

# TOOL AND MACHINERY GUIDE



402-253-2772

WEBSITE: WCWRAIL.COM

Title: EMD SD70ACE Cooling Fan Retention Hooks

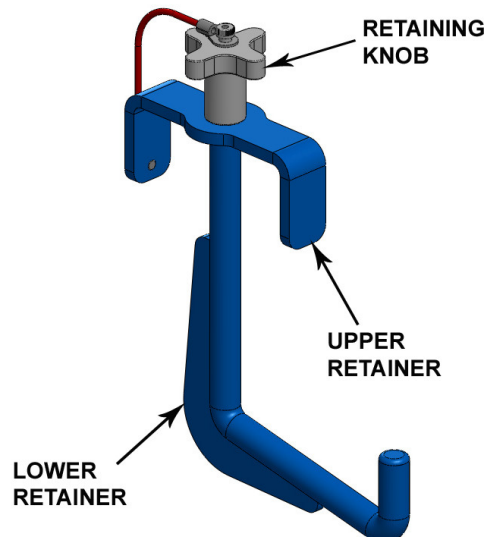
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## **SUBJECT: EMD SD70ACE COOLING FAN RETENTION HOOKS**

Capacity: These J-Hooks have a rated capacity of 400 pounds each. Four J-Hooks are required for cooling fan retention. The four hooks have a combined capacity of 1,600 pounds.



**FIGURE 1**

## **TECHNICAL SPECIFICATIONS:**

Available Through:

Wulf's Custom Welding

19102 So. 156<sup>th</sup> Street

Springfield, NE 68059

Tel: 402-253-2772

Fax: 402-253-9092

Website: wcwrail.com

Reference Part Number: Set Of 4 Each J-Hooks - 0409

Fixture Weight: Each J-Hook Weighs 5 Pounds

Base Construction Material: Alloy Steel Hook & Gusset

## **DESCRIPTION:**

**These hooks are designed to retain the lower section of the cooling fan used on SD70ACE locomotives during removal, transport, and installation. They have no other intended uses.**

**INSTRUCTIONS FOR USE:**

**COOLING FAN RETENTION**

**WARNING:** Ensure locomotive(s) is/are properly secured with hand brakes and/or chocks before attempting to perform any component repairs.

**WARNING:** Ensure Blue Flag protection is set in accordance with current operating rules before fouling any track or performing any type of repair work.

1. Inspect the J-Hooks for defects. Look for any signs of hook deformation or cracked or broken welds around the gusset. Make sure the retaining knob is in place and moving freely. Remove the fixture from service if any defects are found (Figure 1).



**FIGURE 2**

2. Remove all of the necessary fasteners and prepare the fan for removal from the locomotive.
3. Four each J-Hook retainers must be used to secure the cooling fan lower section. The J-hooks must be placed at equal (90 degree) intervals around the perimeter of the fan.
4. Loosen the J-Hook retaining knobs by turning them counter-clockwise. Turn the lower retainers 90 degrees and place them between two of the fan blades on the cooling fan upper section. The upper retainer must be placed across two of the upper section fan blades (Figure 1 & 2).
5. Turn the lower retainers 90 degrees and place them under one of the lower section fan blades (Figure 2).
6. Tighten the J-Hook retaining knobs by turning the clock-wise until the upper and lower retainers are secure against the fan blades (Figure 2).
7. Move the cooling fan to the desired location and remove the J-Hooks. Install the J-Hooks on the new cooling fan, and move it into position for installation.

8. When cooling fan installation is complete, remove the J-Hooks, inspect them, and place them into their normal place of storage.

**SAFETY PRECAUTIONS:**

WARNINGS: Noncompliance could cause injury to employees

CAUTIONS: Noncompliance could cause damage to equipment

NOTES: Pertinent information

1. WARNING: Wear personal protective equipment in accordance with all current Safety rules and requirements.
2. WARNING: Keep all parts of your body out from under any suspended load.
3. WARNING: Do not use the J-Hooks for any purpose other than retaining the lower portion of the EMD SD70ACE cooling fan.
4. WARNING: Four each J-Hooks must be installed to accomplish safe handling of the fan assembly.