



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

HEATED NIPPLES - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove/install the heated nipples.
- B. There are two heated nipples in the water system:
 - The water fill nipple and the water overflow nipple.
- C. The heaters are installed on the water fill nipple and on the water overflow nipple. Their function is to keep these points heated to prevent clogging when the water freezes.
- D. The heated nipple includes a metal flanged tube with an electrical heating blanket around it.
- E. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
38-10-04-000-801-A	HEATED NIPPLES - REMOVAL	ACFT MODEL(S) EMB-145
38-10-04-400-801-A	HEATED NIPPLES - INSTALLATION	ACFT MODEL(S) EMB-145



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TASK 38-10-04-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. HEATED NIPPLES - REMOVAL

A. General

- (1) This task gives the procedure to remove the heated water fill nipple and the heated water overflow nipple.
- (2) To get access to the heated water fill nipple and to the heated water overflow nipple, you must remove the last double seat, the optional flight attendant seat (if applicable), the passenger-cabin floor lining, and the passenger-cabin floor panel from that area, and open the water service-panel door.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM TASK 25-21-01-000-801-A/400	-
AMM TASK 25-21-02-000-801-A/400	FLIGHT ATTENDANT SEAT - REMOVAL
AMM TASK 25-24-01-000-801-A/400	PASSENGER-CABIN FLOOR LINING - REMOVAL
S.B.145-38-0002	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193MR	Rear wing-to-fuselage fairing
262	262BF	Passenger cabin floor

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Under the passenger cabin floor



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I. Preparation

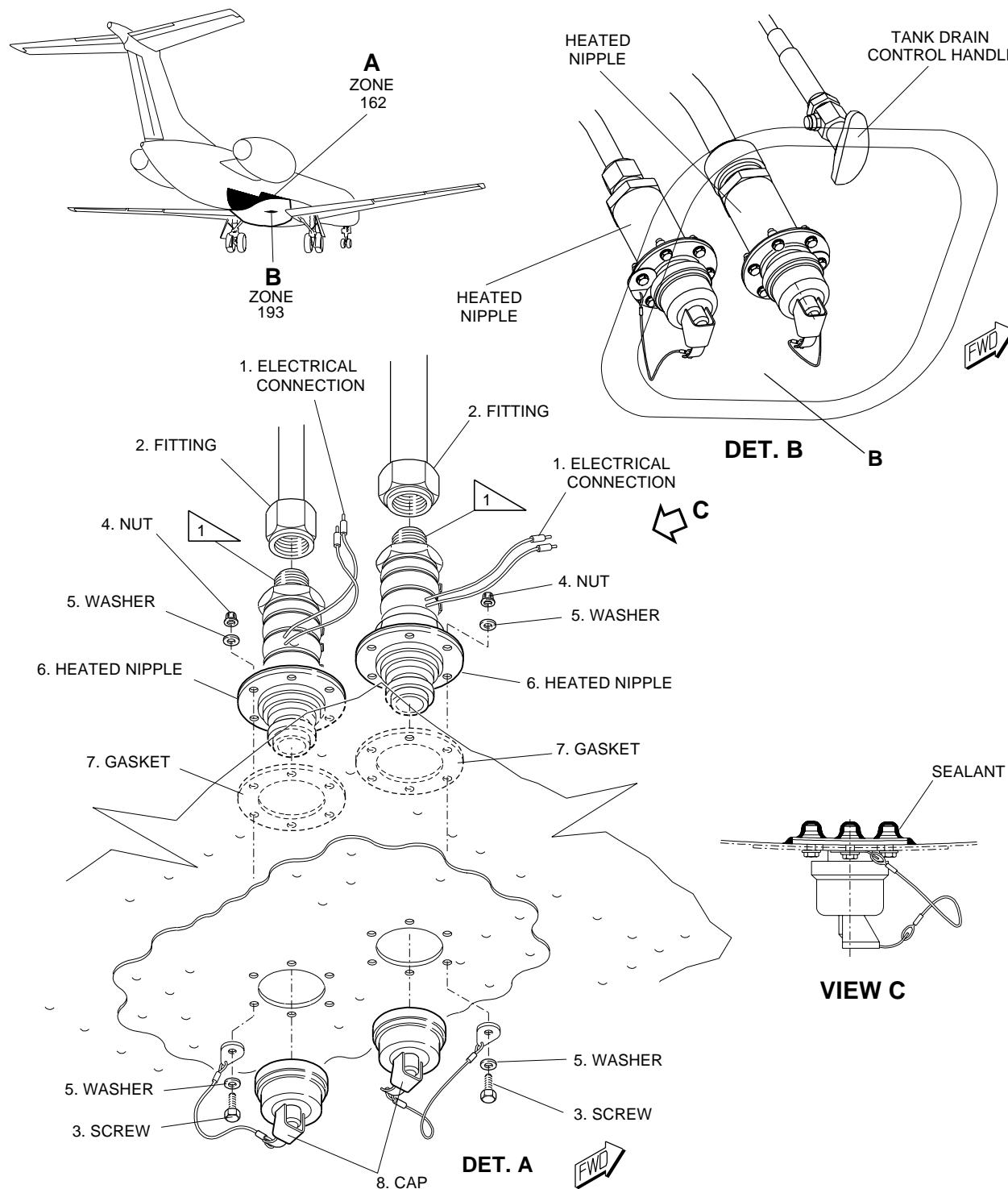
SUBTASK 841-010-A

- (1) Make sure the water tank is empty.
- (2) Remove the last double seat (AMM TASK 25-21-01-000-801-A/400).
- (3) If applicable, remove the optional flight attendant seat ([AMM TASK 25-21-02-000-801-A/400](#)).
- (4) Remove the passenger-cabin floor lining ([AMM TASK 25-24-01-000-801-A/400](#)).
- (5) Remove passenger-cabin floor panel 262BF (AMM MPP 06-41-02/100).
- (6) Open water service-panel door 193MR (AMM MPP 06-41-01/100).

J. Removal ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-010-A

- (1) Release the electrical connections (1).
- (2) Disconnect the heated nipple fittings (2).
- (3) Remove the sealant from the nuts (4), washers (5), and heated nipple bases.
- (4) On aircraft POST-MOD. [S.B.145-38-0002](#), remove the screw (9) and washers (10) from water service panel door 193NR.
- (5) Remove the screws (3), nuts (4), and washers (5) from the heated nipples (6).
- (6) Remove the caps (8) from the water fill nipple and the water overflow nipple.
- (7) Remove the heated nipples (6).
- (8) Remove and discard the gaskets (7).

EFFECTIVITY: PRE-MOD. S.B. 145-38-0002
Heated Nipples - Removal/Installation
Figure 401


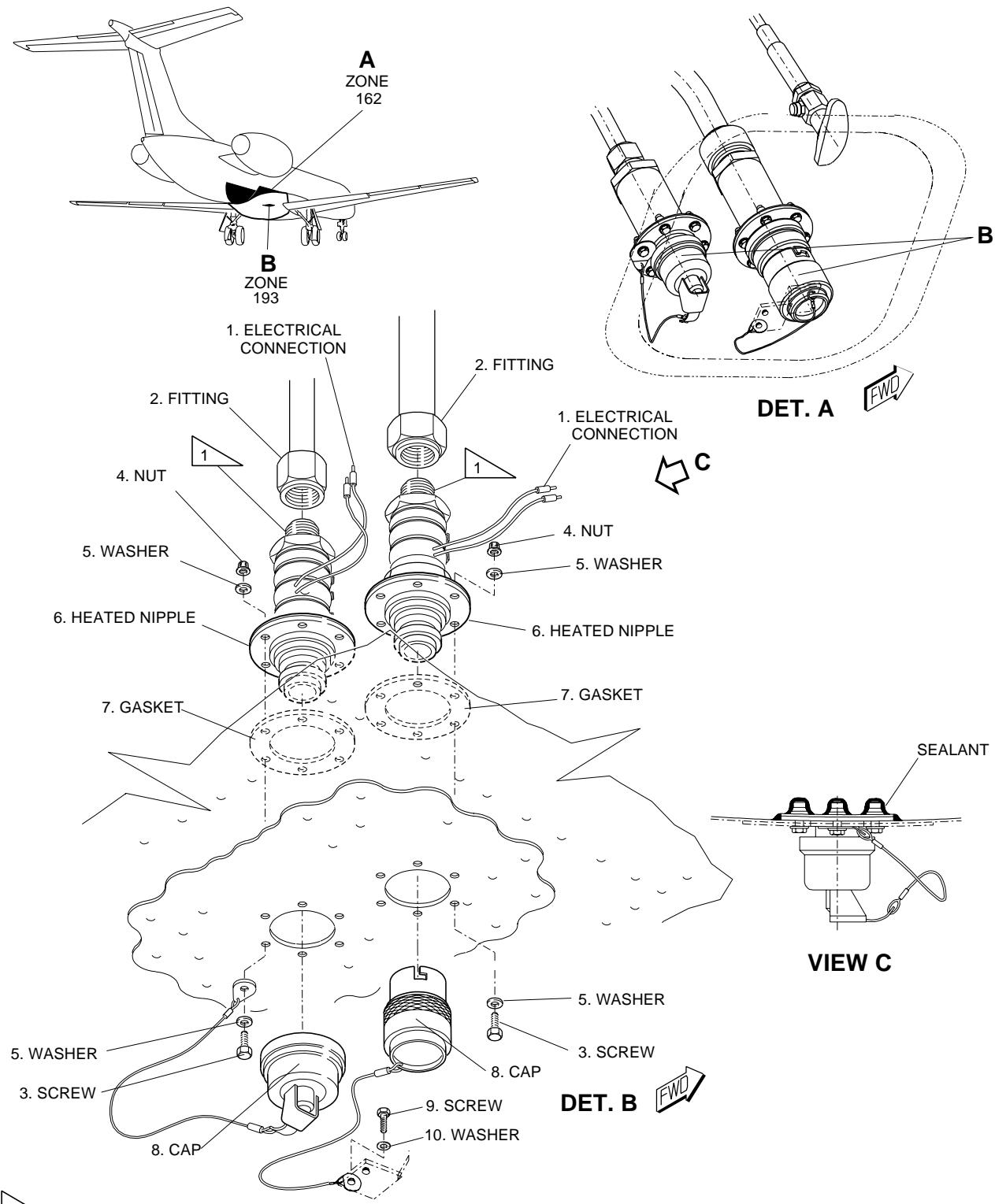
 **1** APPLY GREASE GGA80TF/B OR KRYTOX240AC OR KRYTOX240AZ ONLY TO THE FIRST TWO SCREW THREADS OF THE UPPER ENDS OF THE HEATED NIPPLES.

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EFFECTIVITY: POST-MOD. S.B. 145-38-0002

Heated Nipples - Removal/Installation

Figure 402



1. APPLY GREASE GGA80TF/B OR KRYTOX240AC OR KRYTOX240AZ ONLY
TO THE FIRST TWO SCREW THREADS OF THE UPPER ENDS OF THE HEATED NIPPLES.

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TASK 38-10-04-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. HEATED NIPPLES - INSTALLATION

A. General

- (1) This task gives the procedure to install the heated water fill nipple and the heated water overflow nipple.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM TASK 12-15-01-600-801-A/300	WATER TANK - FILLING
AMM TASK 25-21-01-400-801-A/400	-
AMM TASK 25-21-02-400-801-A/400	FLIGHT ATTENDANT SEAT - INSTALLATION
AMM TASK 25-24-01-400-801-A/400	PASSENGER-CABIN FLOOR LINING - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-
IPC 38-10-04	WATER FILL AND OVERFLOW NIPPLES
S.B.145-38-0002	-
SRM 51-20-01	-
WM 38-10-50	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193MR	Rear wing-to-fuselage fairing
262	262BF	Passenger cabin floor

D. Tools and Equipment

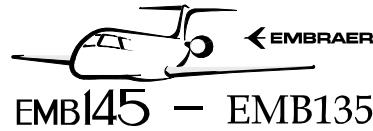
Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-38249	Sealant PR-812	AR
MEP08-017	Grease GGA80TF/B	AR



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G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Gasket	IPC 38-10-04	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Under the passenger cabin floor

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-010-A

- (1) Install new gaskets (7) in the heated nipples (6).

CAUTION: BEFORE YOU CONNECT THE HEATED NIPPLES TO THE CAPS AND TO THE FITTINGS, APPLY GREASE GGA80TF/B ONLY TO THE FIRST TWO SCREW THREADS OF THE TWO ENDS OF THE HEATED NIPPLES.

- (2) Put the heated nipples (6) and the cap (8) attachment cables in position, and attach the heated nipples with the screws (3), nuts (4), and washers (5).
- (3) Apply the sealant to the nuts (4), washers (5), and heated nipple bases (SRM 51-20-01).
- (4) Connect the heated nipple fittings (2).
- (5) Do the electrical connections (1) (WM 38-10-50).
- (6) On aircraft POST-MOD. [S.B.145-38-0002](#), install the washers (10) and screw (9) in water service panel door 193NR.

J. Follow-on

SUBTASK 842-010-A

- (1) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (2) Install passenger-cabin floor panel 262BF (AMM MPP 06-41-02/100).
- (3) Install the passenger-cabin floor lining ([AMM TASK 25-24-01-400-801-A/400](#)).
- (4) If applicable, install the optional flight attendant seat ([AMM TASK 25-21-02-400-801-A/400](#)).
- (5) Install the last double seat (AMM TASK 25-21-01-400-801-A/400).
- (6) Fill the water tank ([AMM TASK 12-15-01-600-801-A/300](#)).



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- (7) Install the heated nipple caps (8).
- (8) Close water service-panel door 193MR (AMM MPP 06-41-01/100).