



AIRCRAFT MAINTENANCE MANUAL

WATER-TANK FILL AND OVERFLOW LINES - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

- A. This section gives the procedures for the removal/installation of the water-tank fill and overflow lines.
- B. 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 |
|--------------------|---|--------------------------|
| 38-10-07-000-802-A | WATER-TANK FILL AND OVERFLOW LINES - REMOVAL | ACFT MODEL(S) EMB-135 |
| 38-10-07-400-802-A | WATER-TANK FILL AND OVERFLOW LINES - INSTALLATION | ACFT MODEL(S) EMB-135 |



AIRCRAFT
MAINTENANCE MANUAL

TASK 38-10-07-000-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

2. WATER-TANK FILL AND OVERFLOW LINES - REMOVAL

A. General

- (1) This task gives the procedure for the removal of the water-tank fill and overflow lines.
- (2) To get access to the water-tank fill and overflow lines, you must remove:
 - the baggage compartment floor lining and the baggage compartment floor panel on the right hand near the passenger cabin/baggage compartment partition.
 - the plumbing access panels at the bottom of the washbasin cabinet and the passenger cabin/baggage compartment partition.
 - the toilet shroud assembly and the toilet unit.
 - the amenity dispenser assembly.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|--|
| AMM MPP 06-41-02/100 | - |
| AMM TASK 25-26-09-000-801-A/400 | - |
| AMM TASK 25-40-01-000-801-A/400 | - |
| AMM TASK 25-40-04-000-801-A/400 | TOILET SHROUD ASSEMBLY - REMOVAL |
| AMM TASK 25-51-04-000-801-A/400 | BAGGAGE-COMPARTMENT FLOOR LINING - REMOVAL |
| AMM TASK 38-32-01-000-801-A/400 | TOILET UNIT - REMOVAL |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|---------------------------|
| 262 | 262BF | Passenger cabin floor |
| 272 | 272AF | Baggage compartment floor |

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

H. Persons Recommended

| QTY | FUNCTION | PLACE |
|-----|---------------|----------|
| 1 | Does the task | Lavatory |

I. Preparation

SUBTASK 841-018-A

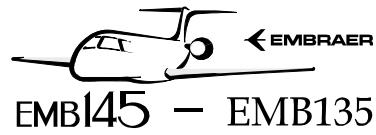
- (1) Make sure the water tank is empty.
- (2) Preparation for the removal of the water-tank fill and overflow lines lower section:
 - (a) Remove the baggage compartment floor lining ([AMM TASK 25-51-04-000-801-A/400](#)).
 - (b) Remove RH AFT Stowage Bin Stowage (AMM TASK 25-26-09-000-801-A/400).
 - (c) Remove baggage compartment floor 272AF (AMM MPP 06-41-02/100) and cabin floor panel 262BF (AMM MPP 06-41-02/100).
- (3) Preparation for the removal of the water-tank fill and overflow lines mid section:
 - (a) Remove the plumbing access panels at the bottom of the washbasin cabinet and the passenger cabin/baggage compartment partition (AMM TASK 25-40-01-000-801-A/400).
 - (b) Remove the toilet shroud assembly ([AMM TASK 25-40-04-000-801-A/400](#)).
 - (c) Remove the toilet unit ([AMM TASK 38-32-01-000-801-A/400](#)).
- (4) Preparation for the removal of the water-tank fill and overflow lines upper section:
 - (a) Remove the plumbing access panel at the bottom of the washbasin cabinet (AMM TASK 25-40-01-000-801-A/400).
 - (b) Remove the amenity dispenser assembly (AMM TASK 25-40-01-000-801-A/400).
 - (c) Open the fire extinguisher door (AMM TASK 25-40-01-000-801-A/400).

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

SUBTASK 020-019-A

- (1) Removal of the water-tank fill and overflow lines lower section:
 - (a) Get access through the baggage compartment floor and loosen the nuts of the fill line lower section (16) and overflow line lower section 2 (17) connections with the heated nipples (Ref.).
 - (b) Refer to DET. C and remove the screw (1), washer (2), spacer (3), and clamp (4).
 - (c) Loosen the nuts of the fill line lower section (16) and overflow line lower section 1 (18) connections with the elbows (13).
 - (d) Remove the water-tank fill line lower section (16).

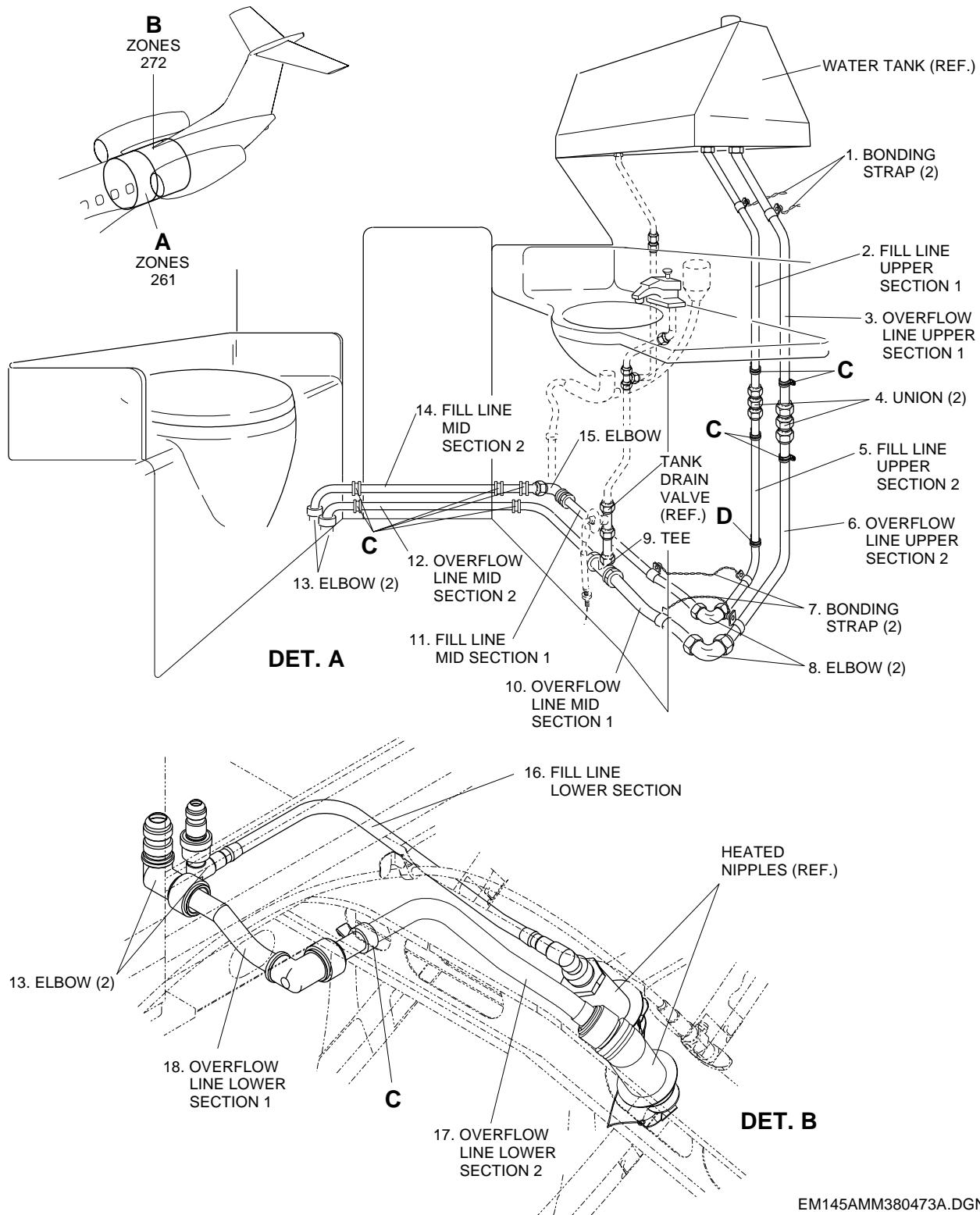
- (e) Loosen the nut of the overflow line lower section 2 (17) connection with the overflow line lower section 1 (18).
 - (f) Remove the water-tank overflow line lower sections 1 (18) and 2 (17).
- (2) Removal of the water-tank fill and overflow lines mid section:
- (a) Loosen the nuts of the fill (14) and overflow (12) line mid section 2 connections with the elbows (13).
 - (b) Refer to DET. C and remove the screws (1), washers (2), spacers (3), and clamps (4) from all attachment points.
 - (c) Loosen the nut of the fill line mid section 2 (14) connection with the elbow (15).
 - (d) Remove the fill line mid section 2 (14).
 - (e) Loosen the nut of the overflow line mid section 2 (12) connection with the tee (9).
 - (f) Remove the overflow line mid section 2 (12).
 - (g) Loosen the nut of the elbow (15) connection with the fill line mid section 1 (11) and remove the elbow (15).
 - (h) Loosen the nuts of the tee (9) connections with the tank-drain valve (Ref.) and the overflow line mid section 1 (10) and remove the tee (9).
 - (i) Loosen the screws and nuts and remove the bonding straps (7).
 - (j) Loosen the nuts of the fill (11) and overflow (10) line mid section 1 connections with the elbows (8).
 - (k) Remove the fill (11) and overflow (10) lines mid section 1.
- (3) Removal of the water-tank fill and overflow lines upper section:
- (a) Loosen the nuts of the fill (5) and overflow (6) line upper section 2 connections with the elbows (8).
 - (b) Remove the elbows (8).
 - (c) Refer to DET. D and remove the screw (5), washer (6), clamp (9), and clip nut (7) from the bracket (8).
 - (d) Get access through the fire extinguisher door and remove the screws (1), washers (2), spacers (3), and clamps (4) from all attachment points (DET. C).
 - (e) Loosen the nuts of the fill (5) and overflow (6) line upper section 2 connections with the unions (4).
 - (f) Remove the fill (5) and overflow (6) lines upper section 2.
 - (g) Loosen the nuts of the fill (2) and overflow (3) line upper section 1 connections with the unions (4).
 - (h) Remove the unions (4).



EMB145 - EMB135

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MAINTENANCE MANUAL

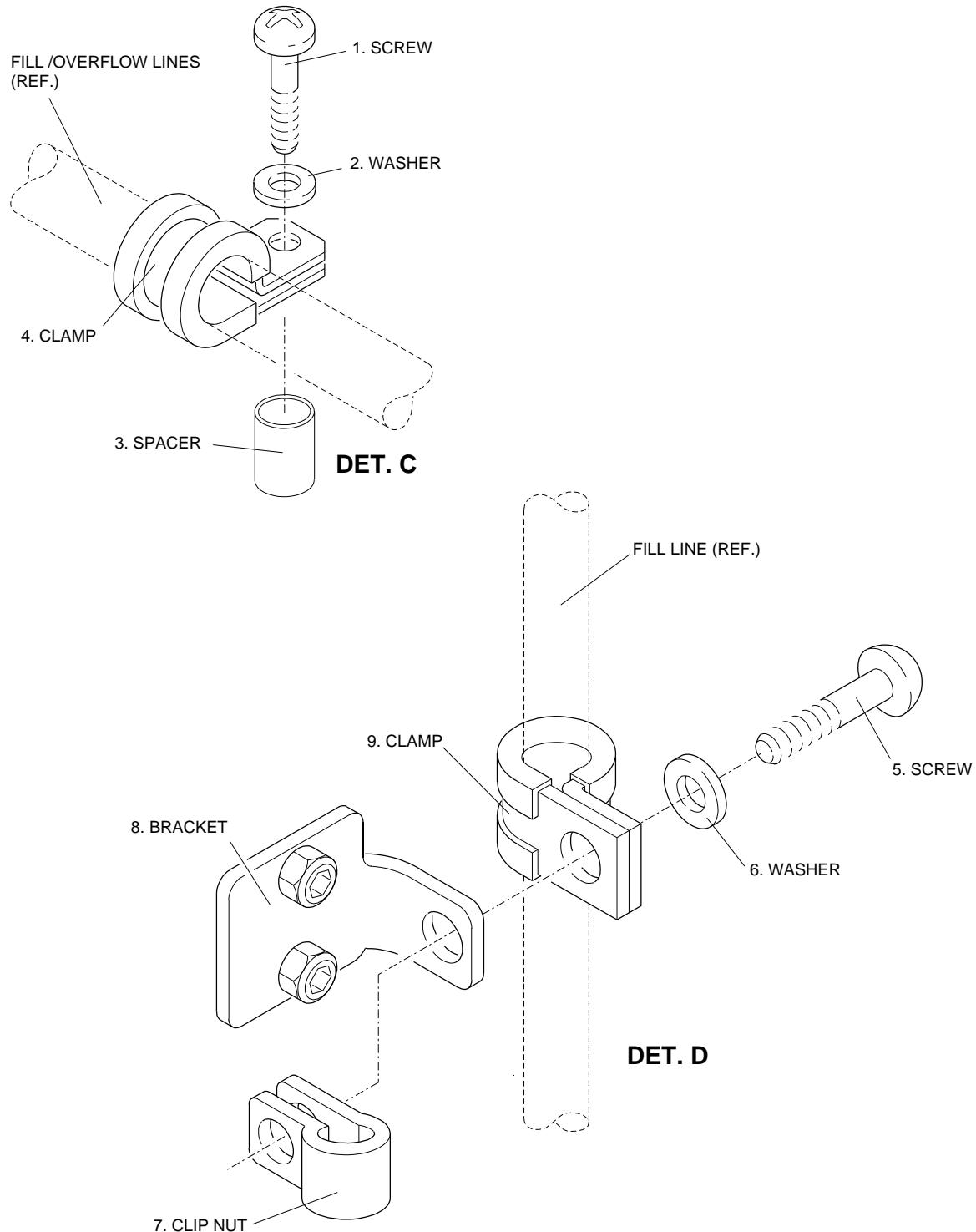
- (i) Loosen the screws and nuts and remove the bonding straps (1).
- (j) Loosen the nuts of the fill (2) and overflow (3) line upper section 1 connections with the water tank (Ref.).
- (k) Remove the fill (2) and overflow (3) lines upper section 1.

EFFECTIVITY: 145/339
Water-Tank Fill and Overflow Lines - Removal/Installation
Figure 401 - Sheet 1

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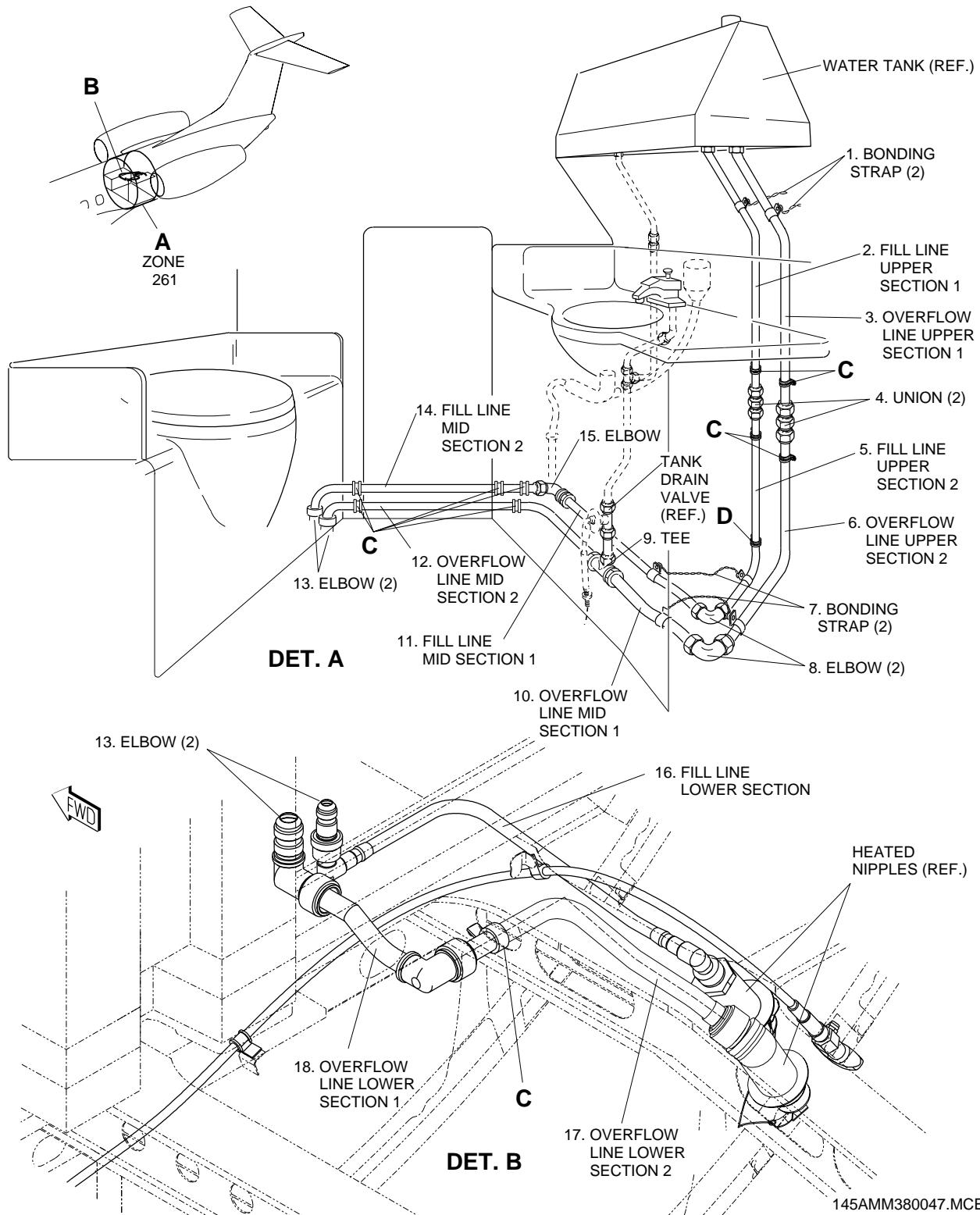
EFFECTIVITY: 145/339

Water-Tank Fill and Overflow Lines - Removal/Installation

Figure 401 - Sheet 2



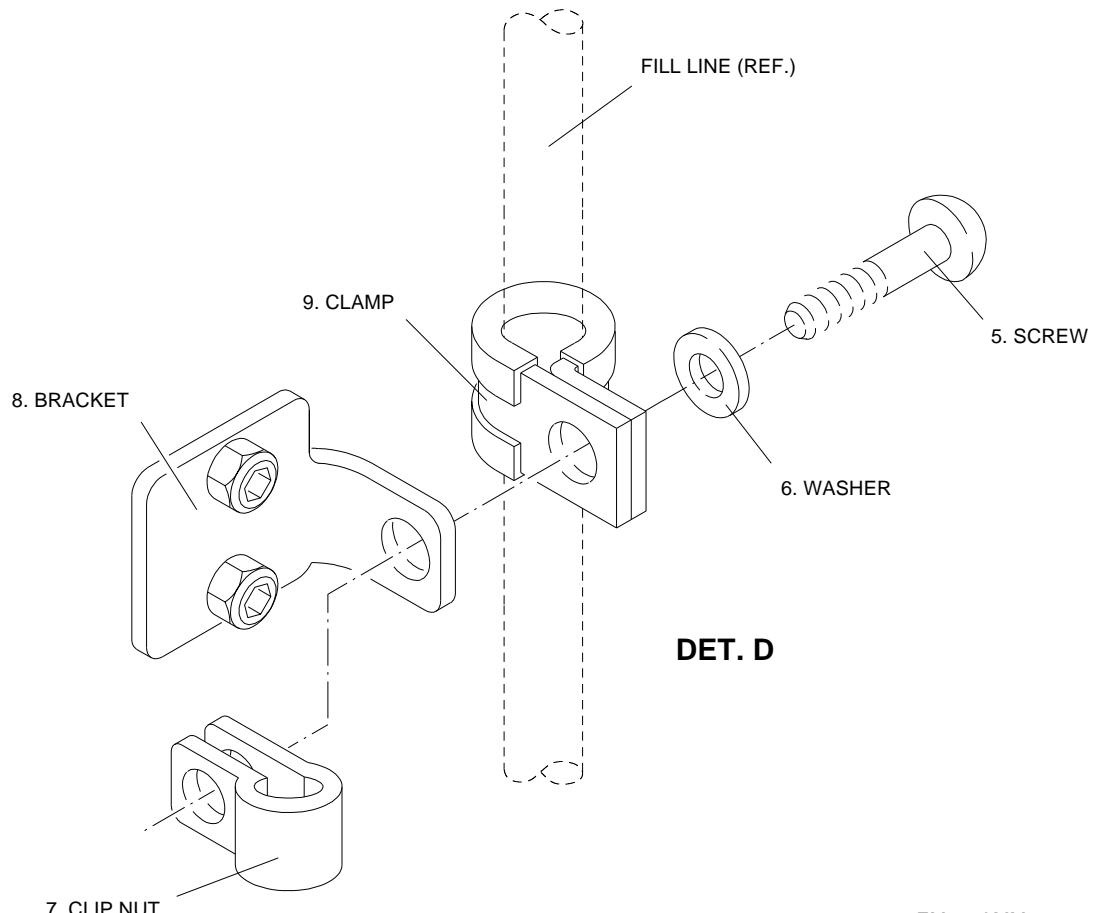
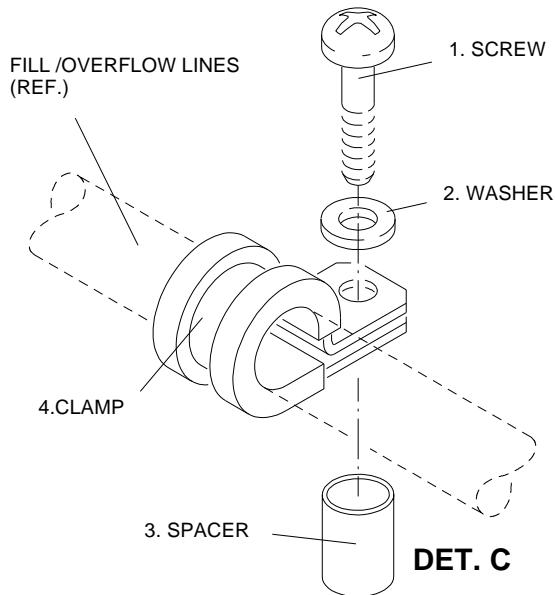
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EFFECTIVITY: 340/800
Water-Tank Fill and Overflow Lines - Removal/Installation
Figure 402 - Sheet 1


EFFECTIVITY: 340/800

Water-Tank Fill and Overflow Lines - Removal/Installation

Figure 402 - Sheet 2



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TASK 38-10-07-400-802-A
EFFECTIVITY: ACFT MODEL(S) EMB-135
3. WATER-TANK FILL AND OVERFLOW LINES - INSTALLATION
A. General

- (1) This task gives the procedure for the installation of the water-tank fill and overflow lines.

B. References

| <i>REFERENCE</i> | <i>DESIGNATION</i> |
|--|---|
| AMM MPP 06-41-02/100 | - |
| AMM TASK 12-15-01-600-801-A/300 | WATER TANK - FILLING |
| AMM TASK 25-26-09-400-801-A/400 | - |
| AMM TASK 25-40-01-400-801-A/400 | - |
| AMM TASK 25-40-04-400-801-A/400 | TOILET SHROUD ASSEMBLY - INSTALLATION |
| AMM TASK 25-51-04-400-801-A/400 | BAGGAGE-COMPARTMENT FLOOR LINING - INSTALLATION |
| AMM TASK 28-41-00-200-801-A/600 | - |
| AMM TASK 38-32-01-400-801-A/400 | TOILET UNIT - INSTALLATION |

C. Zones and Accesses

| <i>ZONE</i> | <i>PANEL/DOOR</i> | <i>LOCATION</i> |
|-------------|-------------------|---------------------------|
| 262 | 262BF | Passenger cabin floor |
| 272 | 272AF | Baggage compartment 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

| <i>QTY</i> | <i>FUNCTION</i> | <i>PLACE</i> |
|------------|-----------------|--------------|
| 1 | Does the task | Lavatory |

I. Installation (Figure 401) (Figure 402)
SUBTASK 420-019-A

- (1) Installation of the water-tank fill and overflow lines upper section:

- (a) Put the fill (2) and overflow (3) lines upper section 1 in the installation position.
 - (b) Tighten the nuts of the fill (2) and overflow (3) line upper section 1 connections with the water tank (Ref.).
 - (c) Install the bonding straps (1) and tighten the screws and nuts.
 - (d) Install the unions (4).
 - (e) Tighten the nuts of the fill (2) and overflow (3) line upper section 1 connections with the unions (4).
 - (f) Put the fill (5) and overflow (6) lines upper section 2 in the installation position.
 - (g) Tighten the nuts of the fill (5) and overflow (6) line upper section 2 connections with the unions (4).
 - (h) Get access through the fire extinguisher door and install the screws (1), washers (2), spacers (3), and clamps (4) in all attachment points (DET. C).
 - (i) Refer to DET. D and install the screw (5), washer (6), clamp (9), and clip nut (7) in the bracket (8).
 - (j) Install the elbows (8).
 - (k) Tighten the nuts of the fill (5) and overflow (6) line upper section 2 connections with the elbows (8).
- (2) Installation of the water-tank fill and overflow lines mid section:
- (a) Put the fill (11) and overflow (10) lines mid section 1 in the installation position.
 - (b) Tighten the nuts of the fill (11) and overflow (10) line mid section 1 connections with the elbows (8).
 - (c) Install the bonding straps (7) and tighten the screws and nuts.
 - (d) Install the tee (9) and tighten the nuts of the tee (9) connections with the tank-drain valve (Ref.) and the overflow line mid section 1 (10).
 - (e) Install the elbow (15) and tighten the nut of the elbow (15) connection with the fill line mid section 1 (11).
 - (f) Put the overflow line mid section 2 (12) in the installation position.
 - (g) Tighten the nut of the overflow line mid section 2 (12) connection with the tee (9).
 - (h) Put the fill line mid section 2 (14) in the installation position.
 - (i) Tighten the nut of the fill line mid section 2 (14) connection with the elbow (15).
 - (j) Refer to DET. C and install the screws (1), washers (2), spacers (3), and clamps (4) in all attachment points.
 - (k) Tighten the nuts of the fill (14) and overflow (12) line mid section 2 connections with the elbows (13).

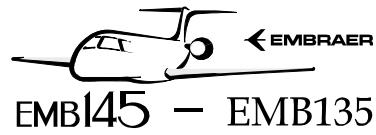
- (3) Installation of the water-tank fill and overflow lines lower section:
- Put the water-tank fill line lower section (16), and overflow line lower sections 1 (18) and 2 (17) in the installation position.
 - Tighten the nut of the overflow line lower section 2 (17) connection with the overflow line lower section 1 (18).
 - Tighten the nuts of the fill line lower section (16) and overflow line lower section 1 (18) connections with the elbows (13).
 - Tighten the nuts of the fill line lower section (16) and overflow line lower section 2 (17) connections with the heated nipples (Ref.).
 - Refer to DET. C and install the screw (1), washer (2), spacer (3), and clamp (4).

J. Follow-on

SUBTASK 842-018-A

- Fill the water tank ([AMM TASK 12-15-01-600-801-A/300](#)).
- Visually inspect the water-tank fill and overflow lines for leakage.
- 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).
- Follow-on for the installation of the water-tank fill and overflow lines lower section:
 - Install baggage compartment floor 272AF (AMM MPP 06-41-02/100) and cabin floor panel 262BF (AMM MPP 06-41-02/100).
 - Install RH AFT Stowage Bin Stowage (AMM TASK 25-26-09-400-801-A/400).
 - Install the baggage compartment floor lining ([AMM TASK 25-51-04-400-801-A/400](#)).
- Follow-on for the installation of the water-tank fill and overflow lines mid section:
 - Install the toilet unit ([AMM TASK 38-32-01-400-801-A/400](#)).
 - Install the plumbing access panels at the bottom of the washbasin cabinet and the passenger cabin/baggage compartment partition (AMM TASK 25-40-01-400-801-A/400).
 - Install the toilet shroud assembly ([AMM TASK 25-40-04-400-801-A/400](#)).
- Follow-on for the installation of the water-tank fill and overflow lines upper section:
 - Install the plumbing access panel at the bottom of the washbasin cabinet (AMM TASK 25-40-01-400-801-A/400).
 - Install the amenity dispenser assembly (AMM TASK 25-40-01-400-801-A/400).



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- (c) Close the fire extinguisher door (AMM TASK 25-40-01-400-801-A/400).

