



SERVICE BULLETIN

DATE: 12 JULY 1997

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MANDATORY

* Supersedes SB900-012, Dated 05 February 1996. Revised to correct typographical errors.

CONDENSER SCOOP INSTALLATION

1. PLANNING INFORMATION:

A. Aircraft Affected:

All McDonnell Douglas Helicopter Systems (MDHS) MD900 helicopters, serial number 900-0002 thru 900-0050 equipped with optional air conditioning system P/N 900P7250302-101.

B. Assembly/Components Affected by this Notice:

900PG250306-103, condenser scoop and 900PG250306-105, spacer components.

C. Reason:

To increase the efficiency of the MD900 air conditioning system. The condenser scoop installation directs additional air thru the condenser during forward flight. With the condenser scoop, the efficiency of the air conditioner is maximized.

D. Description:

This Bulletin contains a list of parts and instructions to install the condenser scoop air inlet duct to the fuselage boat-tail tub. The instructions in this Bulletin refer to maintenance practices contained in CSP-900RMM-2.

E. FAA Approval:

The technical design aspects of this Service Bulletin are FAA Approved.

F. Manpower:

Eight man hours plus two man hours for paint (if required).

G. Time of Compliance:

Within the next 100 hours of helicopter operation.

H. Material/Part Availability:

All references to consumable materials are listed in CSP-900RMM-2.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
CONDENSER SCOOP	900PG250306-103	1	MDHS
SPACER	900PG250306-105	1	MDHS
SCREW	MS27039C811	24	MDHS

I. Warranty Policy:

N/A.

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J. Weight and Balance:

MODIFICATION	WEIGHT (POUNDS)	LONGITUDINAL ARM (INCHES)	LATERAL ARM (INCHES)
CONDENSER SCOOP INSTALLATION	1.12	245.10	0.00

K. Electrical Load Data:

N/A.

L. Other Publications Affected:

CSP-900IPL-4, Illustrated Parts List
CSP-900RMM-2, Rotorcraft Maintenance Manual

2. ACCOMPLISHMENT INSTRUCTIONS:

CAUTION: The condenser scoop may be installed without evacuating the air conditioning system and without removing the condenser fan, condenser, condenser stand, and refrigerant lines. Limited movement of these components is required. Damage to the components could occur if raised too high.

- (1). Remove baggage floor panel A235 (Ref. Section 53-20-00).
- (2). Remove screws (MS27039C0810) and washers (AN960C8L) from condenser stand and screen (24 places, Ref. Figure 1).

NOTE: Screws will be replaced with longer screws (MS27039C0811). Retain washers for reinstallation.

- (3). Install condenser scoop and spacer through the bottom opening and rotate into position while condenser stand is raised.
- (4). Locate condenser scoop and spacer as shown in figure 1. Match drill **0.178-0.184 inch dia. (4.5-4.7 mm)** holes, #15 drill size (24 places).
- (5). Deburr holes in condenser scoop and spacer.
- (6). Install condenser scoop, spacer, air screen, and condenser stand in sequence as shown in Figure 1.

WARNING: Sealing Compound



- (7). Wet install screw (MS27039C0811) and washer (AN960C8L), (24 places) with sealing compound (C205).
- (8). Torque screws **12-15 in-lb(1.4-1.7 Nm)**.
- (9). Install baggage floor panel A235 (Ref. Section 53-20-00).

3. DISPOSITION OF PARTS REMOVED:

N/A.

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4. COMPLIANCE RECORD:

Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

5. POINTS OF CONTACT:

For further assistance, contact your local MDHS Field Service Representative. Refer to the "At Your Service" handbook for address and telephone numbers or contact the Field Service Department at MDHS, Mesa Arizona. Telephone: 1-800-388-3378 or (602) 891-6342. DATAFAX: (602) 891-6782.

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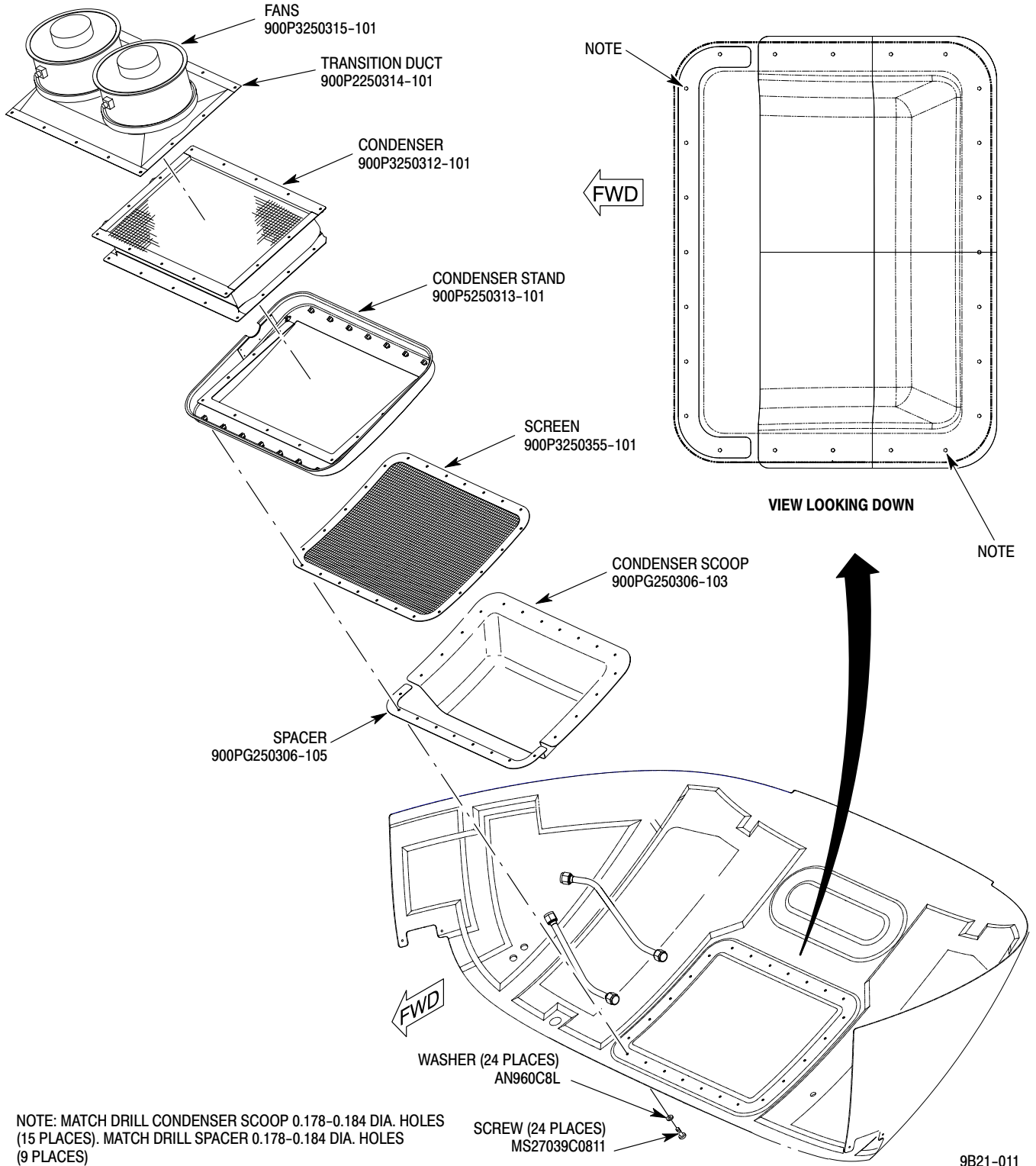


Figure 1. Condenser Scoop Installation

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