

## AILERON ELECTRICAL - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to do the operational check of the solenoid-manifold-shutoff function.
- 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
27-13-00-700-801-A ◆	AILERON SOLENOID-MANIFOLD-SHUT-OFF FUNCTION - OPERATIONAL CHECK	ALL

TASK 27-13-00-700-801-A

EFFECTIVITY: ALL

## 2. AILERON SOLENOID-MANIFOLD-SHUTOFF FUNCTION - OPERATIONAL CHECK

### A. General

- (1) This task gives the procedures to do the operational check of the solenoid-manifold-shutoff function.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
<a href="#">AMM TASK 29-10-00-860-801-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS

### C. Zones and Accesses

Not Applicable

### 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	Cockpit
1	Does the task	Off the aircraft

### I. Preparation

**SUBTASK 841-002-A**

**WARNING: MAKE SURE THAT THERE ARE NO PERSONS AND EQUIPMENT IN THE AILERON TRAVEL AREA.**

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the aileron system.
- (3) Energize the aircraft with the External DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#) ).
- (4) Pressurize the hydraulic system ( [AMM TASK 29-10-00-860-801-A/200](#) ).

- (5) On the Flight Control Panel (Overhead Panel), make sure that the pushbutton lights of the AILERON SHUTOFF SYS 1 and AILERON SHUTOFF SYS 2 are on.
- (6) Make sure that the EICAS display shows the AIL SYS 1 - 2 INOP message.

J. Operationally Check Aileron Solenoid-Manifold-Shutoff Function ([Figure 501](#))

*SUBTASK 710-002-A*

- (1) Do a check of the aileron solenoid-manifold-shutoff function with both system on, as follows:
  - (a) Push the AILERON SHUTOFF SYS 1 and AILERON SHUTOFF SYS 2 pushbuttons, on the Flight Controls Panel.  
Result:
    - 1 The pushbutton lights go off.
    - 2 On the EICAS display, the AIL SYS 1 - 2 INOP caution message goes out of view.
  - (b) Move the left control yoke fully to the left and to the right and then move it to the neutral position.  
Result:
    - 1 The aileron surfaces move freely and no heavy load is felt on the control yoke.
- (2) Do a check of the aileron solenoid-manifold-shutoff function with the hydraulic system 1 off, as follows:
  - (a) Push the AILERON SHUTOFF SYS 1 pushbutton, on the Flight Controls Panel.  
Result:
    - 1 The pushbutton light comes on.
    - 2 The EICAS display shows the AIL SYS 1 INOP caution message.
  - (b) Move the left control yoke fully to the left and to the right and then move it to the neutral position.  
Result:
    - 1 The aileron surfaces move freely and no heavy load is felt on the control yoke.
- (3) Turn on the hydraulic system 1 as follows:
  - (a) Push the AILERON SHUTOFF SYS 1 pushbutton, on the Flight Controls Panel.  
Result:
    - 1 The pushbutton light goes off.
    - 2 On the EICAS display, the AIL SYS 1 INOP caution message goes out of view.
- (4) Do a check of the aileron solenoid-manifold-shutoff function, with the hydraulic system 2 off, as follows:
  - (a) Push the AILERON SHUTOFF SYS 2 pushbutton, on the Flight Controls Panel.  
Result:
    - 1 The pushbutton light comes on.



# AIRCRAFT MAINTENANCE MANUAL

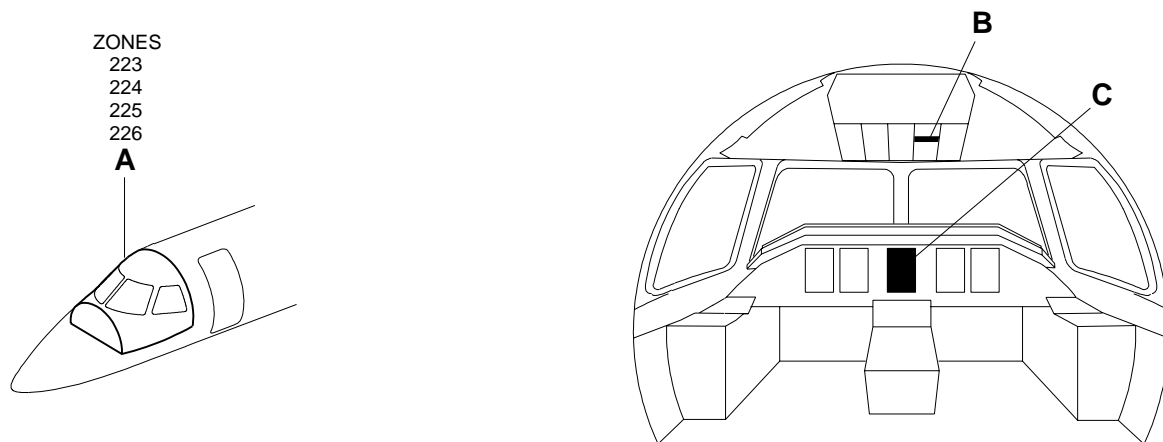
- SUBTASK 842-002-A*

- Copyright © by Embraer S.A. All rights reserved - See title page for details.

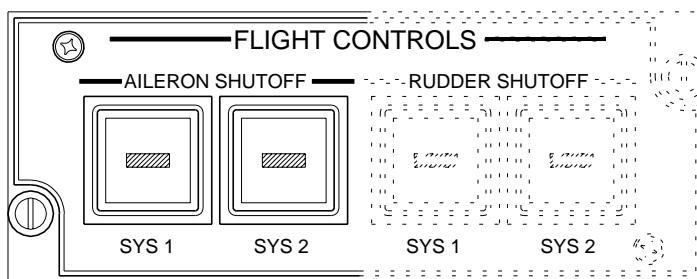
EFFECTIVITY: ALL

EICAS Display and Flight Controls Panel - Location

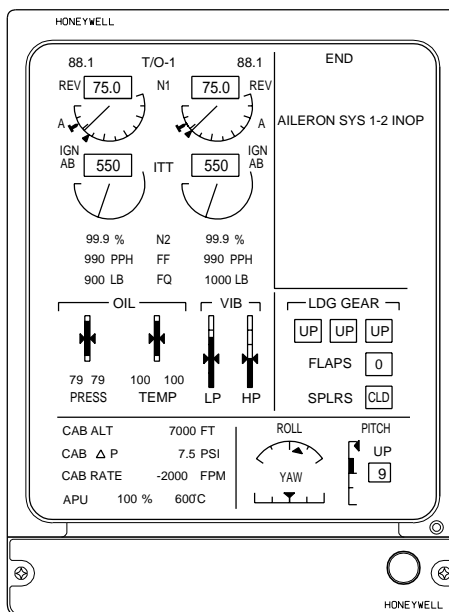
Figure 501



**DET. A**



**DET. B**



**DET. C**

145AMM270023.MCE A

