



MEDICAL MAINTENANCE EQUIPMENT TIP SHEET

Medical Device Nomenclature

Defibrillator Monitor-Recorder System Propaq

LIN: D86072 **NIIN:** 01-659-4040 **Manufacturer:** ZOLL Medical Corporation

Model: 303-2451312-01 (Propaq MD) - 120/230V 50/60HZ AC or DC

User and Maintainer Resources

Visit [TEWLS](#)



Representative Photo Only

Types of Organizations Who Have the Device:

Brigade Support Battalion • Brigade Combat Team • Area Support Medical Company • Forward Resuscitative and Surgical Medical Team • Field Hospital • Hospital Company • Special Operations Aviation Regiment • Airborne Special Forces Group Support Battalion and Special Operations Airborne • Medical Company Air Ambulance • Civil Affairs Brigade

Level of Support: Field

- Preventive Maintenance Checks and Services (PMCS), operating power verification, self-test and validation
- Cleaning, disinfection, inspection of accessible components
- Preservation, lubrication, tightening, replacement, and minor adjustments
- Replacement of unserviceable parts, modules, and assemblies
- Identification and performance actions to prevent corrosion

Level of Support: Biomedical Equipment Specialist (BES)

- Technical inspections (TI) to determine serviceability and completeness
- Lubrication, cleaning, preserving, tightening, replacement, minor adjustments; diagnosis and fault isolation; replacement of unserviceable parts, modules, and assemblies
- Determine the level of repair of unserviceable materiel
- Evacuate to the next higher level if beyond authorization
- Adjustment, and alignment of modules that can be readily completed with assigned tools and Test, Measurement, and Diagnostic Equipment (TMDE)
- Identify and annotate corrosion and take corrective actions; electrical safety inspections; verification of system outputs; validation of system calibration

Level of Support: Below Depot

- Sustainment below depot support includes all support conducted by organizational BES and additional tasks as determined by U.S. Army Medical Research & Development Command (USAMRDC) to be below depot sustainment support or lower.

Level of Support: Depot

- Depot and original equipment manufacturer are the only levels authorized to perform module and PCB repair.
- All overhauls and rebuilds must be authorized by the U.S. Army Medical Logistics Command (AMLC).

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Field Maintenance Tips:

- This unit can generate up to 2,775 volts and can cause lethal shock. A “stand clear” must be warned prior to discharge. Do not discharge more than three times in one minute or damage my result.
 - At minimum, trained biomedical technician must perform CO2 calibration and NIBP calibration check once per year. It is necessary to perform maintenance tests after module is repaired to ensure functions of the unit work properly.
 - The following TMDE is required to service the system: Defibrillator analyzer, ECG simulator, SpO2 simulator, Invasive Blood Pressure (IBP)/Temperature simulator, Non-invasive Blood Pressure (NIBP) simulator, 5% CO2 calibration gas, stop watch, DC power supply, and digital multi-meter.
 - The following accessories are needed for the options maintenance tests: 3-lead, 5-lead, and 12-lead ECG cables, dual lumen NIBP hose, IBP cable, SpO2 cable and sensor, EtCO2 cable and sensor, paddles, printer paper, battery, auxiliary power source, and USB thumb drive.
 - The following operational tests are available in the Supervisor/Service/Device Test menu (the supervisor passcode is required to enter this menu): Keypad, LED, LCD, RFU indicator, audio, printer, battery, fan, NIBP, and USB.
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Warranty Information:

- ZOLL Medical offers a five year warranty for defects in material and workmanship under normal use and service. They will either repair or replace defective material. If no defects are found a service charge shall apply.
 - All parts and labor, all shipping and insurance costs, and service loaner during repair are covered.
 - Accessories (cables, paddles, sensors, battery, and electrodes) are covered for 90 days.
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