exposure. The problem has been identified with an internal connector (brown and yellow wires). It falls off easily when removing the control panel.

b. When you service the unit and take the control panel off, ensure that you tie-wrap the three bundles of wires that are coming out of the power supply assembly into the control panel. Securing the wires will prevent the connector from falling off and preventing proper system operation.

**APPENDIX A. OPERATING TABLE COMPONENTS**

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Adhesive Tape Holder (Pair), Part #P018688-091



Winged Ether Screen Assy, Part #P077033-091



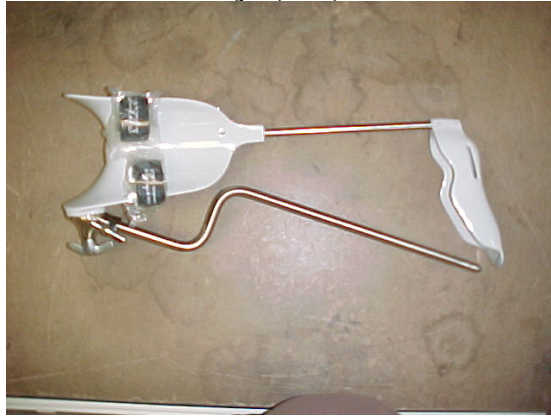
Lateral Braces (Pair), (AKA Kidney Bridge Post)  
Large: Part #P626397-001, Small: Part #P626397-002



Wrist Holder Assy. (Pair), Part #P077036-091  
(No longer available from Steris Corp.)



Knee and Footrest Assy. (Pair), Part #P077040-091



Pads, (Complete packaging of 3), Part #P150830177



(continued) APPENDIX A. OPERATING TABLE COMPONENTS

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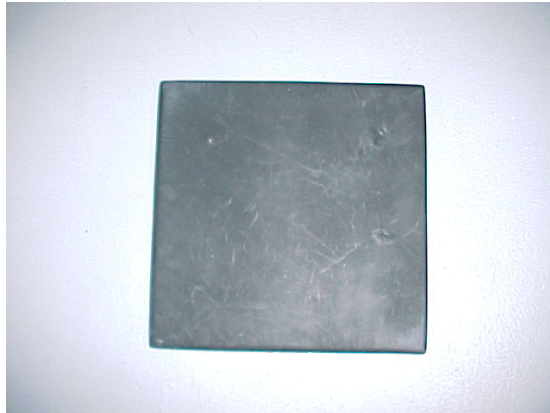
Pad, Foot Section, Part # P093074-001



Pad, Back Section, Part # P093075-001



Pad, Head Section, Part # P093076-001



X-ray Top Sections (Head, Back, Seat, Leg), Part 129357-096



3" Arm Board Pad, Part #P150830-168



Arm Board w/o Pad, Part #P056130-001



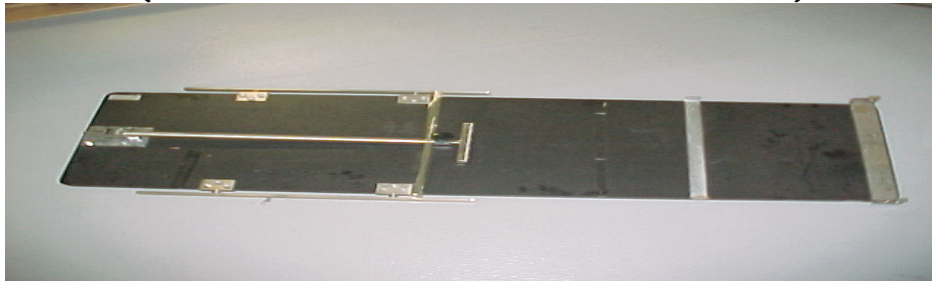
(continued) APPENDIX A. OPERATING TABLE COMPONENTS

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Clark Sockets (4 ea), Part #77038-091  
Sold in Pairs \$255  
(No longer available from Steris Corp.)



62" Image Intensifier Board, Part # BF16-400  
**(NOT SUPPLIED WITH CURRENT ISSUED TABLES)**





**APPENDIX B. EXTERNAL O2 REGULATOR VERIFICATION**

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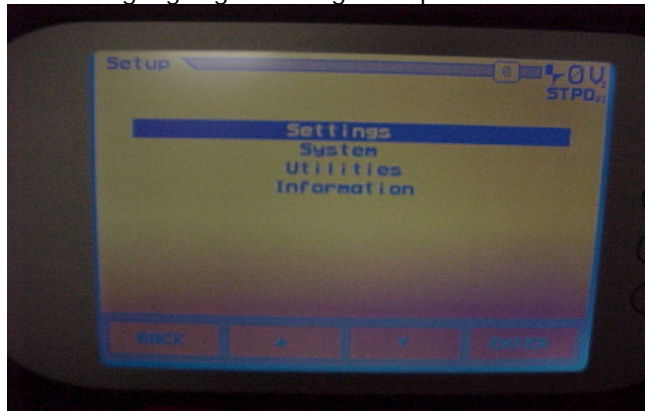
Install External O2 Regulator to H or K size Oxygen cylinder.  
Make sure cylinder has 250 - 3000 psi.



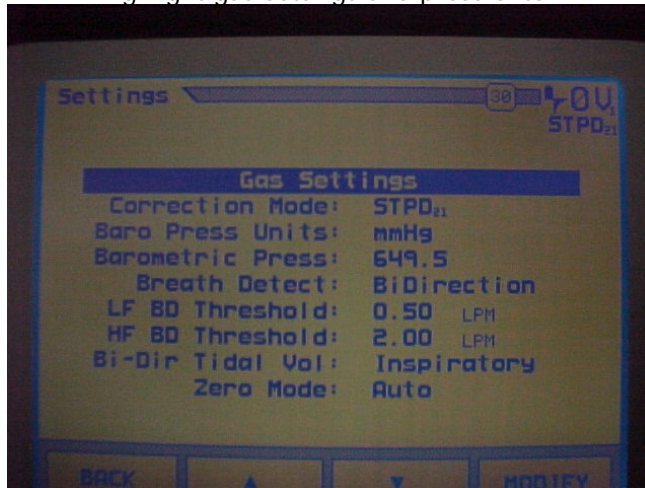
Install one end of Oxygen hose to the O2 regulator output connector.  
Setup VT Plus to read oxygen pressure.  
Power up and let it zero after 5 minutes.  
Press the pressure test mode button.  
Press the setup button.  
Highlight settings and press enter.



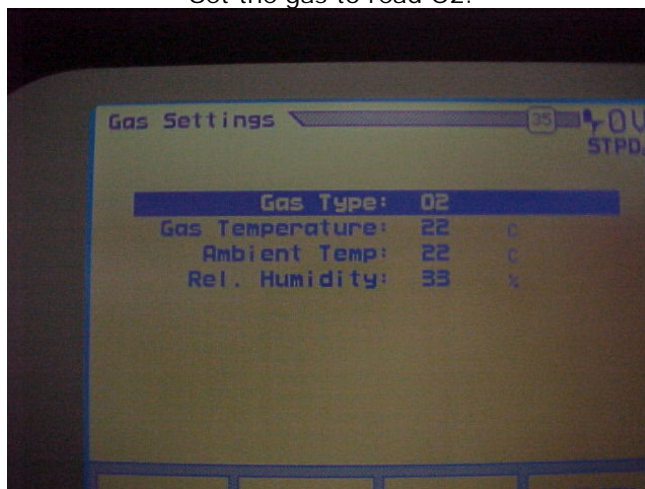
Highlight gas settings and press enter.



Highlight gas settings and press enter.



Set the gas to read O2.



Press back until in the pressure test mode again.

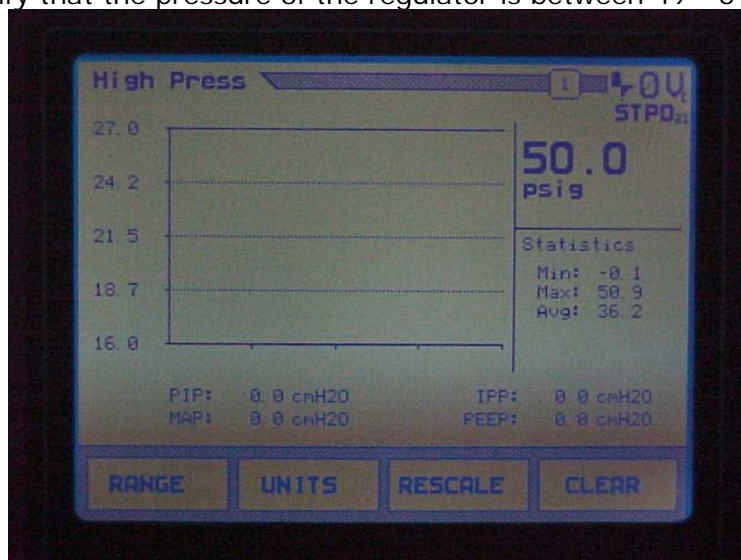
(continued) APPENDIX B. EXTERNAL O<sub>2</sub> REGULATOR VERIFICATION

Install the other end of the oxygen hose to the positive pressure connection of the VT Plus.



Open the oxygen (H or K) cylinder.

Verify that the pressure of the regulator is between 49 - 54 psi.



Disconnect the oxygen hose from the O<sub>2</sub> regulator.  
Disconnect the O<sub>2</sub> regulator from the oxygen cylinder.

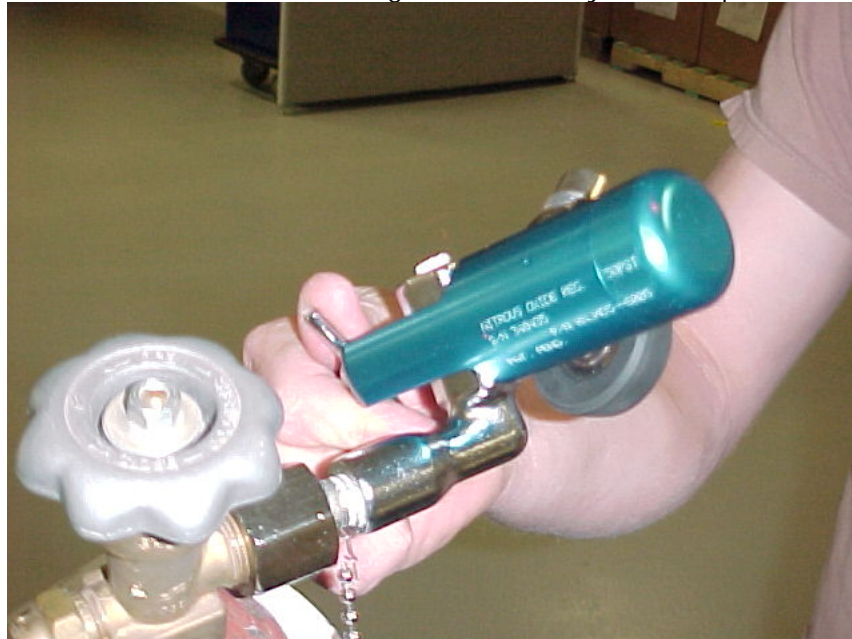
APPENDIX C. EXTERNAL NO<sub>2</sub> REGULATOR VERIFICATION

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Connect N<sub>2</sub>O cylinder adapter to H or K size cylinder of nitrous oxide.



Connect external N<sub>2</sub>O regulator to N<sub>2</sub>O cylinder adapter.



(continued) APPENDIX C. EXTERNAL NO2 REGULATOR VERIFICATION

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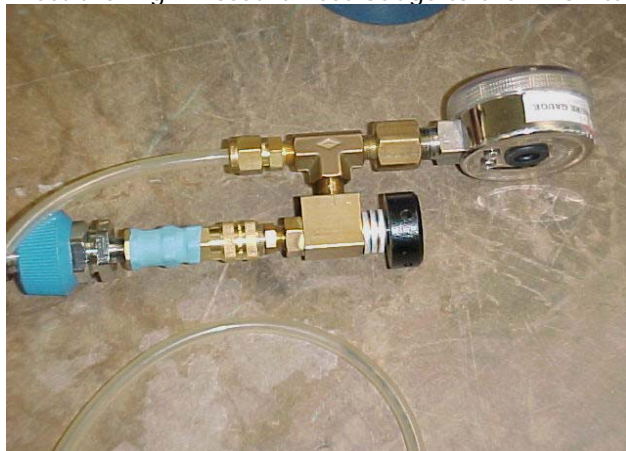
Connect one end of a blue N2O hose to the regulator output connector.



Connect the other end of the blue N2O hose to the N2O fitting from the Narkomed Kit Part # 4114807 (fitting with male connection).



Connect the High Pressure Test Gauge to the N2O fitting.

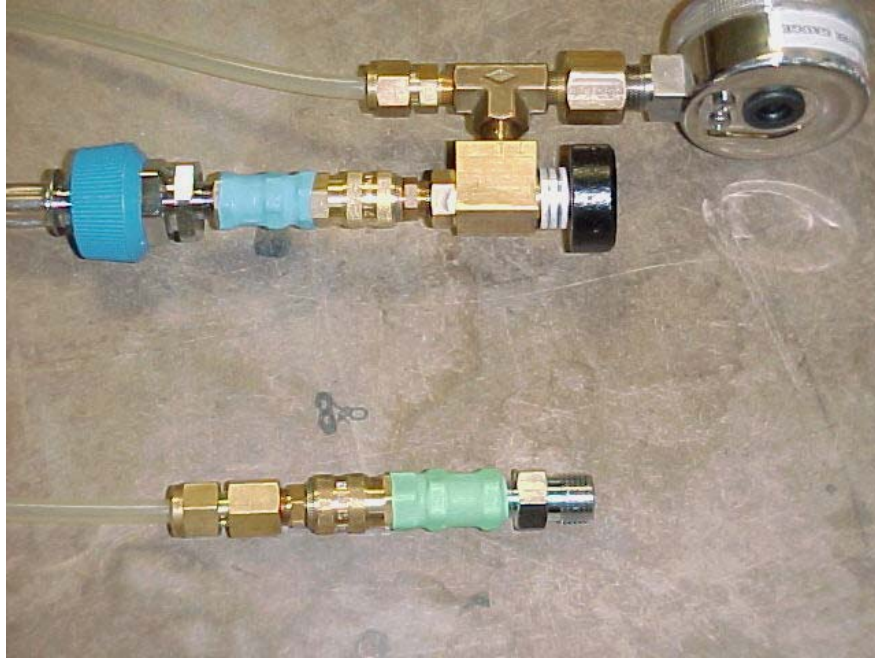


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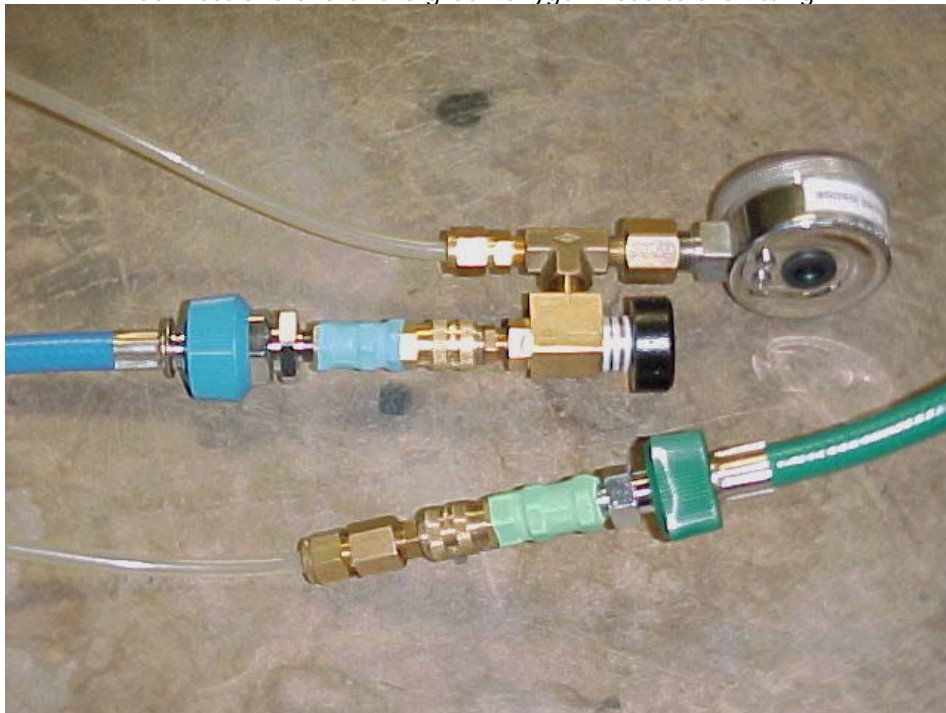
(continued) APPENDIX C. EXTERNAL NO<sub>2</sub> REGULATOR VERIFICATION

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Connect the hose of the High Pressure Test Gauge to male oxygen fitting from the Narkomed Kit, Part #4114807.

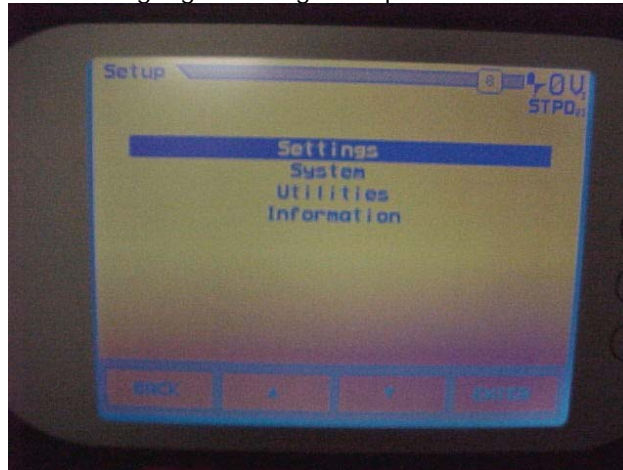


Connect one end of the green oxygen hose to the fitting.

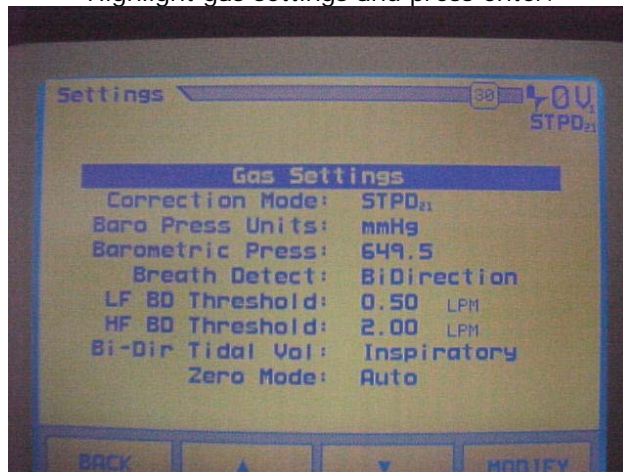


Setup the VT Plus to read N<sub>2</sub>O.  
Power up and let it zero after 5 minutes.  
Press the pressure test mode button.

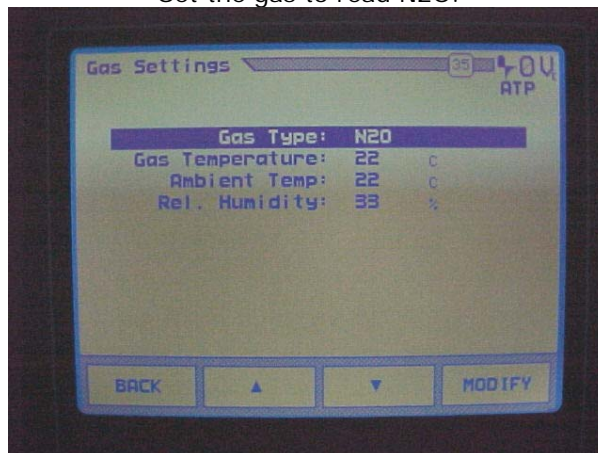
Press the setup button.  
Highlight settings and press enter.



Highlight gas settings and press enter.



Set the gas to read N2O.



Press back until in the pressure test mode again.

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(continued) APPENDIX C. EXTERNAL NO<sub>2</sub> REGULATOR VERIFICATION

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Connect the other end of the oxygen hose to the positive pressure connection of the VT Plus.

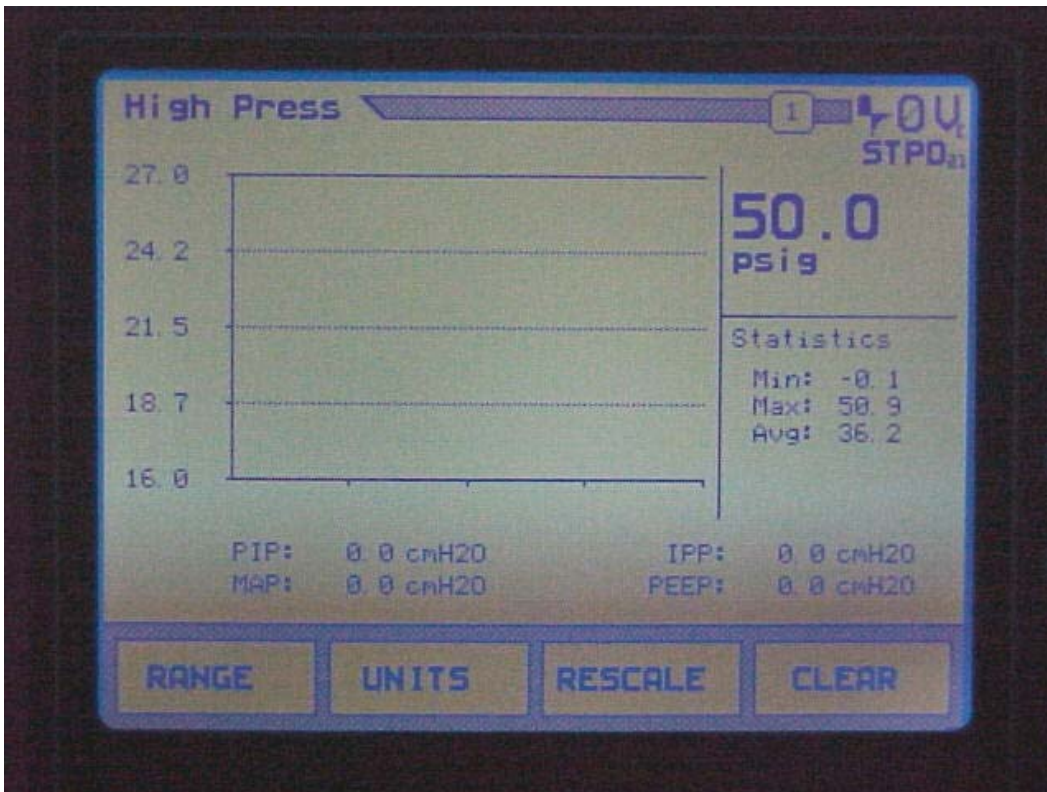


Open the N<sub>2</sub>O (H or K) cylinder.  
Press and hold the push button on the High Pressure Test Gauge.





Verify that the pressure read on the VT Plus from the regulator is between 49 - 54 psi.



Disconnect all fittings, hoses, and components of this test and return to proper location.

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**2005 INDEX FOR DA SB 8-75-S6**


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<u>Paragraph Subject</u>	<u>SB 8-75-</u>	<u>Page</u>
Abaxis Blood Gas Analyzer, Model Piccolo	S2	1-1
Air Intake Manifold for the 754M Ventilator, 6530-01-464-0267	S6	2-1
Alaris Infusion Pumps, Model 2863B	S2	1-1
Arthroscopic System, 6515-01-431-9631	S6	2-1
Available Operator and Maintenance Literature	S2	1-2
Battery Support System, 6625-01-192-9460	S6	2-1
Equipment Support	S6	1-1
Field Operating Table, 6530-01-353-9883	S6	2-2
Inscribing Equipment	S6	1-2
Invasive Monitoring of mA for the Philips BV 300 C-Arm	S2	1-2
Intravenous Infusion Pump, 6515-01-498-2252	S6	2-2
Lifepak 10 Defibrillator/Monitor, NSN 6515-01-453-4003	S2	1-2
Maintenance Directorate Personnel	S2	1-2
Maintenance Directorate Personnel	S6	1-2
Maintenance Divisions' Addresses	S2	1-3
Maintenance Divisions' Addresses	S6	1-2
Monitor, Vital Signs, 6515-01-432-2711 and 6515-01-432-2707	S6	2-2
Optical Microscope, 6650-00-973-6945	S6	2-2
Oxygen Nut Performance	S6	1-3
Respiration Function of the Vital Signs Monitor, 6515-01-432-2707 and 6515-01-432-2711	S6	2-3
Riken Meters for the Anesthesia Apparatus, 6515-01-457-1840	S6	2-3
Storage and Shipping Containers	S6	1-4
Surgical Light for the Field Operating Table, 6530-01-321-5592	S6	2-3
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	S2	1-5
Tool Kit, Medical Equipment Maintenance and Repair Repairman's, NSN 5180-00-611-7923, LIN W45334	S2	1-5
Total Flow Backup Error on the 754M Ventilator, 6530-01-464-0267	S6	2-5
Troubleshooting Tip for the 754M Ventilator, 6530-01-464-0267	S6	2-5
USAMMA's Maintenance Engineering and Operations Directorate On-line	S2	1-5
USAMMA TMDE Calibration Support	S2	1-6

<u>Paragraph Subject</u>	<u>SB 8-75-</u>	<u>Page</u>
Verification Procedures for the Narkomed M Regulators	S6	2-5
Vital Signs Monitors and Encore Propaq Units	S6	2-5
X-Ray Apparatus, Dental, Handheld, 6525-01-425-5216	S6	2-6

By Order of the Secretary of the Army:

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