

Nomad SERVICE BULLETIN

AIR CONDITIONING — WINDSCREEN DEMIST — IMPROVED DEMIST OUTLETS (MOD N862)

1. PLANNING INFORMATION

A. Effectivity

(1) Aircraft affected:

- (a) **N22 Series** line sequence numbers 1 to 9, 11 to 29, 31, 33, 35, 37, 39 to 41, 43, 45, 47 to 59, 61, 63, 65 to 70, 82 to 88, 90 to 95, 97, 100, 102 to 114, 116, 118, 125, 126, 131 to 134, 137, 138, 141, 143 to 170.
- (b) **N24 Series** line sequence numbers 10, 30, 32, 34, 36, 38, 42, 44, 46, 60, 62, 64, 71 to 81, 89, 96, 98, 99, 101, 115, 117, 119 to 124, 127 to 130, 135, 136, 139, 140, 142.

(2) Spares affected:

None

B. Reason

To provide improved demist air distribution over the windscreen and de-misting to the curved side screens in conditions of excessive condensation.

Reason for Rev 1

Change of compliance requirements.

C. Description

Modification N862 provides improved LH and RH windscreen demist distributors and additional ducting to supply directionally adjustable LH and RH ventilation outlets attached to the side panel coaming below the curved side screens.

D. Compliance

This modification is mandatory for aircraft operated in conditions in which excessive cockpit condensation occurs on the inner surfaces of the cockpit transparencies.

E. Approval

The requirement detailed herein has been approved by a person authorised under Civil Aviation Regulation 35 and conforms to the type certification requirements.

F. Manpower

Approximately 10 man-hours

G. Materials, Price and Availability

Kits are available upon request from Nomad Customer Support – Boeing Aerospace Support – ASTA.

Page No	1	2	3	4	5	6	7	8
Rev No	1	0	0	1	0	0	0	0

12 Apr 2001

Rev 1 16 Apr 2002

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NMD-21-4

Page 1 of 8

Nomad

SERVICE BULLETIN

H. Tooling, Price and Availability

None required.

I. Weight and Balance

Negligible effect on weight and balance.

J. References

Maintenance Manual Chap 21

Illustrated Parts Catalogue Chap 21-20-00

K. Publications Affected

Maintenance Manual

Illustrated Parts Catalogue

2. ACCOMPLISHMENT INSTRUCTIONS

A. Preparation for Modification

- (1) Set BATTERY switch on the overhead console to OFF and ensure external power removed.
- (2) Remove instrument panel shrouds.
- (3) On the left-hand side, forward of the instrument panel, detach demist duct (1/N-74-299) at Demist Plate Valve and Demist Inlet (Ref Fig 1). Remove and discard duct and attaching clamps.
- (4) Remove the two machine screws (MS35207-263) and washers (AN960PD10) securing the Demister Tube Assembly to the forward diaphragm assembly (1/N-10-45). Remove Demister Tube Assembly from the aircraft.
- (5) De-rivet (4 off Pop rivets) the Demist Inlet (1/N-74-265) from the Demister Tube Assembly. Retain Demist Inlet and discard Demister Tube Assembly.
- (6) Repeat steps (3) to (5) for the right-hand components.

B. Installation of Mod N862

- (1) Drill four 2.50 mm (0.098 in) holes through existing pilot holes in each Demist Outlet Assembly (1/N-74-475/6) to match Demist Inlet (1/N-74-265). Wet assemble and seal all joints to ensure airtight connection using SILASTIC (RTV3145). Do not obstruct internal airflow passage. Rivet using (MS 20470AD3-4 or alternatives listed).
- (2) Locate Demist Outlet Assemblies (1/N-74-475/6) on the forward diaphragm, as shown in Figure 3, with line of outlet parallel to windscreen.

NOTE

The Demist Outlet Assemblies are handed, with 1/N-74-475 being the LH unit and 1/N-74-476 the RH unit.

12 Apr 2001

NMD-21-4

Page 2 of 8

Nomad

SERVICE BULLETIN

- (3) Mark and drill holes in diaphragm (1/N-10-45) to match anchor nuts on Demist Outlet Assemblies.

NOTE

Care should be taken to prevent swarf from drilling contaminating the controls and instrument connections and cabling below the diaphragm.

- (4) Finish coat (to FED STD 595, Matt Back) both Demist Outlet Assemblies prior to installation.
- (5) Attach Demist Outlet Assemblies (1/N-74-475/6) to forward diaphragm, using socket head cap screws (NAS13513H8) and washers (AN960-10).
- (6) Lockwire screw heads together (using NAS20995-F32), taking care not to apply excessive pressure against Demist Inlet.
- (7) Mark off and cut holes in the left and right side shroud panels as per Figure 4.
- (8) Install WEMAC air outlets.
- (9) Wrap new T-ducts (BWT18572-1) with foam adhesive tape (3M P/N 4314) and duct sealing tape (3M P/N 472 or 474) prior to installation.
- (10) Install with the branch nearest to the top of the main duct with the side duct facing outboard (Ref Fig 2).
- (11) Connect main ducts to Demist Plate Valves and Demist Inlets, and side ducts to the WEMAC units, securing with cable ties. Trim off excess. Take care to ensure the lateral duct sections do not obstruct the flying controls.

WARNING

AS THE AREA IN QUESTION CONTAINS PRIMARY FLYING CONTROLS,
ENSURE THAT IT IS CLEAN AND FREE FROM FOREIGN OBJECTS.

- (12) Refit instrument panel shrouds.
- (13) Prepare aircraft for service.

Nomad SERVICE BULLETIN

3. MATERIALS INFORMATION

A. Parts Required per Aircraft

(1) For Mod N862

New Parts - NMD-21-4 Kit				
Part No	Qty	Description	Old Part No	Instruction/Disposition
1/N-74-475	1	Windshield Demist Assembly - LH		
1/N-74-476	1	Windshield Demist Assembly - RH		
BWT18572-1	2	Tee piece - duct flex hose		
1747-2	2	Ventilation outlet (WEMAC) or		
10-0028-3	2	Ventilation outlet (Grimes) - Alt		
NAS1351-3H8	4	Cap screw, socket head		
4314	1 Roll	Foam adhesive tape (3M)		
New Parts - Operator/Local Source				
AN960-10	4	Washer		
MS20470AD3-4	8	Rivet		
CR2673-3-02	8	Rivet - Alt		
CCR274SS-3-02	8	Rivet - Alt		
	A/R	Lockwire, 0.032 in.		
472	A/R	Duct sealing tape (3M) or		
474	A/R	Duct sealing tape (3M) - Alt		
	6	Cable Tie - 6.5 in		
Parts removed				
Part No	Qty	Description	Old Part No	Instruction/Disposition
1/N-74-263	1	Demister tube assembly - LH		Discard
1/N-74-264	1	Demister tube assembly - RH		Discard
1/N-74-265	2	Demist Inlet		Retain
1P/N-74-299	2	Demist duct		Discard

B. Materials Required for Corrosion and Protection Treatments

None required

4. SPECIAL TOOLS AND EQUIPMENT

None required

5. RECORDING ACTION

Record compliance with Service Bulletin NMD-21-4 Rev 1 in the Airframe Log Book.

12 Apr 2001

Rev 1 14 Mar 2002

Nomad SERVICE BULLETIN

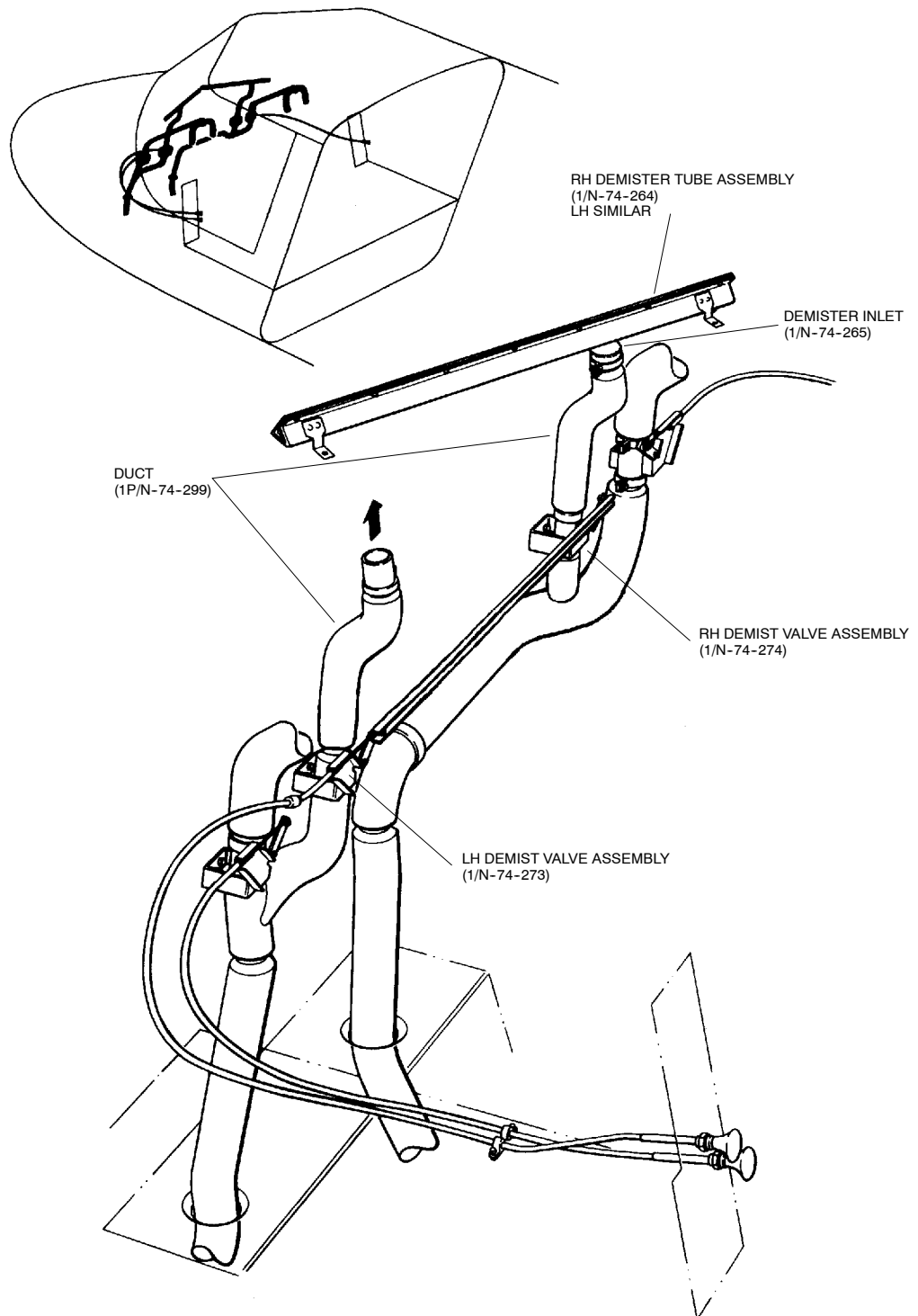


Figure 1 Basic Aircraft Demist Installation

12 Apr 2001

Nomad SERVICE BULLETIN

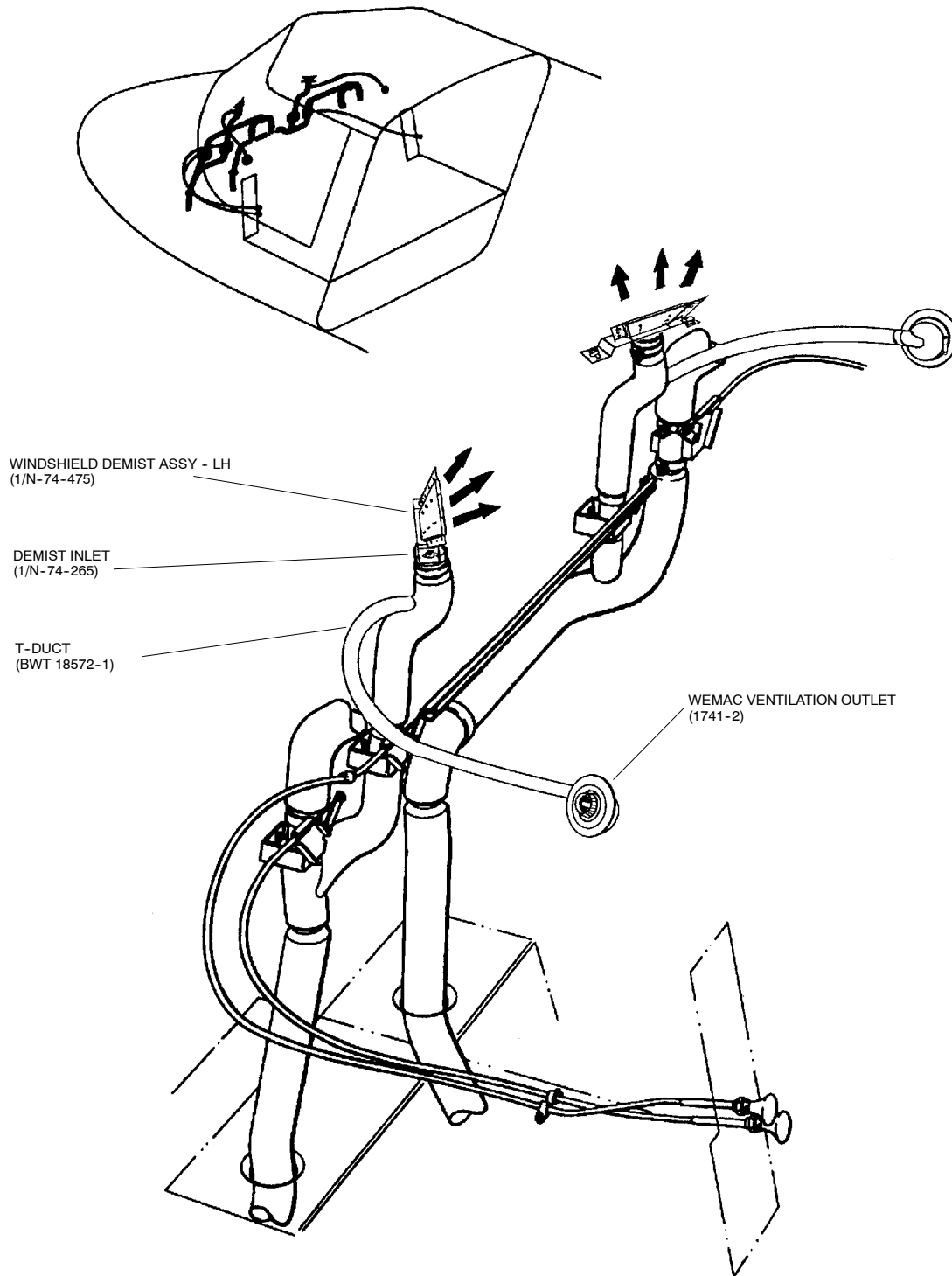
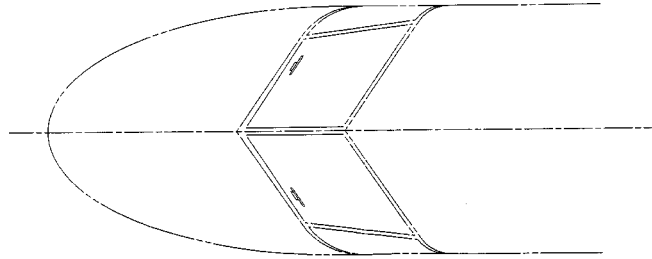


Figure 2 Aircraft Demist Installation Post-Mod N862

12 Apr 2001

Nomad SERVICE BULLETIN



NOTE: DEMIST OUTLETS SET PARALLEL TO WINDSCREEN

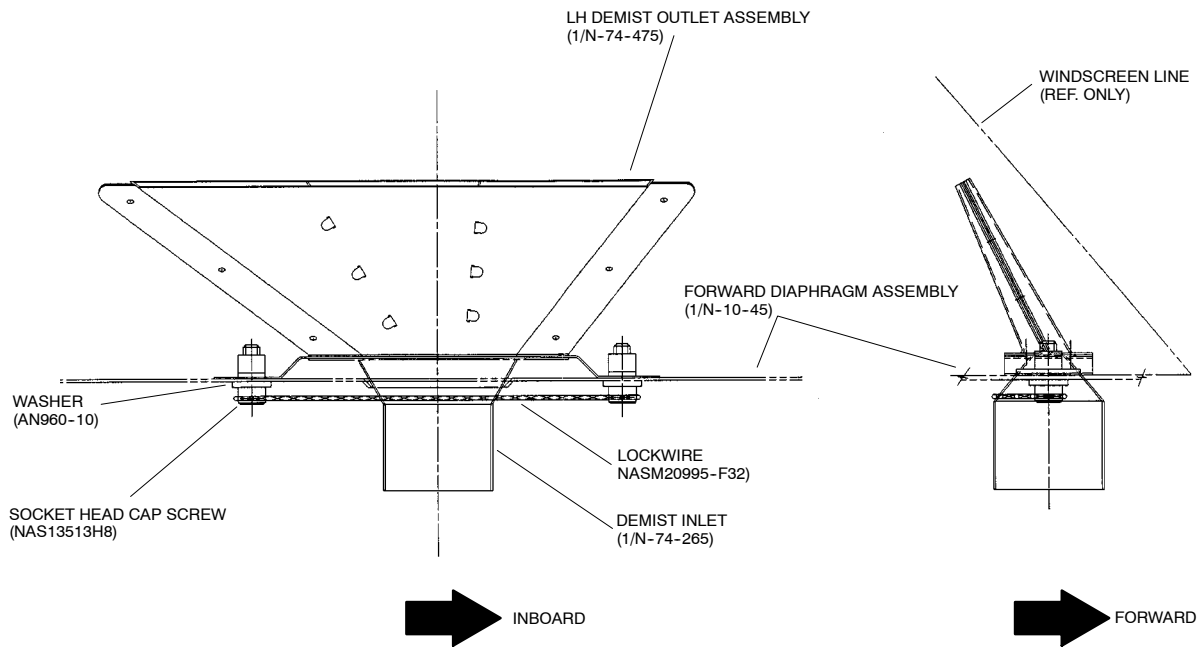


Figure 3 Mod N862 Demist Main Outlet installation

12 Apr 2001

Nomad SERVICE BULLETIN

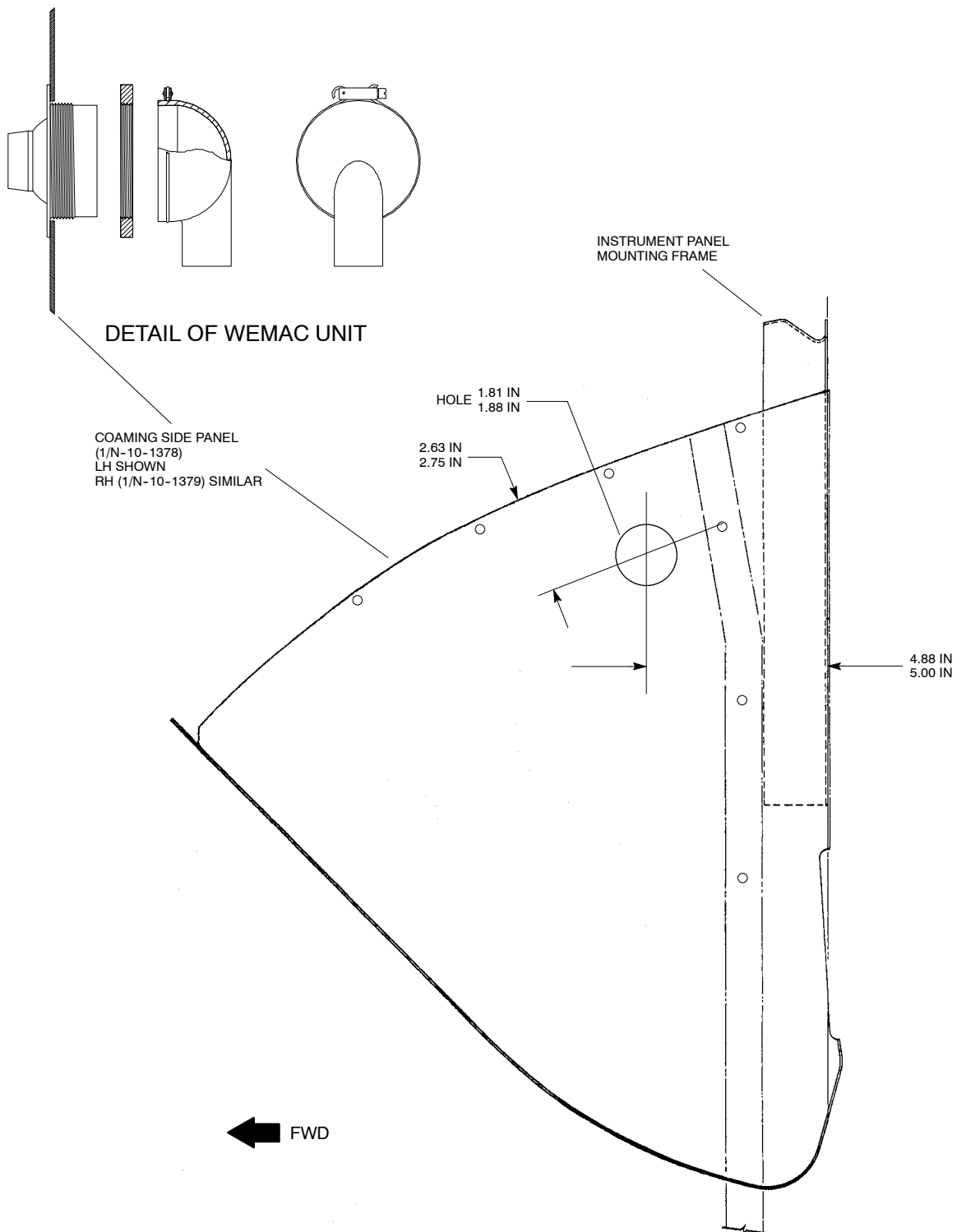


Figure 4 Location of Side Demist Outlets

12 Apr 2001