

# **Nomad**

## SERVICE BULLETIN

Reference No. 204

TRANSMITTAL SHEET FOR NOMAD SERVICE BULLETIN

SERVICE BULLETIN NO: NMD-52-9

DATED: 14 February, 1990

TITLE: Doors - Crew Door Modifications and Additional Signs and Markings required for Transport Category Operation (Mod N240 or N240-24)

REVISION NO:

DATE:

ACTION: Insert Service Bulletin NMD-52-9 into Service Bulletin publication and annotate index accordingly.

REASON: To satisfy CAA requirements for Transport Category Certification per Customer Options R280 (N22 Series) and R281 (N24 Series). Also required for FAR 135 Operations.

REMARKS: Compliance with this Service Bulletin is mandatory for Transport category operations.

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DOORS, CREW DOOR MODIFICATIONS AND ADDITIONAL SIGNS  
AND MARKINGS REQUIRED FOR TRANSPORT CATEGORY OPERATION  
(MODIFICATION N240 OR N240-24)

1. PLANNING INFORMATION

A. Effectivity

All Nomad N22 Series and N24 Series aircraft whose log books do not record the embodiment of Mod N240 or N240-24 respectively, or compliance with Service Bulletin NMD-52-9.

Aircraft Serial No. N22S-159 to N22S-165 inclusive have Mod N240 incorporated as basic.

B. Reason

To satisfy CAA requirements for Transport Category Certification per Customer Options R280 (N22 Series) and R281 (N24A Series). Also required for FAR 135 operations.

C. Description

Door closing handles and latch handle extensions are added to the crew doors. A door closed indicator is added to the RH crew door. Self illuminating exit signs are added above each crew door and an exit sign is painted on the rear face of Sta 132.00. For N24 Series aircraft, various external placards are revised.

D. Compliance

Recommended; for normal category operations.  
or  
Mandatory; for transport category operations.

E. Approval

The modification detailed herein has been approved pursuant to CAR 35 and conforms with type certification requirements.

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F. Manpower

Four manhours.

G. Material - Price and Availability

Material to be obtained from ASTA. Price and availability on request.

H. Tooling

Nil required.

J. Weight and Balance

Weight Change: +.27Kg (+.61lb); Index Units (MOMENT); +.81Kg mm  
( 1000 ) (+.071b in.)

K. References

MM - Maintenance Manual Chap 11-00-00, 11-30-00, 52-10-00  
IPC - Illustrated Parts Catalogue Chap 11-20-01, 11-30-01,  
52-10-01.  
FM - Flight Manual  
CO - Customer Option R280 (N22B, N22C), R281 (N24A).

L. Publications Affected

MM - Chap 11-00-00, 11-30-00, 52-10-00  
IPC - Chap 11-20-01, 11-30-01, 52-10-01.

2. ACCOMPLISHMENT INSTRUCTIONS

- A. On the RH crew door, position the door closing handle 1/N-10-1123 as shown in Figure 1. With the door closing handle as a template and using a No. 30 drill, drill five holes in the door frame. Deburr the holes and rivet the handle to the door frame with five AGS 2050-424BS rivets.
- B. Repeat A for the LH crew door.
- C. Close and lock the RH crew door. Position the locked position indicator 1/N-10-1122. (refer Figure 1). With the locked position indicator as a template, and using a No. 30 drill, drill two holes in the door frame. Deburr the holes and rivet the locked position indicator to the door frame with two AGS 2050-424BS rivets.

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D. Position the latch handle extension 2/N-10-1124 on the RH crew door latch handle and mark the position for the three holes. Using a 3 mm drill, drill the three holes as marked in the latch handle. Deburr the holes. Attach placard assembly RH 2/N-10-1125 (LH 1/N-10-1125) to the latch handle extension with three MS 24693S5 screws and attach the latch handle extension to the latch handle with three MS35206-217 screws.

E. Repeat D for the LH crew door.

**WARNING:** THE SELF ILLUMINATING EXIT SIGNS ARE SELF-POWERED (RADIO ACTIVE TRITIUM) SIGNS REQUIRING CAREFUL HANDLING TO PREVENT BREAKAGE. SHOULD A BREAKAGE OCCUR, THE AIRCRAFT MUST BE EVACUATED IMMEDIATELY FOR 30 MINUTES TO 1 HOUR DEPENDING ON THE QUANTITY OF GAS RELEASED. APPLY MAXIMUM VENTILATION TO THE AREA BY FANS, OPEN WINDOWS AND DOORS. REFER MAINTENANCE MANUAL CHAP 11-30-00 FOR FURTHER INFORMATION.

F. Using a No 5 drill, drill two holes in the brackets 1/N-00-293 to suit the self illuminating exit signs SRDL006. Apply a strip of double sided tape 4032 to the brackets as shown in Figure 1 and mount the exit signs to the brackets using washers AN960PD10, spring washers MS35338-43 and nuts MS35650-302.

G. Position the exit sign and bracket above the RH crew door centered about Sta 120.0 as shown in Figure 1. With the bracket as a template, and using a No. 30 drill, drill four holes in the door frame structure. Deburr the holes and rivet the bracket in position with four AGS 2050-424BS rivets.

H. Repeat G. for the LH crew door exit sign.

J. Treat any bare metal in the modified areas with Alodine 1200S, prime with corrosion resistant epoxy primer and touch up with polyurethane gloss finish to match the aircraft.

K. Close and lock the RH crew door. Using bright red paint colour No. 338.5302, paint the latch handle extension on the RH and the LH crew door and a .60 in wide band on the door locking tube for the RH crew door as shown in Figure 1.

L. Paint an exit sign on the rear face of Sta 132.00 as shown in Figure 2.

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M. For N24 series aircraft only. Refer to the N24 series IPC and fit the following labels unless already fitted:

(1) Chapter 11-20-01, Figure 1

INDEX NO.	PART NO.
2	1A/N-00-113
3	201A/N-00-1020
4	201B/N-00-1020
5	1/N-00-275
13	IT/N-00-113

(2) Chapter 11-30-01, Figure 1 Sheet 2

INDEX NO.	PART NO.
45	1Q/N-00-113
45A	1G/N-00-113
46	1/N-00-284

N. Gain access through the nose baggage compartment to the mod plates on the forward face of the frame at Sta 67.95 and perform the following strike action:

(1) N22 series aircraft

- (a) On mod record plate 1/N-10-520, strike No. 17.
- (b) On mod record plate 11/N-00-120, strike No. 65.

(2) N24 series aircraft

- (a) On mod record plate 101/N-10-1002, strike No. 10.
- (b) On mod record plate 101/N-00-1000, strike No. 44.

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### 3. MATERIALS INFORMATION

#### A. Parts required per Aircraft

<u>New P/N</u>	<u>Qty</u>	<u>Title</u>	<u>Old P/N</u>	<u>Instructions/ Disposition</u>
1/N-10-1122	1	Indicator, Locked Position		
1/N-10-1123	2	Handle, Door Closing		
2/N-10-1124	2	Extension, Latch Handle		
1/N-10-1125	1	Placard Assembly, LH		
2/N-10-1125	1	Placard Assembly, RH		
1/N-00-293	2	Bracket		
SRDL006	2	Sign, Self Illuminated		
MS24693S5	4	Screw		
MS35206-217	6	Screw		
AGS2050-424BS	20	Rivet, Pop		
MS35650-302	4	Nut, Plain		
MS35338-43	4	Washer, Spring		
AN960PD10	4	Washer, Plain		
4302	A/R	Tape, Double-sided .60 wide (Scotchmount)		

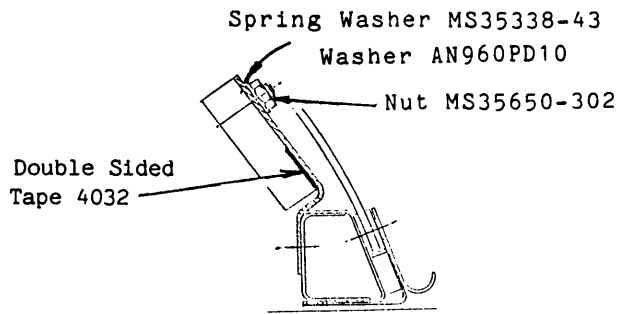
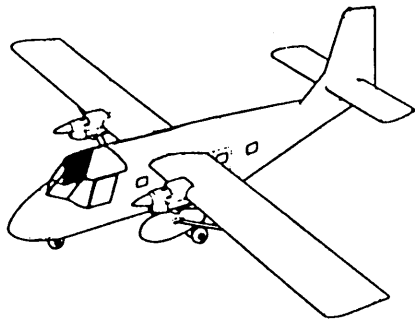
### 4. SPECIAL TOOLS AND EQUIPMENT

None.

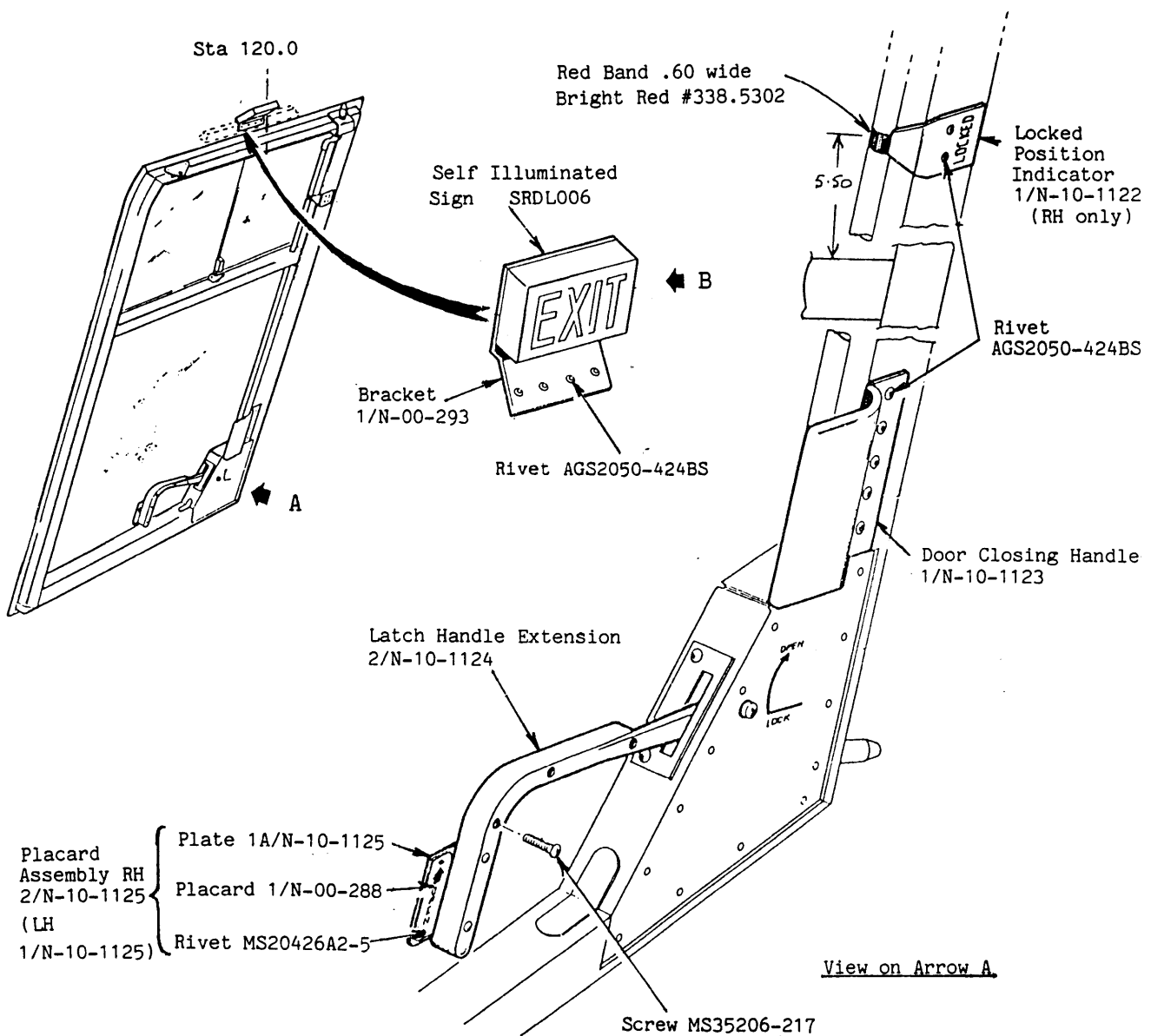
### 5. RECORDING ACTION

Record compliance with Service Bulletin NMD-52-9 in Airframe Log Book.

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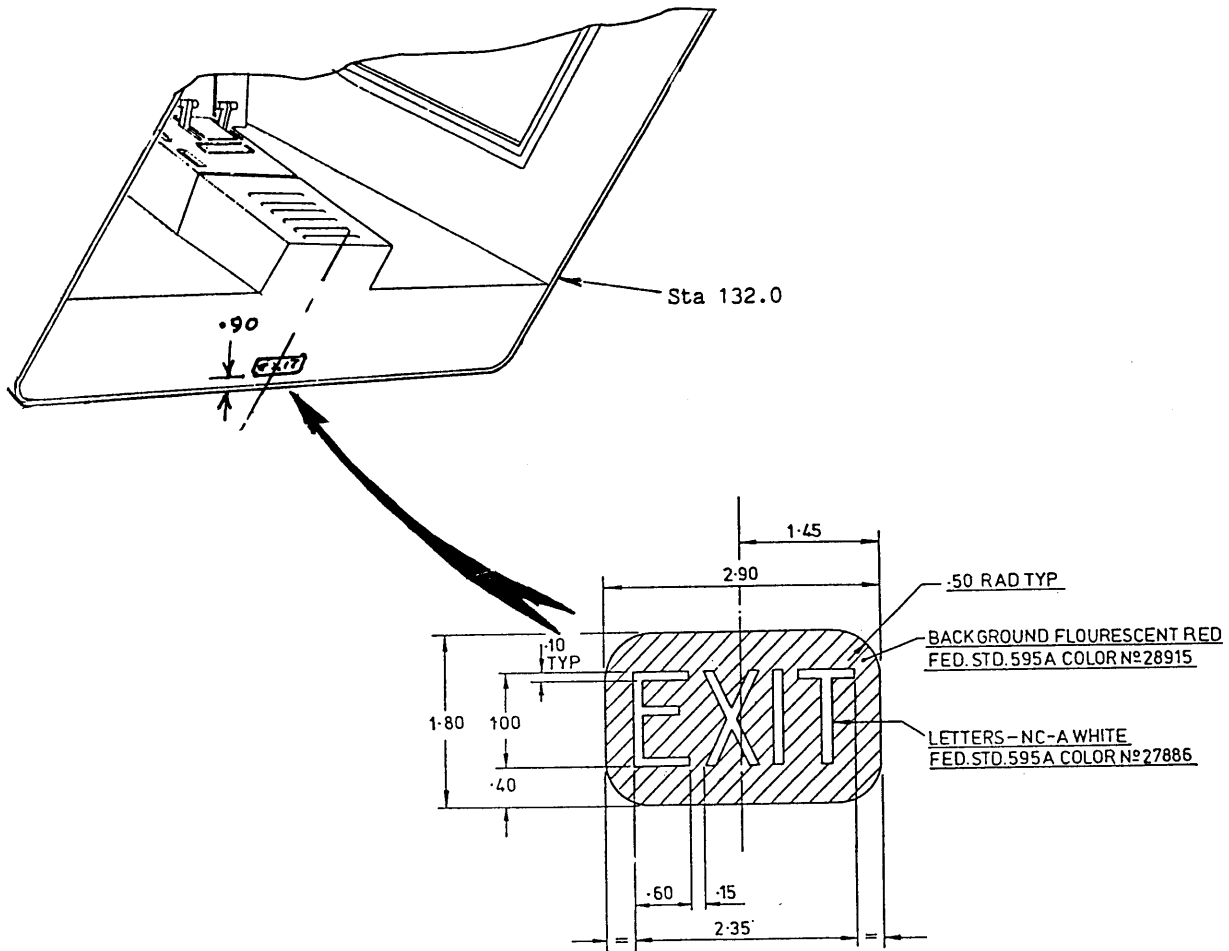


View on Arrow B



Crew Door Modifications and Fitting of EXIT Signs

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EXIT Sign on Rear Face of Sta 132.0

Figure 2