



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

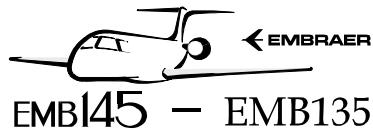
TOILET UNIT - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to clean the toilet unit and reduce odor problems.
- 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
38-32-01-100-801-A	TOILET UNIT - CLEANING	ALL



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TASK 38-32-01-100-801-A

EFFECTIVITY: ALL

2. TOILET UNIT - CLEANING

A. General

- WARNING:**
- PREVENT CONTACT WITH THE LAVATORY FLUIDS DURING MAINTENANCE OR SERVICE IN THE LAVATORY AREA. WASTE WATER CAN GET ON YOUR BODY AND CAUSE AN INFECTION.
 - OBEY ALL THE SAFETY PRECAUTIONS AND REGULATIONS WHEN YOU USE CHEMICAL COMPOUNDS. IF TOILET SYSTEM CLEANER GET YOUR BODY, FLUSH YOUR EYES, MOUTH OR SKIN WITH WATER AND GET MEDICAL AID. THE TOILET SYSTEM CLEANER IS AN ACID AND WILL CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.
 - **PUT ON SAFETY GOGGLES.**
 - **PUT ON SAFETY GLOVES.**
 - **PUT ON SAFETY CLOTHES.**

(1) This task gives the procedures for the cleaning of the toilet unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 20-30-06/200	- MAINTENANCE PRACTICES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
162	272AR	Rear right side of the fuselage bottom

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 021	Cart, Lavatory Servicing	Replace the liquid disinfectant	
GSE 032	Coupling, Lavatory Dumping	Drainage of waste	
GSE 033	Coupling, Lavatory Filling	Fill aircraft lavatory with liquid disinfectant	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Goggles	Protection for the eyes	1
Commercially available	Rubber Gloves	Protection for the hands	1



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(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Safety Clothes	Prevent contact with the lavatory fluids	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Celeste Sani-Pak "SP-77008"	Germicidal Deodorant	AR
Celeste Sani-Pak "SP-77080"	Germicidal Deodorant	AR
Celeste Sani-Pak "SP-97000"	Germicidal Deodorant	AR
Mirabowl "Q"	Germicidal Deodorant	AR
Monochem T-5 N.F. Toilet Chemical	Germicidal Deodorant	AR
Monochem DG-19	Germicidal Deodorant	AR
Honey Bee Deodorant 33	Germicidal Deodorant	AR
Aerofresh 35	Germicidal Deodorant	AR
Aeroshell Compound 07 or equivalent	De-Icing Fluid	AR
Commercially available	Alkaline-based cleaner	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Rear right side of the fuselage bottom

I. Preparation

SUBTASK 841-002-A

- (1) Open the waste-service-panel door 272AR (AMM MPP 06-41-01/100).

J. Toilet Unit Cleaning (Figure 701)

SUBTASK 130-002-A

- (1) Remove the cap (1) from the toilet rinse nipple (2).
- (2) Release the handle (3) and open the cap (4) of the waste drain valve (5).
- (3) Connect the lavatory dumping coupling (6) of the lavatory servicing cart (7) to the waste drain valve (5).
- (4) Connect the lavatory filling coupling (8) to the rinse nipple (2).
- (5) Push the lever (9) of the waste drain-valve actuator to open its internal flapper valve. Do not operate the coupling handle; its operation is not necessary.
- (6) Pull the drain T-handle (10) out and lock it to open the toilet unit drain valve as follows:

CAUTION: DO NOT TURN THE T-HANDLE MANY TIMES IN A SAME DIRECTION.
THE T-HANDLE CAN BE TWISTED AND BREAK.

- (a) Fully pull the T-handle (10) out (approximately 7.5 cm (3 in)) and turn it (approximately 5° to 20°) clockwise or counterclockwise to lock it.
- (7) Completely drain and rinse the toilet.
- (8) Do the subsequent procedure to make the alkaline-based cleanser and water solution:
 - (a) For the alkaline-based cleanser use a dilution rate of 1 cup and half per gallon of water if the toilet shows signs of heavy deposits build-up of waste material.
 - (b) For the alkaline-based cleanser use a dilution rate of 1 cup per gallon of water if the toilet shows signs of light deposits of waste material.
 - (c) For the alkaline-based cleanser use a dilution rate of 1/2 cup per gallon of water if you use a pressure washer to clean the toilet.
- (9) Fill the toilet with a solution of warm water and alkaline-based cleanser.

NOTE: The solution must make contact with the underside of the tank top. To make sure that it occurs, fill the toilet until you see the fluid in the toilet bowl.

- (10) Flush the toilet several times.

NOTE: This procedure ensures that the cleaning solution gets into the flush pump, flush tubing and flush channel of the toilet bowl.

CAUTION: IF FREEZING TEMPERATURES ARE FORECAST, ADD AEROSHELL COMPOUND 07 OR EQUIVALENT TO THE SOLUTION IN A PROPORTION OF 6.8 LITERS (1.8 GAL) OF SOLUTION AND 0.8 LITERS (0.2 GAL) OF AEROSHELL 07 FOR 7.6 LITERS (2.0 GAL) TO AVOID THE RISK OF FREEZING DURING THE OVERNIGHT. REFER TO [AMM MPP 20-30-06/200](#).

- (11) Leave the cleaning solution to stand in the toilets overnight.
- (12) Before the return to service of the aircraft, do the subsequent procedure to drain the solution from the toilet and rinse it.
 - (a) Release the T-handle (10) as follows:
 - 1 Turn the T-handle (10) in (approximately 5° to 20°) to unlock it (in the opposite direction to that used to lock it).
 - 2 Push the T-handle (10) in.
 - (b) Fill the toilet unit with 15 liters (4 gal) of water.
 - (c) Pull the T-handle (10) out and lock it to open the toilet unit drain valve.
 - (d) Release the T-handle (10) after all liquid is drained.
- (13) Fill the toilet unit with the solution prepared in the servicing cart (7):

- (a) For aircraft that operate at temperatures below 0°C (32°F) fill the toilet unit with a minimum of 6.8 liters (1.8 gal) of water and 0.8 liters (0.2 gal) of Aeroshell compound 07 or equivalent. Refer to ([AMM MPP 20-30-06/200](#)).
- For aircraft that operate at temperatures above 0°C (32°F) fill the toilet unit with a minimum of 7.6 liters (2.0 gal) of water.
- (b) Add the following products as recommended by the manufacturer:
- Mirabowl "Q" germicidal deodorant, or;
 - Celeste Sani-Pak "SP-77008" germicidal deodorant, or;
 - Celeste Sani-Pak "SP-77080" germicidal deodorant, or;
 - Celeste Sani-Pak "SP-97000" germicidal deodorant, or;
 - Monochem T-5 N.F. Toilet Chemical germicidal deodorant, or;
 - Monochem DG-19 germicidal deodorant, or;
 - Honey Bee Deodorant 33 germicidal deodorant, or;
 - Aerofresh 35 germicidal deodorant.
- (14) Disconnect the lavatory dumping (6) and filling (8) couplings.
- (15) Close the cap (4) and latch the handle (3) of the waste drain valve (5). The flapper valve will close automatically when the cap is closed.
- (16) Install the cap (1) on the toilet rinse nipple (2).

K. Follow-on

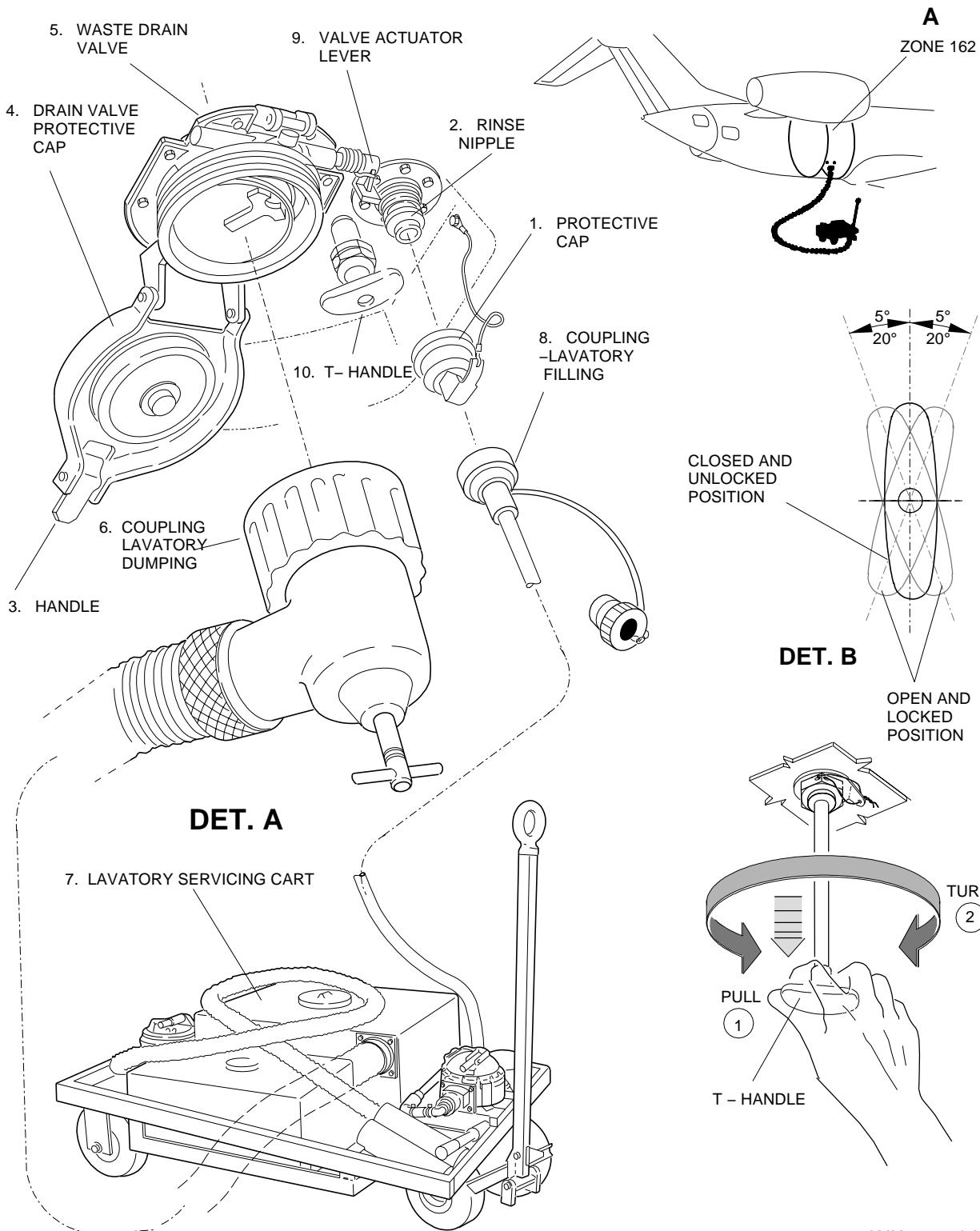
SUBTASK 842-002-A

- (1) Close waste-service-panel door 272AR (AMM MPP 06-41-01/100).

EFFECTIVITY: ALL

Toilet Unit - Cleaning

Figure 701



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