



B707

FLAP SYSTEM OPERATING MANUAL

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B707

LIST OF REVISIONS
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1	6 OCT 2023
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WARNING:

MAKE SURE THE PATH OF MOVEMENT OF THE FLAP SYSTEM IS FREE OF HUMANS. IF THIS WARNING IS NEGLECTED ACCIDENTS CAN CAUSE SERIOUS BODY HARM OR DEATH.

NOTE:

A MINIMUM OF 2 PERSONS IS MANDATORY TO OPERATE THE FLAP SYSTEM

CAUTION:

MAKE SURE THE PATH OF THE FLAP IS FREE OF OBSTACLES, IF THIS CAUTION IS NEGLECTED ACCIDENTS CAN HAPPEN AND COULD RESULT IN STRUCTURAL DAMAGE OF AIRCRAFT COMPONENTS AND SKIN

NOTE:

WITHOUT PROPER SYSTEM KNOWLEDGE/TRAINING THE USE OF THE FLAP SYSTEM IS PROHIBITED AND COULD CAUSE TO INCIDENTS AND ACCIDENTS.

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1. GENERAL – SYSTEM DESCRIPTION AND OPERATION

- a. This manual contains the procedure how to operate the flap system in accordance with all safety measurements.
- b. Take note that this is NOT a system operating description. See therefore following related documents:

Ref.	Title
FLAP PROJECT -	CONNECTION OVERVIEW
FLAP PROJECT -	SWITCH_CASE – SOFTWARE & SYSTEM OPERATION MANUAL & DESCRIPTION
FLAP PROJECT -	SSM (SYSTEM SCHEMATIC MANUAL) – V8

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2. ENERGIZING THE (FSEU) SYSTEM

- a. Open panel: P1 (SEE FIGURE 1)



Figure 1 - Panel P1

- b. To ensure safety, go to the 115 V AC generator room and turn on the light of the room. This ensures that the outside red warning light is turned on. (SEE FIGURE 2)



Figure 2 - RED WARNING LIGHT

- c. Make sure the 115 AC is ON. Go to the 115 V AC room and press on the bottom om the generator / or on the main panel on the GREEN button, the generator is now turned on.
Make sure the correct values are displayed: **115 V AC / 400 Hz**.
(SEE FIGURE 3)

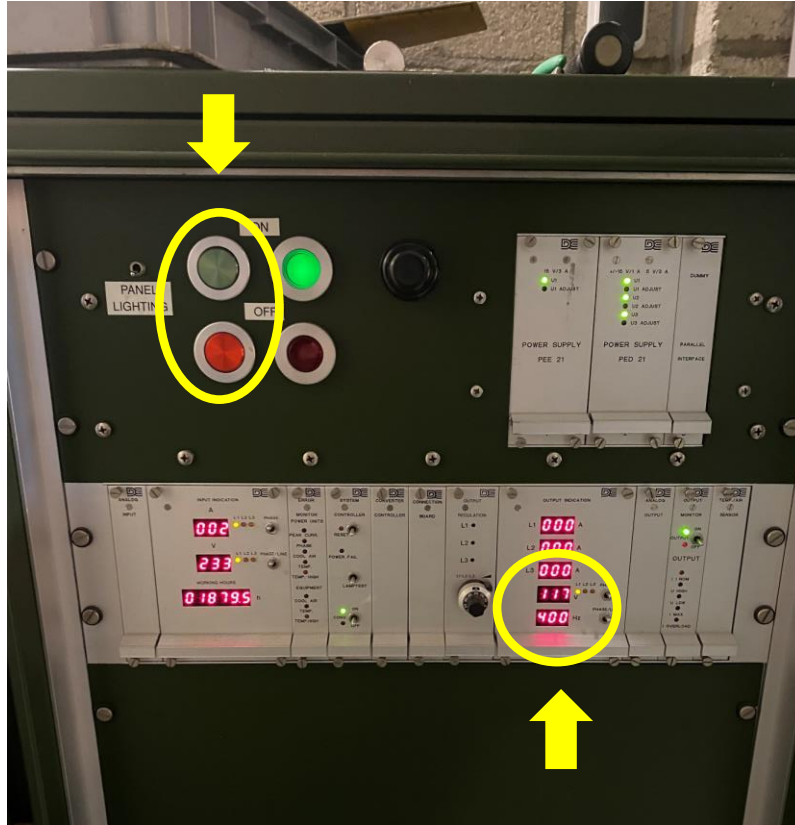


Figure 3 - 115V AC GENERATOR DISPLAY PANEL

- d. Make sure the 115 V AC is energizing the B707. Go to the interior of the B707 and press on the top right corner of the panel the GREEN BUTTON.
Note: an indication of an energized B707 is that the cabin lights are turned ON.
(SEE FIGURE 4)

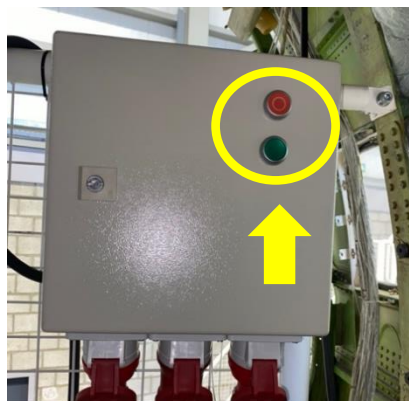
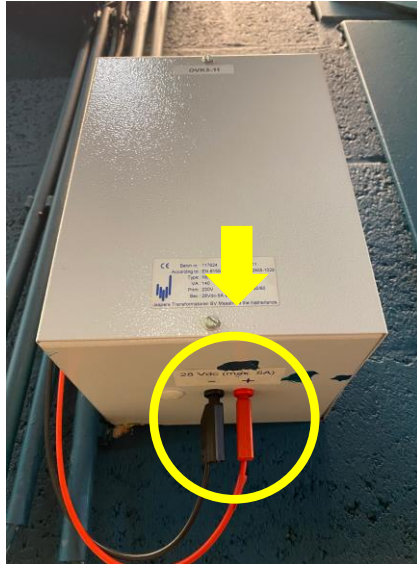


Figure 4 - ENERGIZING THE B707

- e. Now, turn on the 28V DC flap system. Look for the box on the wall and make sure the two connectors (black and red) are plugged in. To turn on the 28 V DC to the flap system, turn the switch button anti-clockwise. (SEE FIGURE 5 & 6)



Figuur 6 - 28V DC BOX



Figuur 5 - CONTROL PANEL

- f. The system is ready for operation. Continue to “CHAPTER 3 - SYSTEM OPERATION”

NOTE: A MINIMUM OF 2 PERSONS IS MANDATORY TO OPERATE THE FLAP SYSTEM



3. SYSTEM OPERATION

a. Safety check before operation

Make sure:

- The area under the INB FLP is clearly marked and secured.
- Make sure the EMERGENCY UNIT can rotate freely.
- Make sure no maintenance is being done on the FLP System
- You have read and understood the safety precautions and warnings and all related documentations.

WARNING:

MAKE SURE THE PATH OF MOVEMENT OF THE FLAP SYSTEM IS FREE OF HUMANS. IF THIS WARNING IS NEGLECTED ACCIDENTS CAN CAUSE SERIOUS BODY HARM OR DEATH.

NOTE:

A MINIMUM OF 2 PERSONS IS MANDATORY TO OPERATE THE FLAP SYSTEM

CAUTION:

MAKE SURE THE PATH OF THE FLAP IS FREE OF OBSTACLES, IF THIS CAUTION IS NEGLECTED ACCIDENTS CAN HAPPEN AND COULD RESULT IN STRUCTURAL DAMAGE OF AIRCRAFT COMPONENTS AND SKIN

NOTE:

WITHOUT PROPER SYSTEM KNOWLEDGE/TRAINING THE USE OF THE FLAP SYSTEM IS PROHIBITED AND COULD CAUSE TO INCIDENTS AND ACCIDENTS.

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b. StartUp procedure

1. Set the flap lever to the zero position.
2. Make sure that the area is safe to operate and visually check with at least two colleagues for safe operation.
3. Press the operating button. The flaps will start moving upward.

NOTE:

If previous requirements were accomplished but no movement occurred, then this means that the flaps are at zero degrees and the startup procedure is finished. Continue to step 3d.

4. The flaps will stop automatically if the zero degrees position is reached.
5. StartUp procedure finished. Now you can continue to step **3d**.

c. Main operating procedure

1. Set the flap lever to the desired flap position.
2. Make sure that the area is safe to operate and visually check with at least two colleagues for safe operation.
3. Press the operating button. The flaps will start moving towards the selected position.

NOTE:

If you release the operating button, you can repress it afterwards and the system will continue operation until the selected position is reached.

4. The flaps will stop moving automatically when the selected position is reached.

WARNING:

AFTER OPERATION, PAUSE TIME IS MANDATORY IN ACCORDANCE WITH THE TIME GIVEN IN THE TABEL ON THE NEXT PAGE, OHTERWISE OVERHEAT OF THE MOTOR CAN HAPPEN

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d. LIST OF PAUSE TIME AFTER MOVEMENT OF FLAPS

FROM DEGREE:	TO DEGREE:	REQUIRED PAUSE TIME
0	15	5 MIN
0	30	15 MIN
0	45	20 MIN
15	0	8 MIN
15	30	5 MIN
15	45	15 MIN
30	0	18 MIN
30	15	8 MIN
30	45	8 MIN
45	0	30 MIN
45	15	18 MIN
45	30	8 MIN

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e. Shutdown procedure / de-energizing the system

1. Now, turn OFF the 28V DC flap system. To turn OFF the 28 V DC to the flap system, turn the switch button clockwise and make sure it is on the OFF POSITION (. SEE FIGURE 4 and 5.
2. Make sure the 115 V AC is de-energized in the B707. Go to the interior of the B707 and press on the top right corner of the panel the RED BUTTON. Note: an indication of an de-energized B707 is that the cabin lights are turned off. SEE FIGURE 3
3. Now go to the 115 V AC generator room and press on the bottom of the generator / or on the main panel on the RED button, the generator is now turned off. Make sure the there are no values shown on the display. SEE FIGURE 2.
4. Turn OFF the light of the 115 V AC generator room. This ensures that the outside red warning light is turned OFF. SEE FIGURE 1.
5. The system is successfully de-energized.
6. Close panel: P1

NOTE: FLAP LEVER MUST BE IN THE ZERO POSITION, OTHERWISE THE LEVER BLOCKS THE PANEL FROM CLOSING.

————— END OF TASK —————

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