

FLAME ARRESTOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures for the removal/installation of the Flame Arrestor.
- B. There are two flame arrestors. There is one flame arrestor in each wing fuel tank.
- C. 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
28-12-05-000-801-A	FLAME ARRESTOR - REMOVAL	ALL
28-12-05-400-801-A	FLAME ARRESTOR - INSTALLATION	ALL

TASK 28-12-05-000-801-A

EFFECTIVITY: ALL

2. FLAME ARRESTOR - REMOVAL

A. General

- (1) This task gives the procedures to remove the Flame Arrestor.
- (2) There are two flame arrestors. There is one flame arrestor in each wing fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-000-802-A/400	FUEL-TANK ACCESS PANELS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551AB	LH Underwing surface
651	651AB	RH Underwing surface

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Polyethylene spatula	To remove the sealant	AR

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Underwing

I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVE IN [AMM MPP 28-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL.

- (1) Do the procedure to make the aircraft safe for maintenance.
- (2) Do the procedure to make the aircraft safe for maintenance of the fuel.
- (3) Defuel the tanks ([AMM TASK 12-11-01-600-802-A/300](#)).
- (4) Remove access panels 551AB/651AB ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-801-A/400](#)) or ([AMM TASK 28-11-01-000-802-A/400](#)), as applicable , to get access to the flame arrestor.

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

SUBTASK 020-002-A

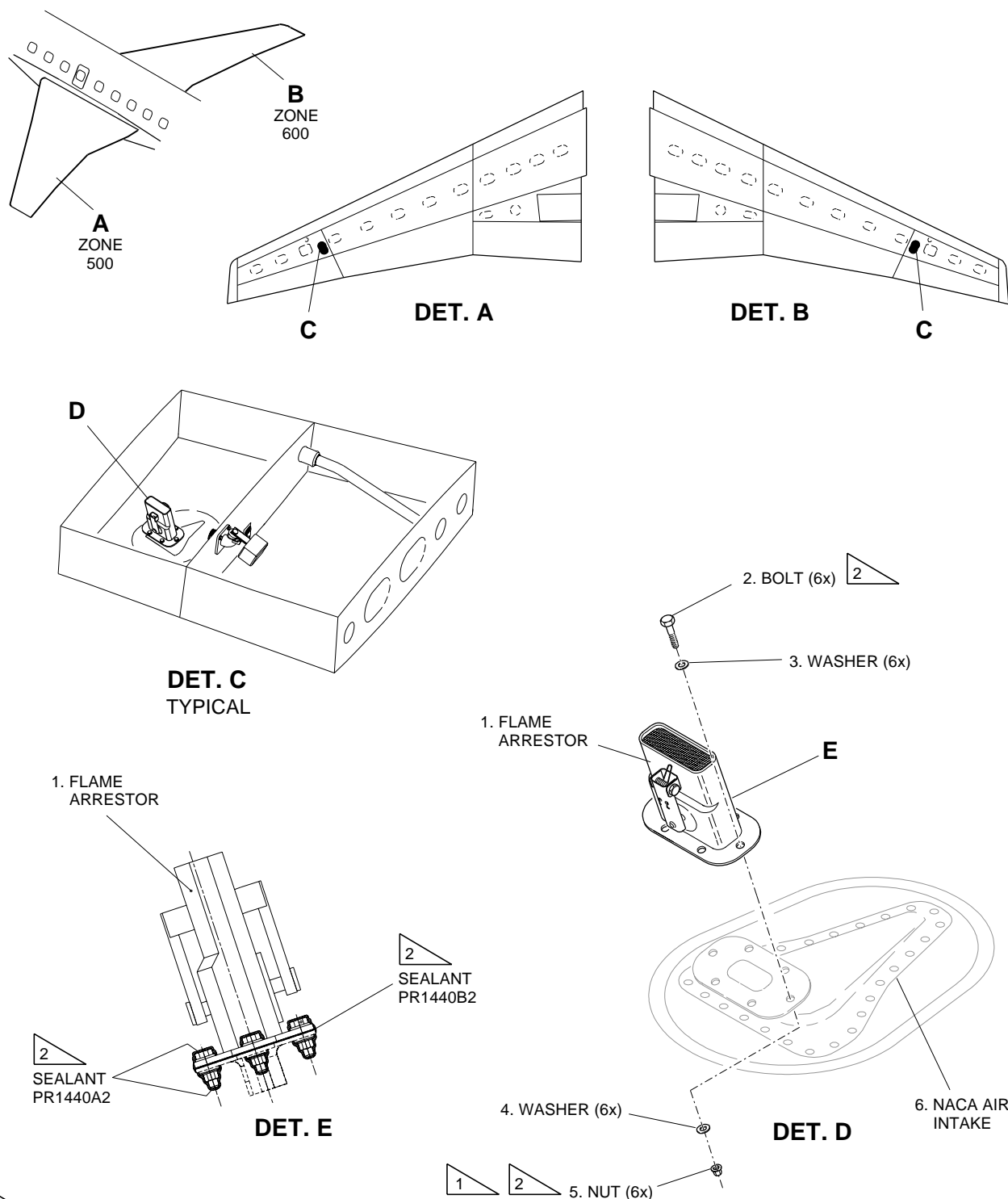
CAUTION: DO NOT USE METAL BRUSHES, METAL SCRAPERS, CHIPCHASERS, PICKS, SCREWDRIVES, BLADES, STEEL WOOL OR ABRASIVE TO REMOVE SEALANTS AND PAINT, THESE TOOLS CAN CAUSE SCRATCHES AND CRACKS AND, AS A RESULT, SERIOUS DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (1) Use a polyethylene spatula to remove the sealant from the bolts (2) and the nuts (5).
- (2) Use a polyethylene spatula to remove the sealant from the flame arrestor (1).
- (3) Remove the bolts (2), washers (3) and (4) , and nuts (5) that attach the flame arrestor (1) to the NACA air inlet (6).
- (4) Remove the flame arrestor (1).

EFFECTIVITY: ALL

Flame Arrestor - Removal/Installation

Figure 401



1 TORQUE: 2.3 – 2.8 N.m (20 – 25 lbf.in)

2 SEALANT

EM145AMM281307A.DGN

TASK 28-12-05-400-801-A
EFFECTIVITY: ALL

3. FLAME ARRESTOR - INSTALLATION

A. General

- (1) This task gives the procedure to install the Flame Arrestor.
- (2) The sealant approved for bolts (2) and nuts (5) of the flame arrestor area is sealant PR1440A2.
- (3) The sealant approved along the contour of the flame arrestor base is sealant PR1440B2.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
AMM TASK 28-12-05-200-801-A/600	FLAME ARRESTOR - INSPECTION
AMM TASK 28-12-05-700-801-A/500	FLAME ARRESTOR - OPERATIONAL CHECK
SRM 51-20-01	-
TASK 28-11-01-400-802-A	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
551	551AB	LH Underwing surface
651	651AB	RH Underwing surface

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench	To apply torque to the flame arrestor	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
SAE AMS-S-8802 Type II - Class A2	Sealant, PR-1440 A2	AR
SAE AMS-S-8802-Type II - Class B2	Sealant, PR-1440 B2	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Underwing

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the flame arrestor (1) to the NACA air inlet (6) with bolts (2), washers (3) and (4), and nuts (5).
- (2) Use a torque wrench to apply torque in the nuts (5).

WARNING: ALWAYS OBEY THE MANUFACTURER'S HEALTH AND SAFETY PRECAUTIONS WHEN YOU USE SEALANTS OR SOLVENTS. USE SEALANTS OR SOLVENTS ONLY IN THE AREAS WHERE IS A GOOD AIRFLOW . DO NOT BREATHE THE FUMES OF THESE MATERIALS AND DO NOT GET THEM ON YOUR SKIN, IN YOUR EYES OR MOUTH. PUT ON APPROVED PROTECTIVE CLOTHING AND GOGGLES . SEALANTS AND SOLVENTS ARE DANGEROUS AND IF YOU DO NOT OBEY THESE PRECAUTIONS, INJURY CAN OCCUR.

- (3) Apply a thin layer of the approved sealant to the bolts (2), and the nuts (5). Refer to SRM 51-20-01.
- (4) Apply a thin layer of the approved sealant along the contour of the flame arrestor (1) base. Refer to SRM 51-20-01.

J. Follow-on

SUBTASK 842-002-A

CAUTION: EXAMINE ALL THE WORK AREAS TO MAKE SURE THAT YOU REMOVED ALL TOOLS AND EQUIPMENT AFTER YOU COMPLETE THE WORK. IF YOU DO NOT OBEY THIS PROCEDURE, DAMAGE TO THE AIRCRAFT CAN OCCUR.

- (1) Remove all tools, equipment and unwanted materials from the work area.
- (2) Do the inspection of the flame arrestor ([AMM TASK 28-12-05-200-801-A/600](#)).
- (3) Do the operational check of the flame arrestor ([AMM TASK 28-12-05-700-801-A/500](#)).
- (4) Install access panel 551AB/651AB [AMM MPP 06-44-00/100](#) and the ([AMM TASK 28-11-01-400-801-A/400](#)) or (T ASK 28-11-01-400-802-A), as applicable.