



MEDICAL MAINTENANCE EQUIPMENT TIP SHEET

Medical Device Nomenclature

Refrigerator Solid State Bio

LIN: R64126 **NIIN:** 01-506-0895

Manufacturer: CSAFE GLOBAL **Model:** HMC-MIL-1 (AX56L)

User and Maintainer Resources (*Medical Materiel Information Portal*)
<https://go.usa.gov/x7j8U>



Types of Organizations Who Have the Device:

- Brigade Support Battalion
- Hospital Center
- Forward Resuscitative and Surgical Medical Team
- Preventive Medicine Medical Detachment
- Combat Support Hospital
- Special Forces Groups

Level of Support: Field

Field support includes operator visual inspection, cleaning, disinfection, and operating power verification. Organizational Biomedical Equipment Specialist (BES) support includes preventive maintenance and system output verification. Most repairs need to be performed by the Original Equipment Manufacturer (OEM). Devices should be evacuated to support organizations when organizational-unit resources are unavailable or when the repair is beyond unit authorization.

Level of Support: Below Depot

This level of support includes all support performed by organizational BES personnel, additional tasks cited in the Maintenance Allocation Chart (MAC), or tasks designated in the Life Cycle Support Plan (LCSP) as below depot sustainment or lower.

Level of Support: Depot

This support is designated in the MAC or LCSP as depot sustainment support or lower. Depot and OEM support resources are the only levels authorized to perform troubleshooting and repair in excess of what is cited in the maintenance procedures. Overhauls or rebuilds must be authorized by U.S. Army Medical Materiel Development Activity, Program Management Office-Medical Device Assembly Management.

Startup List: <https://go.usa.gov/x7j9D>

Field Maintenance Tips:

- In the COOL mode (4° C [39° F]), the unit, provided its two internal 21-ampere-hour batteries are properly charged, will maintain a temperature range of 1° C (34° F) to 6° C (43° F) for more than 24 hours at 24° C (75° F) ambient temperature.
- AX56L nonspillable lead-acid batteries are listed in the U.S. Department of Transportation (DOT) hazardous materials regulations but are excepted from these regulations since they meet all of the requirements found at 49 CFR 173.159(d) – NMFC # 60680 Class 65.
- AX56L nonspillable lead-acid batteries are excluded from the international hazardous materials (also known as “dangerous goods”) regulations.



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- When the AX56L is stored for extended periods (more than 90 days), the internal battery should be periodically charged to prevent degradation of battery performance. For proper battery maintenance, the AX56L should be connected to an AC power source every 120 days and allowed to charge for at least eight hours.
 - Before connecting or disconnecting batteries, disconnect all external power sources. Before performing maintenance or service, disconnect all external power sources.
 - Batteries that are fully discharged may require as much as 24 hours to fully recharge on external power, if fully recharged batteries run down too quickly, replace the lead-acid batteries.
 - If the batteries are faulty (i.e., cannot be charged) or disconnected, and AUX DC power is applied, the LCD will not turn on, but the battery and temperature LEDs will flash. The alarm may also sound. Even in this event, the unit will operate when AC power is connected.
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Warranty Information:

- Warranted to be free of manufacturing and workmanship defects for a period of one year from date of purchase.
 - Limited warranty covers repair or replacement of the unit at the discretion of CSAFE Global; customer abuse is not covered by the warranty.
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