



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

WATER SPRAY NOZZLE - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to clean the water spray nozzles. This procedure is applicable to the two water spray nozzles.
- B. The water spray nozzles are installed in the ram-air inlet ducts, between the ram air valves and the dual heat exchangers, inside the forward lower fairing.
- C. To do this procedure, you must remove the water spray nozzles.
- D. 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
21-51-13-100-801-A	WATER SPRAY NOZZLE - CLEANING	ALL

TASK 21-51-13-100-801-A
EFFECTIVITY: ALL
2. WATER SPRAY NOZZLE - CLEANING
A. General

- (1) This task gives the procedure to clean the water spray nozzle.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 21-51-13-000-801-A/400	WATER SPRAY NOZZLE - REMOVAL
AMM TASK 21-51-13-400-801-A/400	WATER SPRAY NOZZLE - INSTALLATION
IPC 21-51-00	COOLING PACK SYSTEM

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Compressed air source, 20 psi	To clean the water spray nozzle	

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Stiff-bristle brush	To clean the water spray nozzle	1
Commercially available	Nylon fishing line, 1.7 mm (0.039 in) diameter maximum	To clean the water spray nozzle	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
Commercially available	Mild soap	AR
Commercially available	Cloth	AR

G. Expendable Parts

<i>ITEM</i>	<i>IPC REFERENCE (VENDOR REFERENCE)</i>	<i>QTY</i>
Tiedown strap	IPC 21-51-00	2

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Outside the aircraft



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I. Preparation

SUBTASK 841-002-A

- (1) Remove the water spray nozzles ([AMM TASK 21-51-13-000-801-A/400](#)).

J. Cleaning of the Water Spray Nozzles ([Figure 701](#))

SUBTASK 140-002-A

EFFECTIVITY: ONLY AIRCRAFT WITH SPRAY NOZZLE 145-25793

- (1) Remove the tiedown strap (1) and the water-spray nozzle ejector (2) from the water-spray nozzle body (3).
- (2) Clean the water-spray nozzle ejector (2) and the water-spray nozzle body (3) with a stiff-bristle brush.
- (3) Wipe inside the water-spray nozzle ejector (2) with a Nylon fishing line.
- (4) Finish the cleaning of the water-spray nozzle ejector (2) and the water-spray nozzle body (3) with a cloth moistened with mild soap.
- (5) Blow the water-spray nozzle body (3) with compressed air at 20 psi.
- (6) Examine with backlight to see if there is obstruction inside the water-spray nozzle ejector (2). If so, clean it again or replace.
- (7) Install the water-spray nozzle ejector (2) and a new tiedown strap (1) on the water-spray nozzle body (3).

K. Cleaning of the Water Spray Nozzles ([Figure 702](#))

SUBTASK 140-003-A

EFFECTIVITY: ONLY AIRCRAFT WITH SPRAY NOZZLE 145-53171

- (1) Remove the the water-spray nozzle ejector (2) from the water-spray nozzle body (1).
- (2) Clean the water-spray nozzle ejector (2) and the water-spray nozzle body (1) with a stiff-bristle brush.
- (3) Wipe inside the water-spray nozzle ejector (2) with a Nylon fishing line.
- (4) Finish the cleaning of the water-spray nozzle ejector (2) and the water-spray nozzle body (3) with a cloth moistened with mild soap.
- (5) Blow the water-spray nozzle body (1) with compressed air at 20 psi.
- (6) Examine with backlight to see if there is obstruction inside the water-spray nozzle ejector (2). If so, clean it again or replace.
- (7) Install the water-spray nozzle ejector (2) on the water-spray nozzle body (1).

L. Follow-on

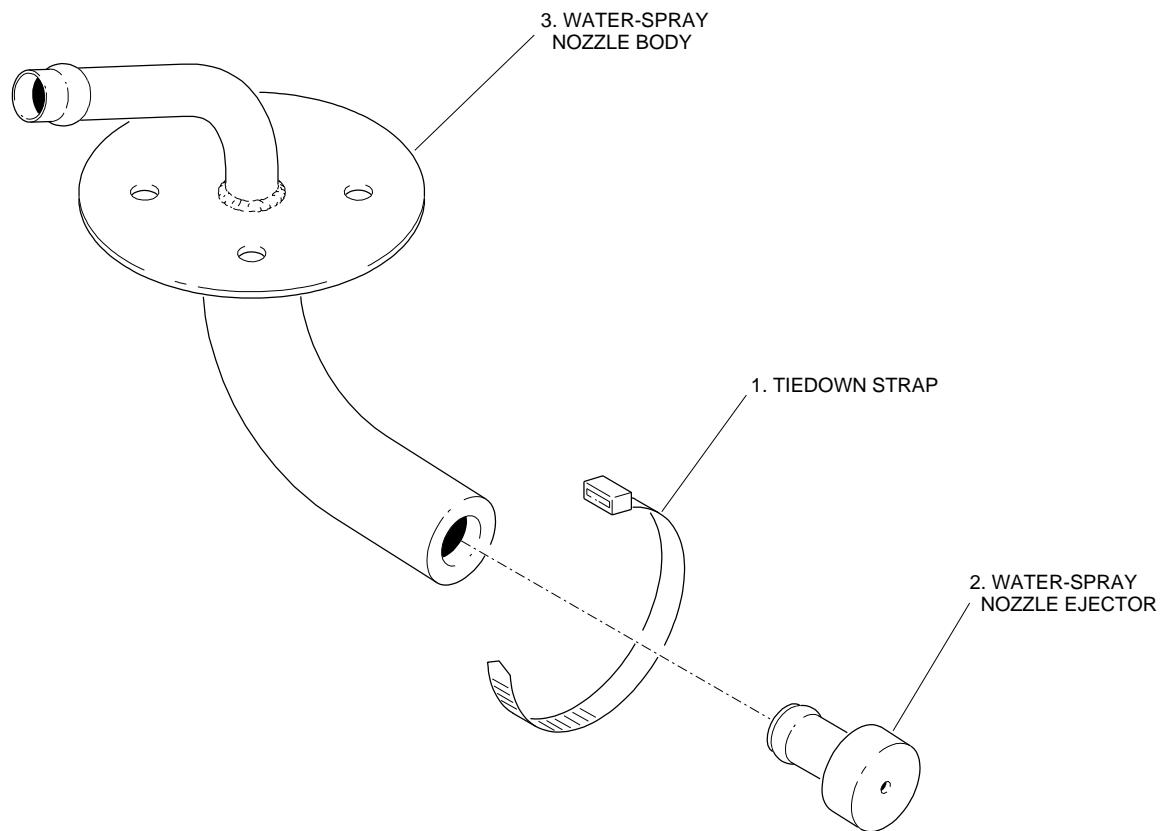
SUBTASK 842-002-A

- (1) Install the water spray nozzles ([AMM TASK 21-51-13-400-801-A/400](#)).

EFFECTIVITY: ALL

Water Spray Nozzle - Cleaning

Figure 701

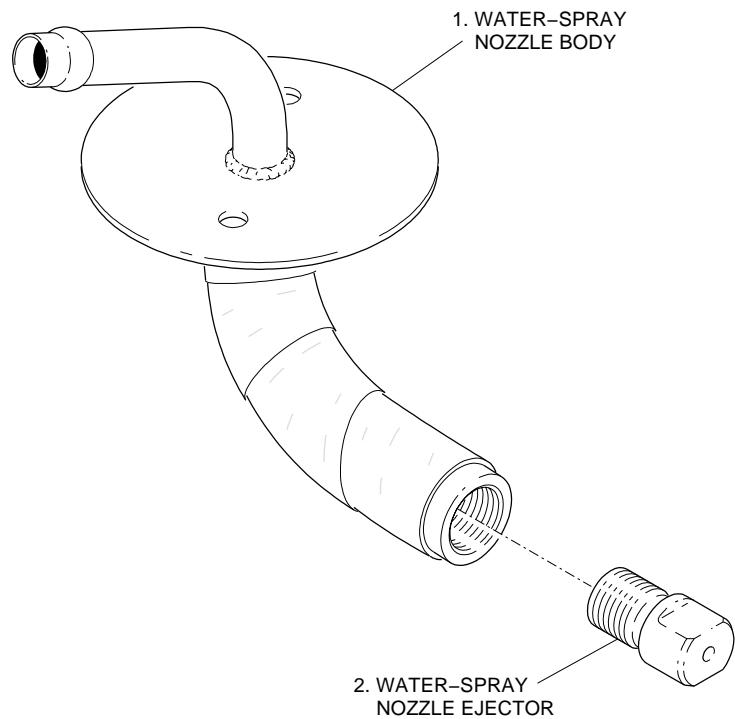


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EFFECTIVITY: ALL

Water Spray Nozzle - Cleaning

Figure 702



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