

## AIR DATA COMPUTER (ADC) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedure to remove/install the Air Data Computer (ADC1 and ADC2).
- B. ADC1 is installed on the left side of the forward electronic compartment.
- C. ADC2 is installed on the right side of the forward electronic compartment.
- 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
34-15-01-000-801-A	AIR DATA COMPUTER (ADC) - REMOVAL	ALL
34-15-01-400-801-A	AIR DATA COMPUTER (ADC) - INSTALLATION	ALL

TASK 34-15-01-000-801-A

EFFECTIVITY: ALL

## 2. AIR DATA COMPUTER (ADC) - REMOVAL

### A. General

(1) This task gives the procedure to remove the ADC.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 20-10-03-000-801-A/400</a>	TUBING - REMOVAL
<a href="#">AMM TASK 29-10-00-860-802-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
<a href="#">AMM TASK 32-00-02-910-801-A/200</a>	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
<a href="#">S.B.145-32-0036</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	Electronic compartment
214	113CZ	Electronic compartment

### 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	Electronic compartment

### I. Preparation

#### SUBTASK 841-002-A

- (1) (Applicable to aircraft PRE-MOD. [S.B.145-32-0036](#)) Make sure that the pressure in hydraulic system 1 is fully released ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (2) (Applicable to aircraft POST-MOD. [S.B.145-32-0036](#)) Install the safety pin of the NLG-door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

- (3) Open access door 113CZ (AMM MPP 06-41-01/100).
- (4) On the Circuit Breaker Panel, open the ADC1 (Location tip: ESSENTIAL DC BUS 1/NAV/ADC1) or ADC2 (Location tip: DC BUS 2/NAV/ADC2) circuit breaker and attach a DO-NOT-CLOSE tag to it.

J. Removal (Figure 401)

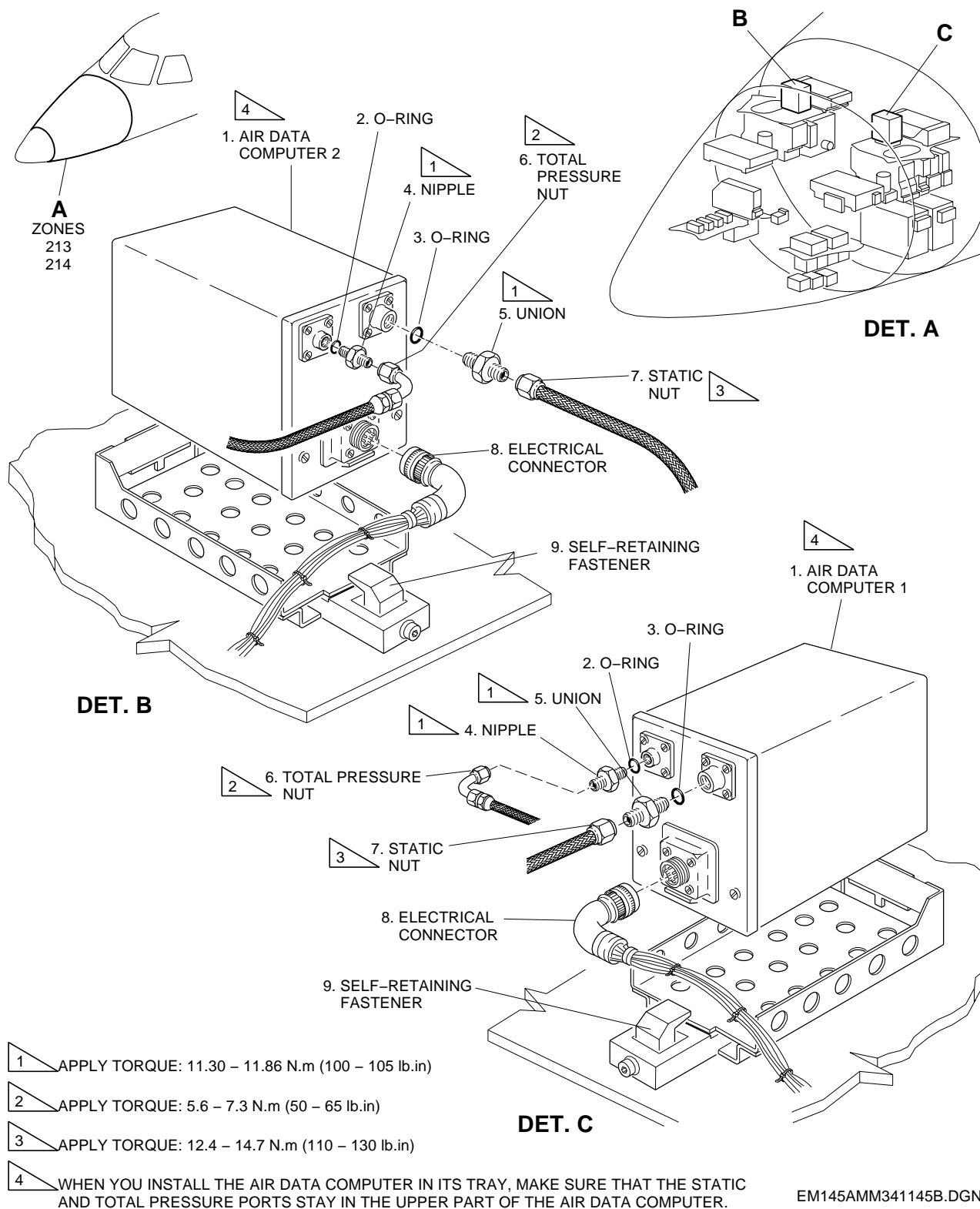
*SUBTASK 020-002-A*

- (1) Disconnect the static hose from the union (5) (AMM TASK 20-10-03-000-801-A/400).
- (2) Disconnect the total pressure hose from the nipple (4) (AMM TASK 20-10-03-000-801-A/400).
- (3) Remove the electrical connector (8).
- (4) Loosen the self-retaining fastener (9).
- (5) Remove the Air Data Computer (1).
- (6) **NOTE:** If you are performing a cleaning procedure of the PITOT/STATIC 1 or 2 lines, the steps 6 and 7 are not applicable.  
  
Disconnect the union (5) from the ADC static port. Remove and discard the O-ring (3).
- (7) Disconnect the nipple (4) from the ADC total pressure port. Remove and discard the O-ring (2).

EFFECTIVITY: ALL

Air Data Computer - Removal/Installation

Figure 401



EM145AMM341145B.DGN

TASK 34-15-01-400-801-A  
EFFECTIVITY: ALL

### 3. AIR DATA COMPUTER (ADC) - INSTALLATION

#### A. General

(1) This task gives the procedure to install the ADC.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 20-10-03-400-801-A/400	TUBING - INSTALLATION
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 34-13-00-200-803-A/600	PITOT LINES - INSPECTION
AMM TASK 34-13-00-790-802-A/500	PITOT-STATIC SYSTEM 1 - LEAKAGE TEST
AMM TASK 34-13-00-790-803-A/500	PITOT-STATIC SYSTEM 2 - LEAKAGE TEST
AMM TASK 34-15-00-700-802-A/500	ADC SYSTEM - OPERATIONAL TEST
IPC 34-15-01	AIR DATA COMPUTER
S.B.145-32-0036	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	Electronic compartment
214	113CZ	Electronic compartment

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially Available	Torque wrench (For the torque range, refer to figure)	To torque the connections correctly	

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

Not Applicable

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring (2)	IPC 34-15-01	1

(Continued)

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring (3)	IPC 34-15-01	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Electronic compartment

I. Installation (Figure 401)

**SUBTASK 420-002-A**

- (1) **NOTE:** If you are performing a cleaning procedure of the PITOT/STATIC 1 or 2 lines, go to step 3.

Install a new O-ring (2) (IPC 34-15-01). Connect the nipple (4) to the ADC total pressure port.

- (2) Install a new O-ring (3) (IPC 34-15-01). Connect the union (5) to the ADC static port.

- (3) Put the ADC (1) on the aircraft.

**NOTE:** When you install the air data computer in its tray, make sure that the static and total pressure ports stay in the upper part of the air data computer.

- (4) Lock the self-retaining fastener (9).

**CAUTION:** MAKE SURE THAT THE FLEXIBLE TUBE IS NOT TWISTED BEFORE AND AFTER TORQUE APPLICATION.

- (5) Connect the static hose to the union (5) ([AMM TASK 20-10-03-400-801-A/400](#)).

**CAUTION:** MAKE SURE THAT THE FLEXIBLE TUBE IS NOT TWISTED BEFORE AND AFTER TORQUE APPLICATION.

- (6) Connect the pitot hose to the nipple (4) ([AMM TASK 20-10-03-400-801-A/400](#)).

- (7) Do a visual inspection on the hoses that connects to ADC ( [AMM TASK 34-13-00-200-803-A/600](#)).

- (8) Install the electrical connector (8).

- (9) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).

J. Follow-on

**SUBTASK 842-002-A**

- (1) On the Circuit Breaker Panel, close the ADC1 (Location tip: ESSENTIAL DC BUS 1/NAV/ADC1) or ADC2 (Location tip: DC BUS 2/NAV/ADC2) circuit breaker and remove the DO-NOT-CLOSE tag from it.

- (2) Do the PITOT/STATIC System 1 leakage test ( [AMM TASK 34-13-00-790-802-A/500](#)) for ADC 1 installation or the PITOT/STATIC System 2 leakage test ( [AMM TASK 34-13-00-790-803-A/500](#)) for ADC 2 installation.
- (3) Do the ADC System Operational Check ([AMM TASK 34-15-00-700-802-A/500](#)).
- (4) Close access panel 113CZ (AMM MPP 06-41-01/100).
- (5) (Applicable to aircraft POST-MOD. [S.B.145-32-0036](#) ) Remove the safety pin form the NLG-door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).

