PITOT CURRENT SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1.   General

   A.   This section gives the procedures to remove and install the current sensors.

   B.   These procedures are applicable to the PITOT-1, PITOT-2, and PITOT-3 current sensor.

   C.   The PITOT-1 current sensor are installed in the LH Relay Support and the PITOT-2 and PITOT-3 current sensors are installed in the RH Relay Support.

   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
30-31-01-000-801-A	PITOT CURRENT SENSOR - REMOVAL	ALL
30-31-01-400-801-A	PITOT CURRENT SENSOR - INSTALLA-TION	ALL

TASK 30-31-01-000-801-A
EFFECTIVITY: ALL

2. <u>PITOT CURRENT SENSOR - REMOVAL</u>

    A. General

        (1) This procedure gives the instructions to remove the Pitot current sensor.

    B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM SDS 23-51-00/1	
AMM SDS 24-60-00/1	

    C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223ELW	LH sidewall lining
224	224ERW	RH sidewall lining

    D. Tools and Equipment

        Not Applicable

    E. Auxiliary Items

        Not Applicable

    F. Consumable Materials

        Not Applicable

    G. Expandable Parts

        Not Applicable

    H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH sidewall lining

    I. Preparation

    SUBTASK 841-002-A

        (1) Open the HEATING/PITOT 1 circuit breaker and attach a DO-NOT-CLOSE tag to it (LH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

        (2) Open the HEATING/PITOT 2 circuit breaker and attach a DO-NOT-CLOSE tag to it (RH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

        (3) Open the PITOT HTG 3 circuit breaker and attach a DO-NOT-CLOSE tag to it (RH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

(4) Carefully remove access panel 223ELW or 224ERW, as applicable (AMM MPP 06-41-03/100).

(5) To remove Pilot/Copilot Audio Jack Panel (AMM SDS 23-51-00/1), do as follows:

    (a) Unlock the two Dzus fasteners, that attach pilot/copilot Audio jack panel, as applicable.

    (b) Carefully pull the Pilot/Copilot Audio Jack panel and pass it through the hole in the access panel.
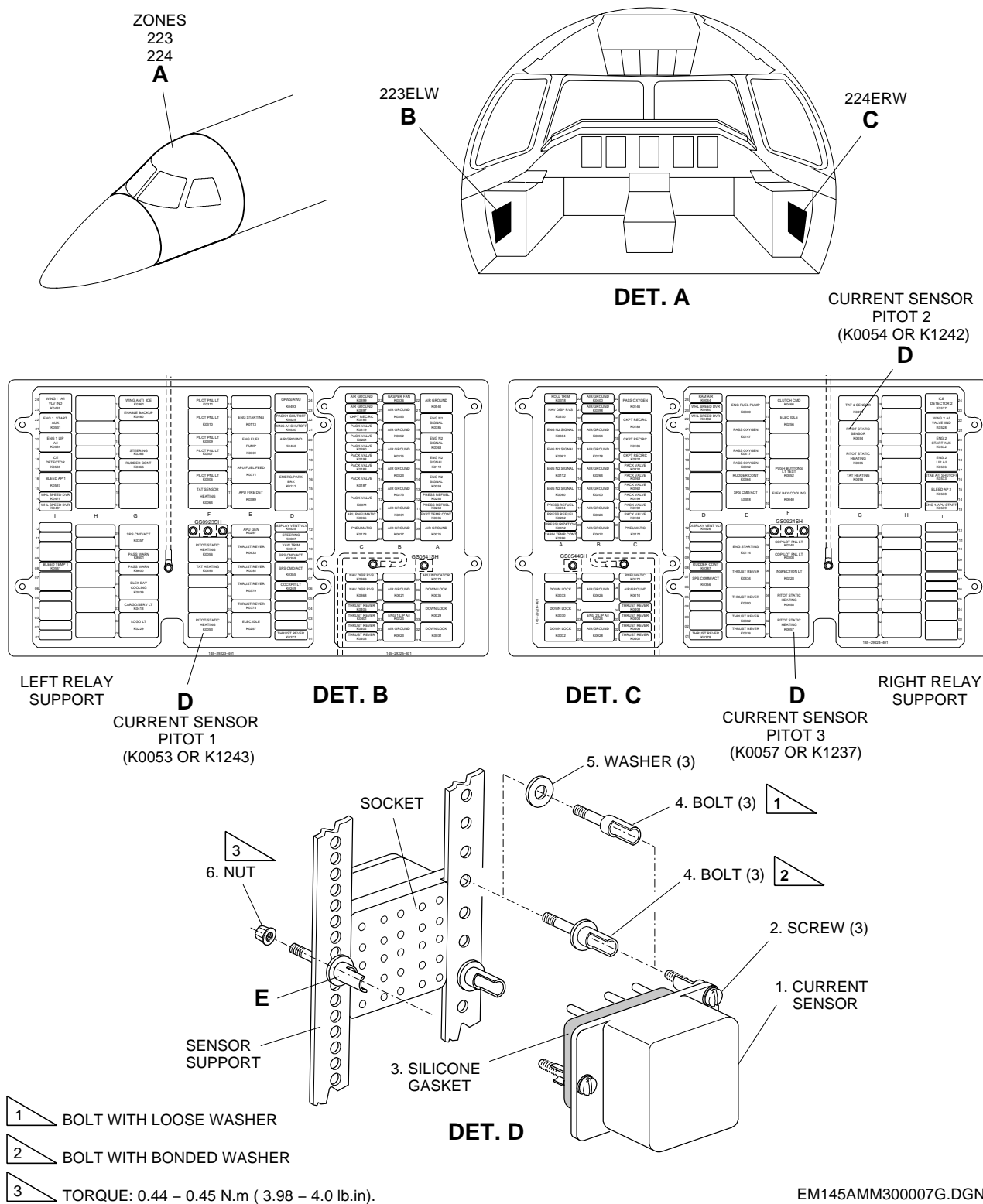
J. Removal (Figure 401)

SUBTASK 020-002-A

<u>CAUTION</u>: WHEN YOU REMOVE THESE COMPONENTS, BE CAREFUL NOT TO LET THEM FALL INTO THE AIRFRAME INTERIOR AND CAUSE DAMAGE.

(1) For current sensor removal, do as follows:

    (a) Loosen the three screws (2) (Figure 401).

    (b) Remove the current sensor (1) (Figure 401).

(2) For socket removal, do as follows:

    (a) Remove the LH relay support or RH relay support, as applicable (AMM SDS 24-60-00/1).

    (b) Remove the three nuts (6) (Figure 401).

    (c) Remove the socket from the support (Figure 401).

EFFECTIVITY: ALL
Pitot Current Sensor - Removal/Installation
Figure 401

ZONES
223
224
A

223ELW
B

224ERW
C

DET. A

CURRENT SENSOR
PITOT 2
(K0054 OR K1242)
D

LEFT RELAY
SUPPORT

D
CURRENT SENSOR
PITOT 1
(K0053 OR K1243)

DET. B

DET. C

D
CURRENT SENSOR
PITOT 3
(K0057 OR K1237)

RIGHT RELAY
SUPPORT

5. WASHER (3)

4. BOLT (3) ◣**1**

4. BOLT (3) ◣**2**

3
6. NUT

E

SENSOR
SUPPORT

SOCKET

2. SCREW (3)

1. CURRENT
SENSOR

3. SILICONE
GASKET

DET. D

◣**1** BOLT WITH LOOSE WASHER

◣**2** BOLT WITH BONDED WASHER

◣**3** TORQUE: 0.44 – 0.45 N.m (3.98 – 4.0 lb.in).

EM145AMM300007G.DGN

TASK 30-31-01-400-801-A
EFFECTIVITY: ALL

3. PITOT CURRENT SENSOR - INSTALLATION

   A. General

   (1) This procedure gives the instructions to install the pitot current sensor.

   B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM SDS 23-51-00/1	
AMM SDS 24-60-00/1	
AMM TASK 23-51-00-700-801-A/500	AUDIO SYSTEM EMERGENCY MODE - OPERATIONAL CHECK
AMM TASK 23-51-00-700-802-A/500	AUDIO SYSTEM - OPERATIONAL TEST
AMM TASK 30-31-00-700-801-A/500	PITOT AND ANEMOMETRIC STATIC PORT HEATING - OPERATIONAL CHECK

   C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223ELW	LH sidewall lining
224	224ERW	RH sidewall lining

   D. Tools and Equipment

   Not Applicable

   E. Auxiliary Items

   Not Applicable

   F. Consumable Materials

   Not Applicable

   G. Expandable Parts

   Not Applicable

   H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH sidewall lining

   I. Installation (Figure 401)

   SUBTASK 420-002-A

   CAUTION: MAKE SURE THAT YOU INSTALL WASHERS ONLY TO THE BOLTS THAT DO NOT HAVE A WASHER INSTALLED ON THEM.

   (1) For socket installation, do as follows:

   (a)   Install the socket in the sensor support (Figure 401).

   (b)   Install the bolt as applicable:

       1   (Bolt with loose washer) Install the washers (5), bolts (4), and nuts (6) (Figure 401).

       2   (Bolt with bonded washer) Install the bolts (4) and nuts (6) (Figure 401).

       3   Install back the LH relay support or RH relay support, as applicable (AMM SDS 24-60-00/1).

(2)   For current sensor installation, do as follows:

   (a)   Install the current sensor (1) to its socket (Figure 401).

   (b)   Tighten the three screws (2) to attach the current sensor (1) (Figure 401).

       NOTE: Make sure that there is no gap between the current sensor and its silicone gasket (3).

J.   Follow-on

SUBTASK 842-002-A

(1)   Carefully pass the Pilot/Copilot Audio Jack panel through the hole in the access panel, as applicable (AMM SDS 23-51-00/1).

(2)   Install the Pilot/Copilot Audio Jack Panel in its installation position (AMM SDS 23-51-00/1).

(3)   Lock the two Dzus fasteners, to attach the Pilot/Copilot Audio Jack Panel (AMM SDS 23-51-00/1).

(4)   Close the 223ELW or 224ERW access panel, as applicable (AMM MPP 06-41-03/100).

(5)   Close the HEATING/PITOT 1 circuit breaker and remove the DO-NOT-CLOSE tag from it (LH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

(6)   Close the HEATING/PITOT 2 circuit breakers and remove the DO-NOT-CLOSE tag from it (RH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

(7)   Close the HEATING/PITOT 3 circuit breaker and remove the DO-NOT-CLOSE tag from it (RH electrical-power control/distribution box (AMM SDS 24-60-00/1)).

(8)   Do the Operational Check of the Pitot & Anemometric Static Port Heating (AMM TASK 30-31-00-700-801-A/500).

(9)   Do the Operational Check of AIRBORNE AUDIO SYSTEM (AMM TASK 23-51-00-700-801-A/500) and (AMM TASK 23-51-00-700-802-A/500).