

PRE-COOLER - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to clean the precooler.
- 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 |
|----------------------|----------------------|-------------|
| 36-11-04-100-801-A ◆ | PRECOOLER - CLEANING | ALL |

TASK 36-11-04-100-801-A
EFFECTIVITY: ALL

2. PRECOOLER - CLEANING

A. General

(1) This task gives the procedure to clean the precooler.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|--|
| AMM TASK 36-11-04-000-801-A/400 | PRECOOLER - REMOVAL |
| AMM TASK 36-11-04-300-801-A/200 | THERMAL INSULATION OF THE PRE-COOLER OF AIR BLEED SYSTEM -REPAIR |
| AMM TASK 36-11-04-400-801-A/400 | PRECOOLER - INSTALLATION |

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

| ITEM | DESCRIPTION | PURPOSE | QTY |
|------------------------|---------------------------------|------------------------------|-----|
| Commercially available | Cutter | To cut the sealant I | AR |
| Commercially available | Acrylic or Polyethylene Spatula | To remove thermal insulation | 1 |
| Commercially available | Sandpaper, 240-grit | To break surface gloss | AR |
| Commercially available | Ultrasonic Bath | To clean parts | |

E. Auxiliary Items

| ITEM | DESCRIPTION | PURPOSE | QTY |
|------------------------|----------------|--|-----|
| Commercially available | Safety Goggles | For protection of your eyes | 1 |
| Commercially available | Gloves | For protection of your hands | 2 |
| Commercially available | Dust Mask | To prevent skin irritations and excessive inhalation | 1 |

F. Consumable Materials

| SPECIFICATION (BRAND) | DESCRIPTION | QTY |
|--------------------------|---------------------------|-----|
| TT-M-261 | Methyl Ethyl Ketone (MEK) | AR |
| TT-I-735 | Isopropyl Alcohol | AR |
| ML No 2/1 | Stripalene 110 | AR |

G. Expandable Parts

Not Applicable

H. Persons Recommended

Not Applicable

I. Preparation

SUBTASK 841-002-A

- (1) Remove the precooler ([AMM TASK 36-11-04-000-801-A/400](#)).
- (2) Before you start the cleaning procedure, remove all the thermal insulation from the precooler.
- (3) With the aid of a spatula, remove the thermal insulation from the precooler.
- (4) With the aid of 240-grit sandpaper, remove the remaining thermal insulation from the precooler. Refer to [Figure 701](#).
- (5) Clean the area with methyl ethyl ketone and isopropyl alcohol.
- (6) Make sure that all the sealant was removed from the precooler surface.

J. Clean Precooler by Chemical Method ([Figure 701](#))

SUBTASK 110-002-A

WARNING: OBEY ALL SAFETY STANDARDS FOR USE OF STRIPALENE 110 THAT CONTAINS CAUSTIC SODA AND IS STRONGLY ALKALINE. BE CAREFUL WHEN YOU MIX IT WITH WATER, TO PREVENT SPLASHING. WEAR PROTECTIVE CLOTHING, GLOVES AND CHEMICAL PROOF GOGGLES/ FACE SHIELD. DO NOT HANDLE IT WITHOUT PROTECTION. IF YOU DO NOT OBEY THE SAFETY PRECAUTIONS, INJURY TO PERSONS WILL OCCUR.

- (1) Clean the Precooler as follows:
 - (a) Immerse the precooler in a 25% Stripalene 110 (ML No 2/1) and water solution, heated to between 70 and 90 degree celsius, for a period of 2 hours.
 - (b) Remove the precooler from the solution and steam clean externally and internally to remove all traces of the solution.
 - (c) Flush the bleed-air and cooling-air passages, using de-mineralized water, for 1 hour and drain.
 - (d) Oven dry the precooler, at 150 degrees celsius, for 1 hour.
 - (e) Circulate dry air through the bleed-air and cooling-air passages for 1 hour.
- (2) Internal Pressure Cleaning:
 - (a) Reverse pressure flush the precooler for a period related to the degree of suspected contamination.

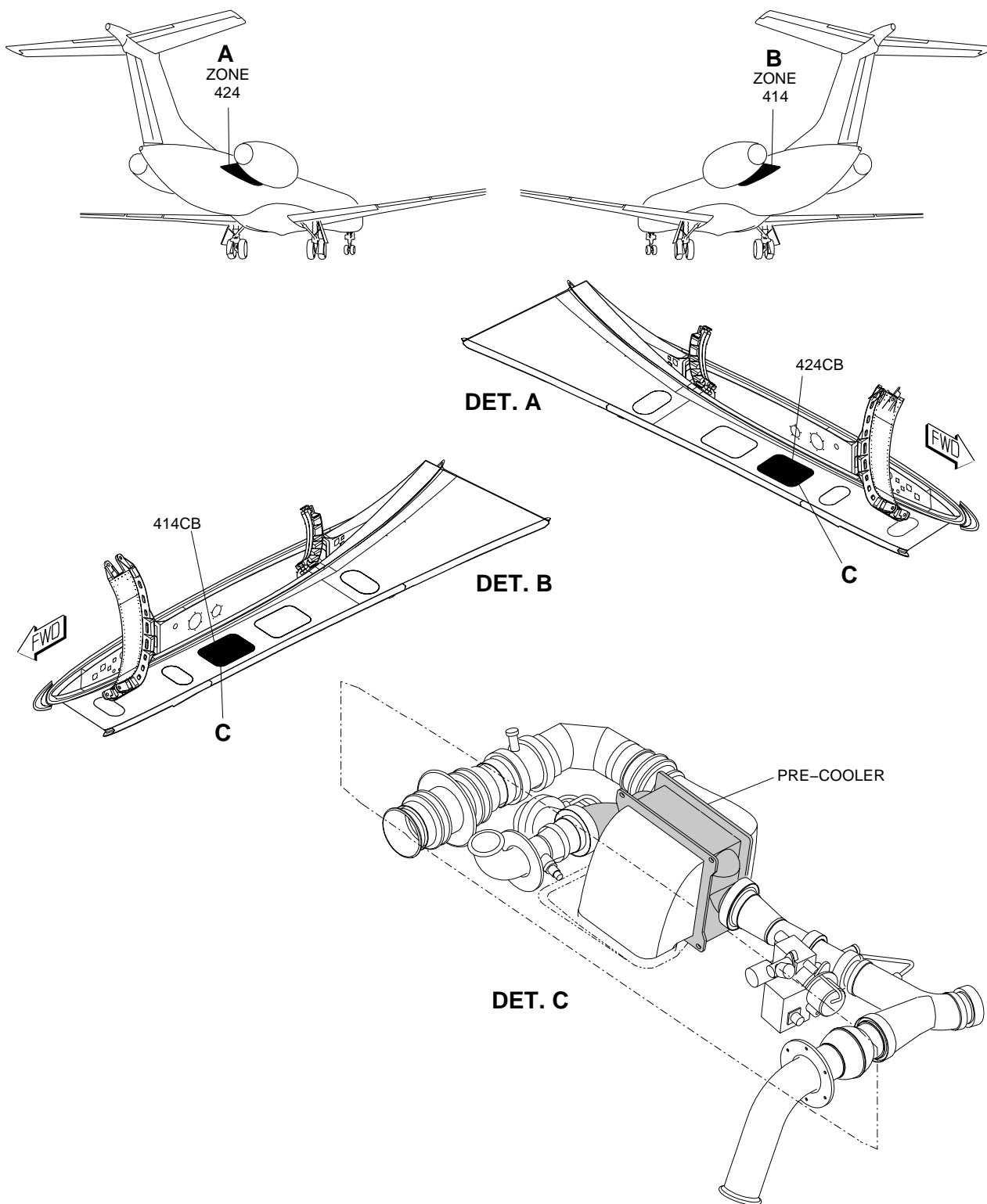
- (b) If precooler fails, refer to the instructions in CMM 36-10-51 Honeywell (Testing and Fault Isolation, step C (2) and (3)).

K. Follow-on

SUBTASK 842-002-A

- (1) Install the precooler thermal insulation ([AMM TASK 36-11-04-300-801-A/200](#)).
- (2) Install the precooler ([AMM TASK 36-11-04-400-801-A/400](#)).

EFFECTIVITY: ALL
Precooler - Location
Figure 701



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