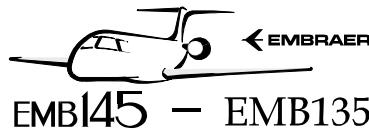## LINEAR ACTUATOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1.   General

   A.   The linear actuators of the ram-air valves are installed in an assembly made up of NACA air inlets/ram air valves.

   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
21-25-03-000-801-A	LINEAR ACTUATOR - REMOVAL	ALL
21-25-03-400-801-A	LINEAR ACTUATOR - INSTALLATION	ALL

TASK 21-25-03-000-801-A
EFFECTIVITY: ALL

2. <u>LINEAR ACTUATOR - REMOVAL</u>

    A.   General

        (1)   This task gives the procedures to remove the ram-air valve linear actuator.

    B.   References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

    C.   Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Forward wing-to-fuselage fairing
191	191FR	Forward wing-to-fuselage fairing

    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	Forward wing-to-fuselage fairing

    I.   Preparation

    SUBTASK 841-002-A

        (1)   Remove the access panel (AMM MPP 06-41-01/100), as applicable:

            –   191EL (LH ram-air valve linear actuator).

            –   191FR (RH ram-air valve linear actuator).

        (2)   On the overhead circuit breaker panel, open the RAM AIR circuit breaker and attach a DO-NOT-CLOSE tag to it (Location tip: ESSENTIAL DC BUS 1/AIR COND/ PNEU/RAM AIR).
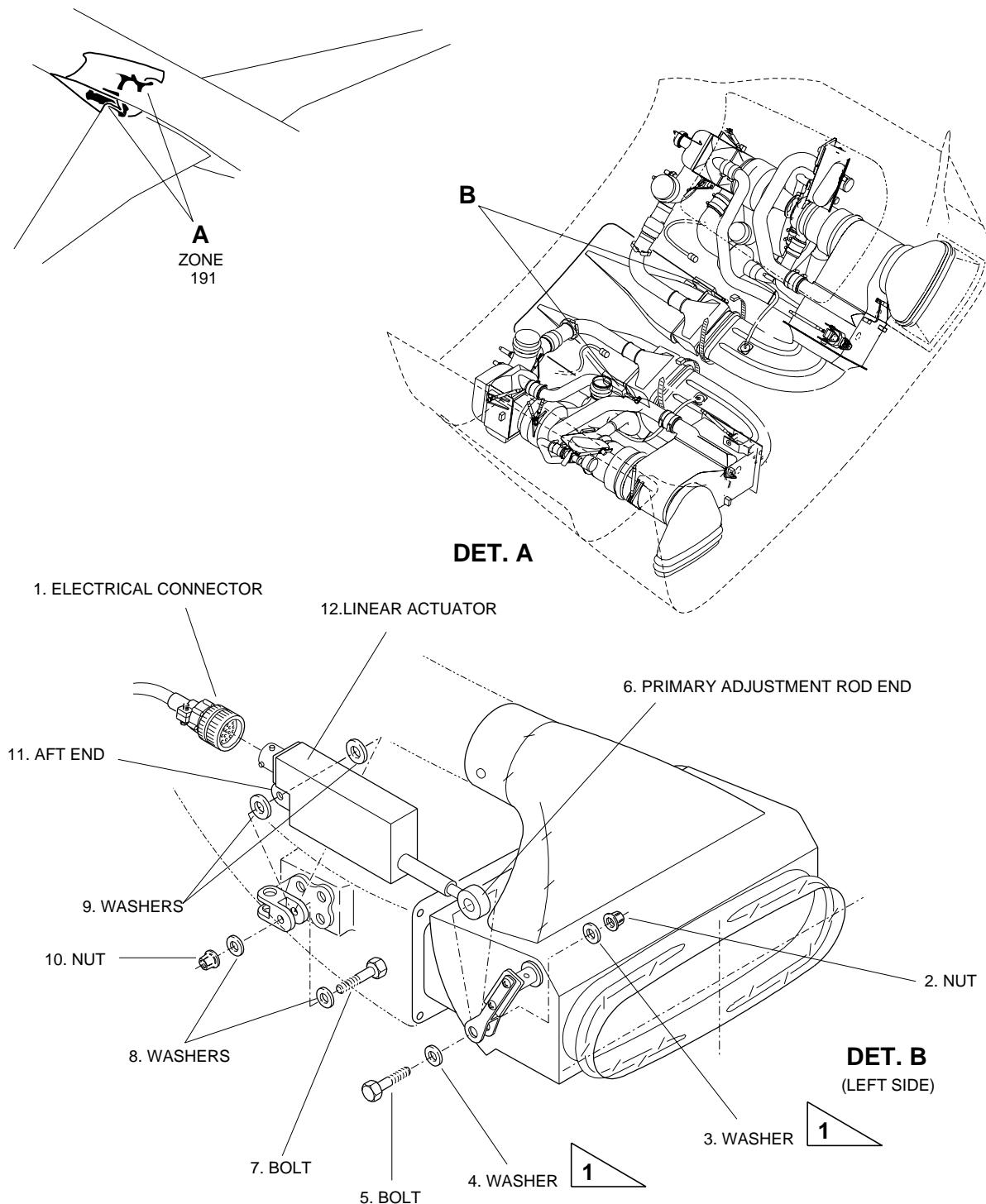
J.   Removal (Figure 401)

SUBTASK 020-002-A

(1)   Disconnect the electrical connector (1).

(2)   Remove the bolt (5), washers (3) and (4) (if applicable), and nut (2) to release the primary-adjustment rod end (6).

(3)   Remove the bolt (7), washers (8) and (9), and nut (10) to release the linear actuator aft end (11).

(4)   Remove the linear actuator (12).

EFFECTIVITY: ALL
Ram-Air Valve Linear Actuator - Removal/Installation
Figure 401

A
ZONE
191

B

DET. A

1. ELECTRICAL CONNECTOR

12. LINEAR ACTUATOR

6. PRIMARY ADJUSTMENT ROD END

11. AFT END

9. WASHERS

10. NUT

8. WASHERS

2. NUT

3. WASHER 1

DET. B
(LEFT SIDE)

7. BOLT

5. BOLT

4. WASHER 1

1 APPLICABLE ONLY TO AIRCRAFT S/N 060 THRU 196.

145AMM210018.MCE B

TASK 21-25-03-400-801-A
EFFECTIVITY: ALL

3. <u>LINEAR ACTUATOR - INSTALLATION</u>

   A. General

   (1) This task gives the procedures to install the ram-air valve linear actuator.

   B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 21-25-01-700-801-A/500	RAM AIR VALVE - OPERATIONAL CHECK
AMM TASK 21-25-03-800-801-A/200	LINEAR ACTUATOR - ADJUSTMENT

   C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Forward wing-to-fuselage fairing
191	191FR	Forward wing-to-fuselage fairing

   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	Forward wing-to-fuselage fairing

   I. Preparation

   SUBTASK 841-003-A

   (1) Make sure that the RAM AIR circuit breaker, on the overhead circuit breaker panel, is open and with a DO-NOT-CLOSE tag attached to it (Location tip: ESSENTIAL DC BUS 1/AIR COND/PNEU/RAM AIR).

   J. Installation (Figure 401)

   SUBTASK 420-002-A

   (1) Put the linear actuator (12) in the installation position.

(2) Attach the primary-adjustment rod end (6) of the linear actuator with the bolt (5), washers (3) and (4) (if applicable), and nut (2).

(3) Attach the aft end (11) of the linear actuator with the bolt (7), washers (8) and (9), and nut (10).

(4) Connect the electrical connector (1).

K. Follow-on

SUBTASK 842-002-A

(1) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tag from the RAM AIR circuit breaker and close it (Location tip: ESSENTIAL DC BUS 1/AIR COND/ PNEU/RAM AIR).

(2) Do the AMM TASK 21-25-03-800-801-A/200, if necessary.

(3) Do the AMM TASK 21-25-01-700-801-A/500.

(4) Install the access panel (AMM MPP 06-41-01/100), as applicable:

– 191EL (LH ram-air valve linear actuator).

– 191FR (RH ram-air valve linear actuator).