AMSCO / Steris Warming Cabinet

Subject: Inspection of hinge pins on all AMSCO warming cabinets

Background. American Sterilizer Company (AMSCO) manufactured a number of single and double door solution warming cabinets used in DoD medical facilities. In addition, model DJ04-112-131-0000-0009 was procured as NSN 6530-01-125-3268 to support Central Materiel Services (CMS) operations in the DEPMEDS hospital.

Problem. During normal use at a TDA facility, the lower door bottom hinge pin came loose (unscrewed) from its attachment to the bottom of the door, causing the lower door to fall to the floor. The design of the hinge sytem uses the top hinge pin of the lower door as the lower hinge pin for the upper door. As the lower door fell, the upper door followed suit. Both doors fell off the warming cabinet at the same time. Fortunately, no one was hurt. Because of this unexpected incident, the organization contacted the USAMMA National Maintenance Point. It was noted that AMSCO, the OEM for the product had been purchased by Steris. We contacted Steris as the responsible organization for their solution.

Solution. Steris has responded to the problem with a corrective action plan, a service bulletin and a PM checklist. This pertinant information is attached as an appendix to this message. The information should be printed and incorporated into the service manual.

Procedure. All organizations in possession of this materiel should take action to inspect the hinge pins of any AMSCO warming cabinet and use the recommended thread-locking adhesive (Loctite® 242) to prevent the hinge pin from working loose.

POC on this matter is Mr. Wolfe DSN 343-4376, (301) 619-4376


Nylon
Washer
Hinge Pin
Bottom Hinge
Lower Door
MAY 2 2001

STERIS

SERVICE BULLETIN

Product: Amsco[7] Fifth Generation Warming Cabinets

Section: Patient Care

Date: June 1, 2001

Subject: Loose Hinge Pin

Situation: Warming cabinet hinge (pivot) pins may become loose.

Descriptive Cause:
During factory assembly of doors, Loctite 222 is applied to hinge pins. This allows the warming cabinet door swing to be easily changed in the field while providing minimal thread locking. Over time and frequent use, the Loctite may weaken and pins may become loose.

Corrective Action:
During routine inspection, when changing door swing or if door looseness is observed, check the condition of all the hinge pins. Remove pins and inspect for wear. Replace pins that are worn and apply Loctite 242 (stronger breaking strength than Loctite 222) per manufacturers instructions. If reusing pins, clean threads and apply Loctite 242. The use of Loctite 242 will still allow for door swing change on 5th generation units.

STERIS Part Numbers: **Hinge Pin---P452446-091 (Top and Bottom)**
Hinge Pin---P093910-957 (Middle: Double Door Only)
Loctite 242--R005300-554

For STERIS Service Support on this product call 1-800-333-8828

Fifth Generation Warming Cabinet

Preventative Maintenance Check List

Serial No. _____	Inspection Period:	1	2	3	4	5	6
	Date of Inspection:						
Control ID No. _____	P/M Performed By:						

P.M. Type: ☐ 1st Yr. Maint. ☐ Ann. Maint. (Labor) ☐ Ann. Maint. (P&L) ☐ Overtime

P.M. Freq.: ☐ Monthly ☐ Bi-Monthly ☐ Quarterly ☐ Other _____

		Min. Freq	1	2	3	4	5	6
1.0	**PREPARATION FOR PREVENTIVE MAINTENANCE**							
1.1	Discuss equipment with operators.	Each						
1.2	Follow appropriate safety procedures; Prepare unit for PM.	Each						
2.0	**DOOR ASSEMBLY (EACH DOOR ON A DUAL CABINET)**							
2.1	Check condition of door gasket for wear and tear. Replace if needed.	Each						
2.2	Verify that door switch makes when door is closed. Verify that acrylic button is in place. Replace if missing.	Each						
2.3	Verify that door(s) does not drift open once closed. Level unit if needed.	Each						
2.4	Lubricate door hinges with light oil.	1X/yr						
2.5	Verify that door hinge pins are secure. Use Loctite #242 if needed.	Each						
3.0	**CONTROL**							
3.1	Verify temperature display using calibrated digital thermometer.	1X/yr						
3.2	Verify proper operation of overtemperature control (light and buzzer).	Each						
3.3	Verify that the fan and heater shuts off when the door is opened.	Each						
3.4	Replace thermofuse(s).	1X/yr						
4.0	**FINAL CHECKOUT AND TEST**							
4.1	Clean dirt and lint from components, including fan and heaters. Check all wiring, terminals, and socket connections for damage or fraying.	Each						
4.2	Verify that unit has proper labels (caution, warning).	Each						
4.3	Reinstall any panel or cover removed. Check area to ensure removal of all materials used during inspection.	Each						
4.4	Check for missing shelf clips. Replace any that are missing.	Each						
4.5	Notify Customer that PM inspection is complete.	Each						

Key:

A = Adjusted
C = Cleaned
L = Lubricated
N = New (Replaced)
R = Rebuilt/Repaired
S = Setpoint Verified/Calibrated
T = Tested
X = Checked
N/A = Not Applicable
* = Numerical Input Required