AOA SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

   A. This section gives the procedures to remove and install the Angle-of-Attack (AOA) Sensor.

   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*
27-36-01-000-801-A	ANGLE OF ATTACK (AOA) SENSOR - REMOVAL	ALL
27-36-01-400-801-A	ANGLE OF ATTACK (AOA) SENSOR - INSTALLATION	ALL

TASK 27-36-01-000-801-A
EFFECTIVITY: ALL

2. ANGLE OF ATTACK (AOA) SENSOR - REMOVAL

A. General

(1) This task gives the procedures to remove the Angle-of-Attack (AOA) sensors.

(2) There are two AOA sensors on the aircraft: AOA sensor 1 and AOA sensor 2. These procedures are applicable to the two sensors.

(3) AOA sensor 1 is installed on the left side of the aircraft. See Figure 401.

(4) AOA sensor 2 is installed on the right side of the aircraft. See Figure 401.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

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

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	On the Forward Fuselage

H. Preparation

SUBTASK 841-002-A

(1) Make sure that the aircraft is safe for maintenance.

(2) On the Circuit Breaker Panel, open the SPS CHANNEL 1/2, SHAKER 1/2, and PUSHER CLUTCH circuit breakers and attach a DO-NOT-TAG to them.

(3) On the right electrical power control/distribution box, open the PUSHER MOTOR circuit breaker and attach a DO-NOT-TAG to it.

I. Removal (Figure 401)

SUBTASK 020-002-A

CAUTION: BE CAREFUL WHEN YOU USE THE POLYETHYLENE SPATULA TO BREAK THE SEAL. TOO MUCH FORCE CAN CAUSE DAMAGE TO THE AIRCRAFT SKIN.

(1) Use a spatula between the cover (5) and the aircraft skin to make the separation.

(2) Release the screw (4) to remove the cover (5).

(3) Remove the cover (5) and O-ring (6). Discard the O-ring (6).

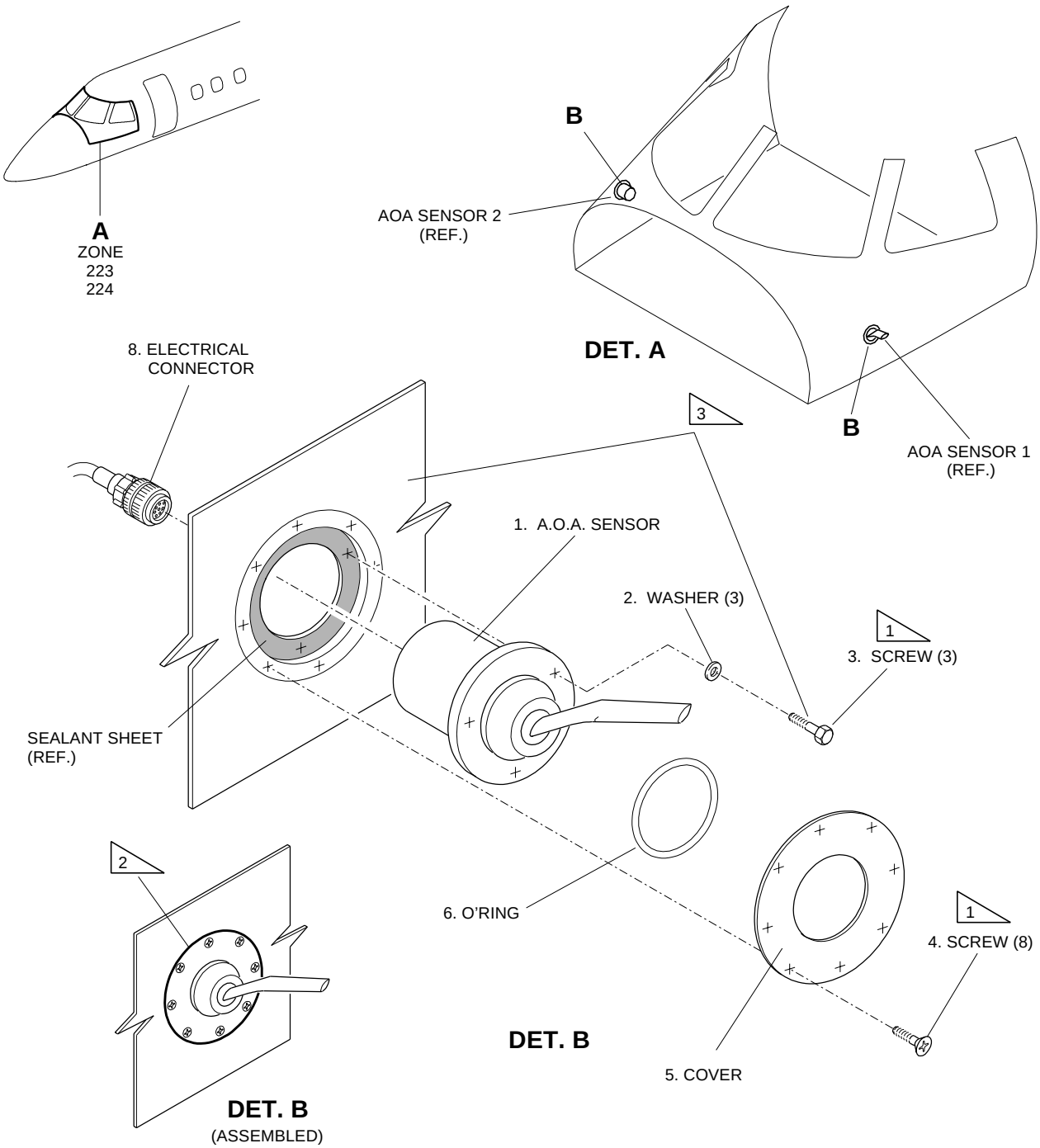
(4) Release the screw (3) and washer (2) to remove AOA sensor (1).

(5) Disconnect the electrical connector (8) from AOA sensor (1).

(6) Remove AOA sensor (1).

EFFECTIVITY: ALL

AOA Sensors - Removal/Installation
Figure 401



1 TORQUE: 0.8 − 1.0 N.m (7 − 9 lb.in).

2 SEALANT PR1422B2

3 ELECTRICAL BONDING

EM145AMM270056D.DGN

TASK 27-36-01-400-801-A
EFFECTIVITY: ALL

3. ANGLE OF ATTACK (AOA) SENSOR - INSTALLATION

A. General

(1) This task gives the procedures to install AOA sensor 1 and AOA sensor 2.

B. References

REFERENCE	*DESIGNATION*
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 27-36-00-700-801-A/500	STALL PROTECTION SYSTEM - OPERATIONAL CHECK
IPC 27-36-01	ANGLE OF ATTACK SENSOR

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Torque wrench	To apply torque	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	*DESCRIPTION*	*QTY*
SAE AMS-S-8802 Type II - Class B2	Sealant. PR 1422-B2	AR

G. Expendable Parts

ITEM	*IPC REFERENCE (VENDOR REFERENCE)*	*QTY*
O-ring	IPC 27-36-01	1

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	On the Forward Fuselage

I. Installation (Figure 401)

SUBTASK 420-002-A

(1) Connect the electrical connector (8) to AOA sensor (1).

(2) With the screws (3) and washers (2) install the AOA sensor (1) in the housing in the aircraft.

(3) Use a torque wrench to torque the screws (3) to 0.8 - 1.0 N.m (7 - 9 lbf.in).

(4) Do the bonding test between the screw (3) and aircraft fuselage (AMM TASK 20-13-21-700-801-A/200).

(5) Install the O-ring (6) in the cover (5).

(6) With the screws (4) install the cover (5).

(7) Use a torque wrench to torque the screws (4) to 0.8 - 1.0 N.m (7 - 9 lbf.in).

(8) Apply sealant PR 1422-B2 around the cover (5).

J. Follow-on

SUBTASK 842-002-A

(1) On the Circuit Breaker Panel, close the SPS CHANNEL 1/2, SHAKER 1/2, and PUSHER CLUTCH circuit breakers and remove the DO-NOT-TAG from them.

(2) On the right electrical power control/distribution box, close the PUSHER MOTOR circuit breaker and remove the DO-NOT-TAG from it.

(3) Do the operational check of the Stall Protection System (AMM TASK 27-36-00-700-801-A/500).