



AIRCRAFT MAINTENANCE MANUAL

WATER SYSTEM - SERVICING

EFFECTIVITY: ALL

1. General

- A. This section gives the servicing for the decalcification of the potable water system.
- 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
12-15-03-600-801-A	WATER SYSTEM - DECALCIFICATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 12-15-03-600-801-A

EFFECTIVITY: ALL

2. WATER SYSTEM - DECALCIFICATION

A. General

(1) This task gives the procedure for the decalcification of the potable water system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 12-15-01-600-801-A/300	WATER TANK - FILLING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193MR	Aft lower fairing
193	193NR	Aft lower fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 030	Service cart, water	To fill the tank with water	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Commercially available	Citric Acid, powder	AR
Commercially available	Sodium Hydroxide, powder	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Potable Water Servicing Panel

I. Preparation

SUBTASK 841-002-A

CAUTION: OPEN THE WATER SERVICING DOOR CAREFULLY NOT TO DAMAGE IT.

(1) Open access door 193MR or 193NR, as applicable (AMM MPP 06-41-01/100).

J. Water System Decalcification ([Figure 301](#)) ([Figure 302](#))

SUBTASK 610-002-A

- (1) Fully drain the water system.

NOTE: The tank is drained through the water drain installed on the servicing panel, near its control handle. To drain the water tank, remove the cap and pull the handle ([Figure 301](#) or [Figure 302](#)).

- (2) Prepare a mixture of:

- 400 ml granulated of citric acid (powder form)
- 2000 ml of hot water

NOTE: Exclusively for aircraft with stainless steel drain tube line, in the step (2) 100 ml of granulated sodium hydroxide (powder form) in addition to the mixture above may be used.

- (3) Add the mixture to the potable water system through the filling fitting. Continue to fill the potable water system with hot water until the system is full (water start to drain overboard through the over flow drain line) ([AMM TASK 12-15-01-600-801-A/300](#)).
- (4) Let the mixture stay in the system for 2-4 hours.
- (5) Operate the water faucet in the lavatory during chalk removal and water flushing steps.
- (6) Drain out the mixture and flush the whole system with clean water for at least 3-4 times.
- (7) If the water is satisfactory, fully fill the water tank with potable water ([AMM TASK 12-15-01-600-801-A/300](#)).

NOTE: By the time of performing the task 12-15-02 (sterilization of water reservoir) the decalcification task shall be performed firstly. Then make sure that there is an adequate rising step with water between the decalcification and sterilization.

K. Follow-on

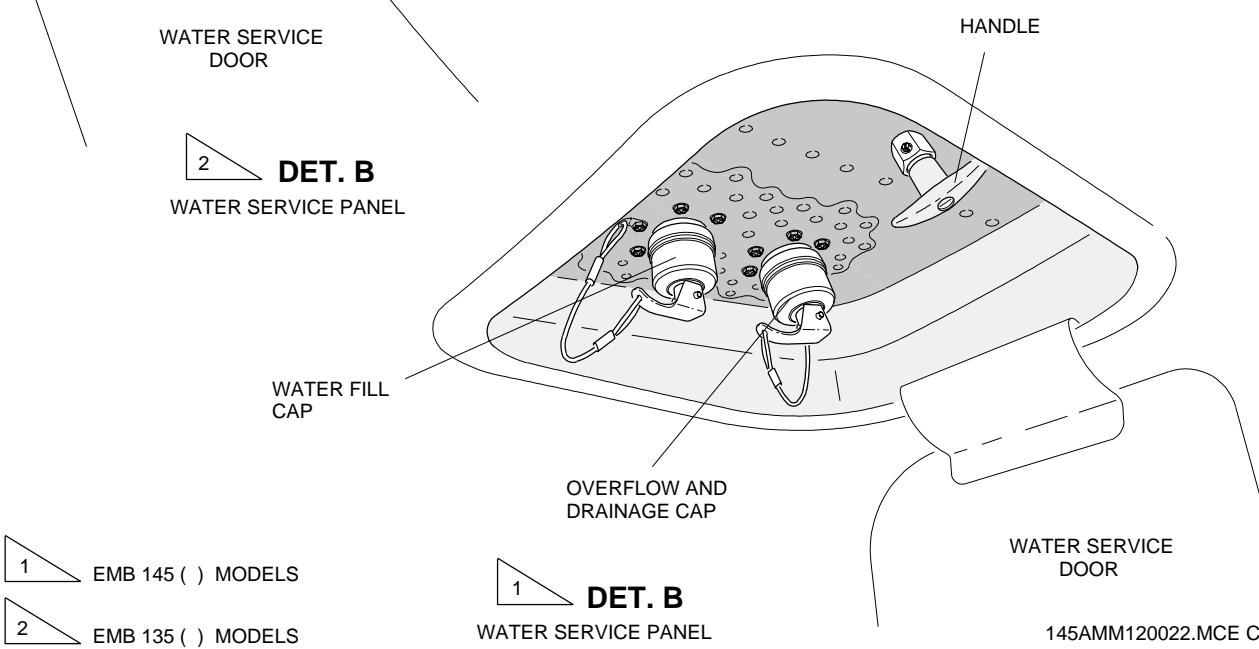
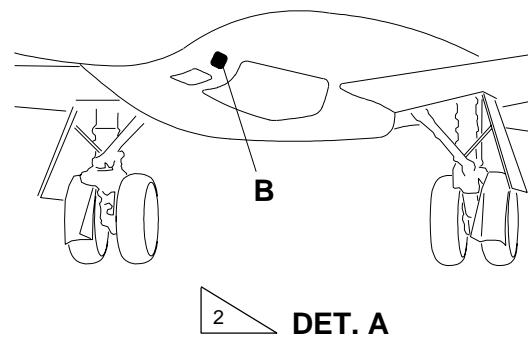
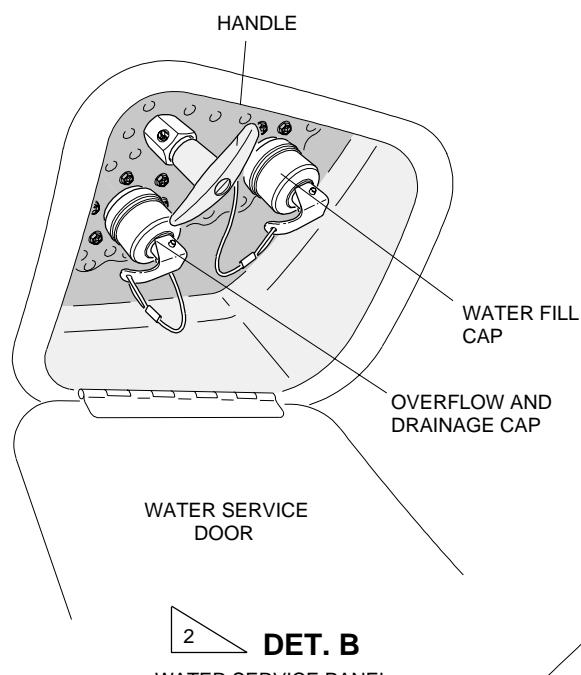
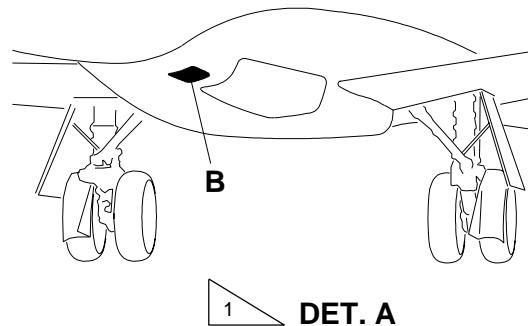
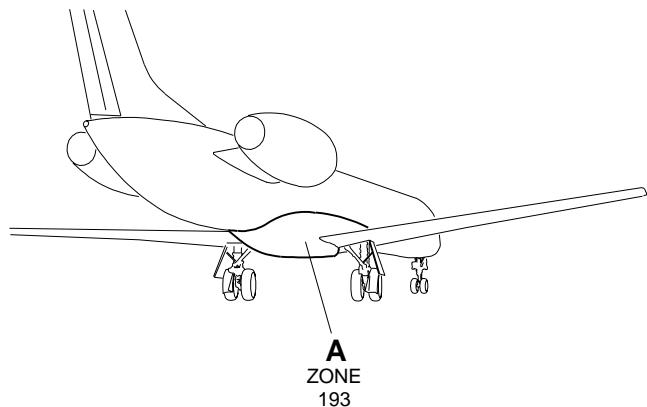
SUBTASK 842-002-A

- (1) Close access door 193MR or 193NR, as applicable (AMM MPP 06-41-01/100).

EFFECTIVITY: PRE-MOD. SB 145-38-0002

Water Tank - Decalcification

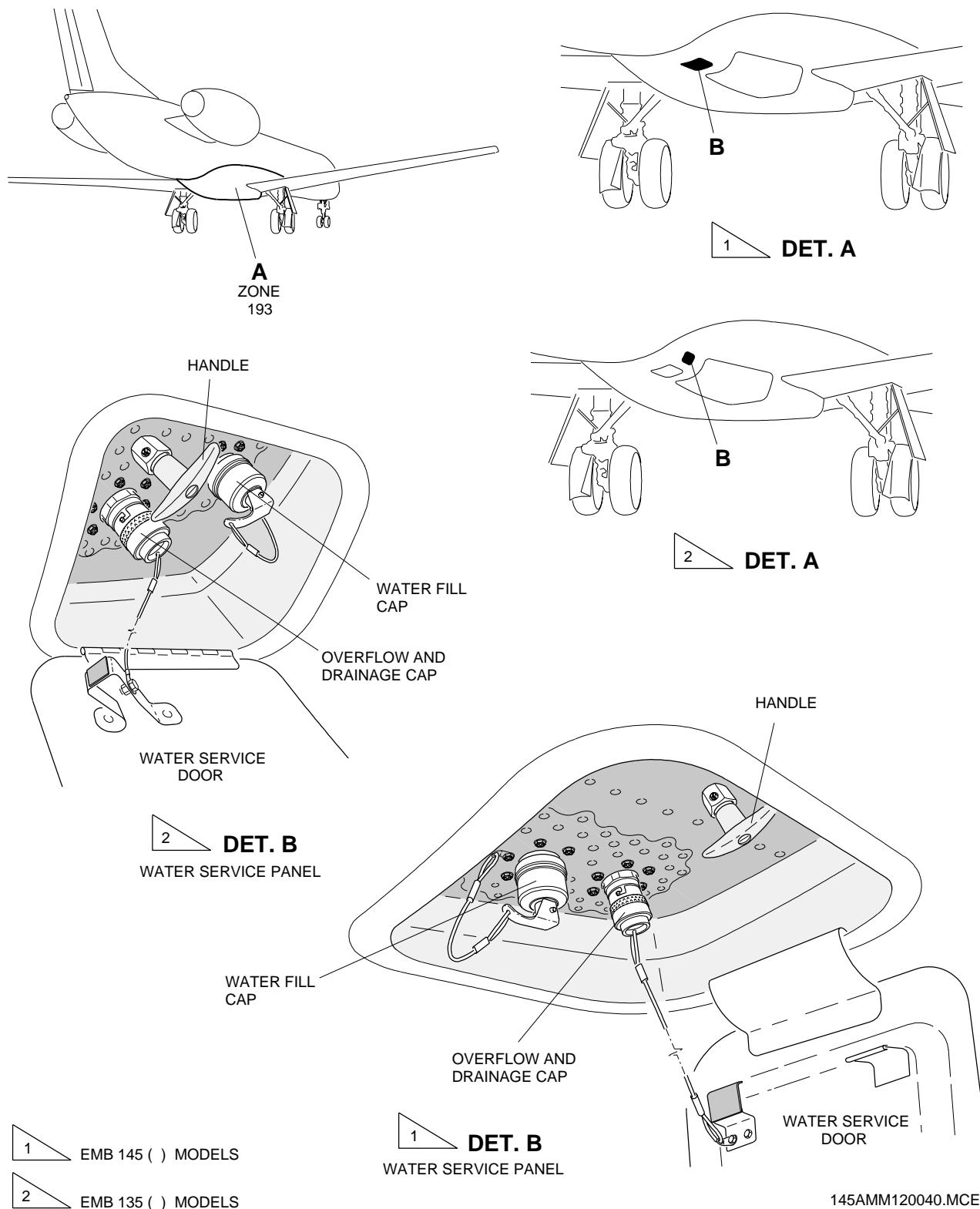
Figure 301



EFFECTIVITY: POST-MOD. SB 145-38-0002

Water Tank - Decalcification

Figure 302



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