

## SERVICE-DOOR WARNING MICROSWITCHES - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to do the operational test and adjustment of the service-door warning microswitches.
- B. These procedures are applicable to the four microswitches of the service door.
- C. The microswitches are installed in the service door, as follows:
  - Two microswitches in the track assembly;
  - One microswitch in each of the two lock box assemblies.
- 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 |
|----------------------|-------------------------------------------------------|-------------|
| 52-74-01-700-801-A ♦ | SERVICE DOOR WARNING MICRO-SWITCHES - FUNCTIONAL TEST | ALL         |
| 52-74-01-820-801-A   | SERVICE DOOR WARNING MICRO-SWITCHES - ADJUSTMENT      | ALL         |

TASK 52-74-01-700-801-A

EFFECTIVITY: ALL

## 2. SERVICE DOOR WARNING MICROSWITCHES - FUNCTIONAL TEST

### A. General

- (1) The function of this test is to make sure that the service-door warning microswitches are serviceable.

### B. References

| REFERENCE                       | DESIGNATION                                                |
|---------------------------------|------------------------------------------------------------|
| AMM SDS 23-41-00/1              |                                                            |
| AMM TASK 20-40-01-860-801-A/200 | ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE |
| S.B. 145-52-0036                | -                                                          |
| WM 52-70-52                     | -                                                          |

### C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION     |
|------|------------|--------------|
| 821  |            | Service door |

### D. Tools and Equipment

| ITEM    | DESCRIPTION        | PURPOSE             | QTY |
|---------|--------------------|---------------------|-----|
| GSE 050 | Digital multimeter | To check continuity |     |

### 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        | In the passenger cabin                             |
| 1   | Helps the technician | Does the check of the EICAS display in the cockpit |

### I. Preparation

SUBTASK 841-002-A

**WARNING: MAKE SURE THAT THE SENSORS (PITOT 1 - TAT 1/AOA 1, PITOT 3 AND PITOT 2 - TAT 2/AOA 2), PUSHBUTTONS ON THE OVERHEAD PANEL ARE SET TO OFF.**

- (1) Energize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Connect the ramp interphone to permit communication between the mechanics ([AMM SDS 23-41-00/1](#)).
- (3) Make sure that these doors are closed and locked:
  - Forward Electronic - Compartment Door
  - Cockpit Underfloor Access Hatch
  - Main Door
  - Passenger - Cabin Escape Hatches
  - Baggage Door
  - Rear Electronic - Compartment Access Hatch
  - Fueling Panel Door
- (4) Open the N2 SIGNAL 1A, 2A, 1B and 2B circuit breakers, on the circuit breaker panel.
- (5) Open the AIR/GND A, B, C and D circuit breakers, on the circuit breaker panel.

J. Functionally Check Service Door Warning Microswitches ([Figure 501](#))

*SUBTASK 720-002-A*

- (1) Do the functional test as follows:

NOTE: There is a delay of 4 to 5 seconds between the locking of the door and the indications shown on the EICAS display.

- (a) Open the service door and monitor the indication on the EICAS display.

Result:

1

The EICAS display shows this warning message:

- SERVICE DOOR OPN.

The MFD shows:

- DOOR OPEN indication (in red).

- A red square that shows the Service Door.

- (b) Close and lock the service door and monitor the EICAS display.

Result:

1

On the EICAS display, the warning message below goes out of view:

- SERVICE DOOR OPN.

On the MFD:

- DOOR OPEN indication goes out of view.

- The red square that shows the service door becomes green.

- (c) For aircrafts PRE-MOD. [S.B. 145-52-0036](#) do as follows:

1. Open the service door, disconnect connectors P7198/J7198 and do a check for continuity between pins M and L of connector P7198, related to microswitch S7276 (WM 52-70-52).
    - There must not be continuity between pins M and L of connector P7198.
  2. Do a check for continuity between pins K and J of connector P7198, related to microswitch S7275 (WM 52-70-52).
    - There must not be continuity between pins K and J of connector P7198.
  3. Do a check for continuity between pins H and G of connector P7198, related to microswitch S7246 (WM 52-70-52).
    - There must not be continuity between pins H and G of connector P7198.
  4. Do a check for continuity between pins B and A of connector P7198, related to microswitch S7245 (WM 52-70-52).
    - There must not be continuity between pins B and A of connector P7198.
- (d) For aircrafts POST-MOD. [S.B. 145-52-0036](#) do as follows:
1. Open the service door, disconnect connectors P7198/J7198 and do a check for continuity between pins M and L of connector P7198, related to microswitch S7276. Refer to Figure 501, sheet 2.
    - There must not be continuity between pins M and L of connector P7198.
  2. Do a check for continuity between pins L and J of connector P7198, related to microswitch S7275. Refer to Figure 501, sheet 2.
    - There must not be continuity between pins L and J of connector P7198.
  3. Do a check for continuity between pins J and G of connector P7198, related to microswitch S7246. Refer to Figure 501, sheet 2.
    - There must not be continuity between pins J and G of connector P7198.
  4. Do a check for continuity between pins G and A of connector P7198, related to microswitch S7245. Refer to Figure 501, sheet 2.
    - There must not be continuity between pins G and A of connector P7198.

K. Follow-on

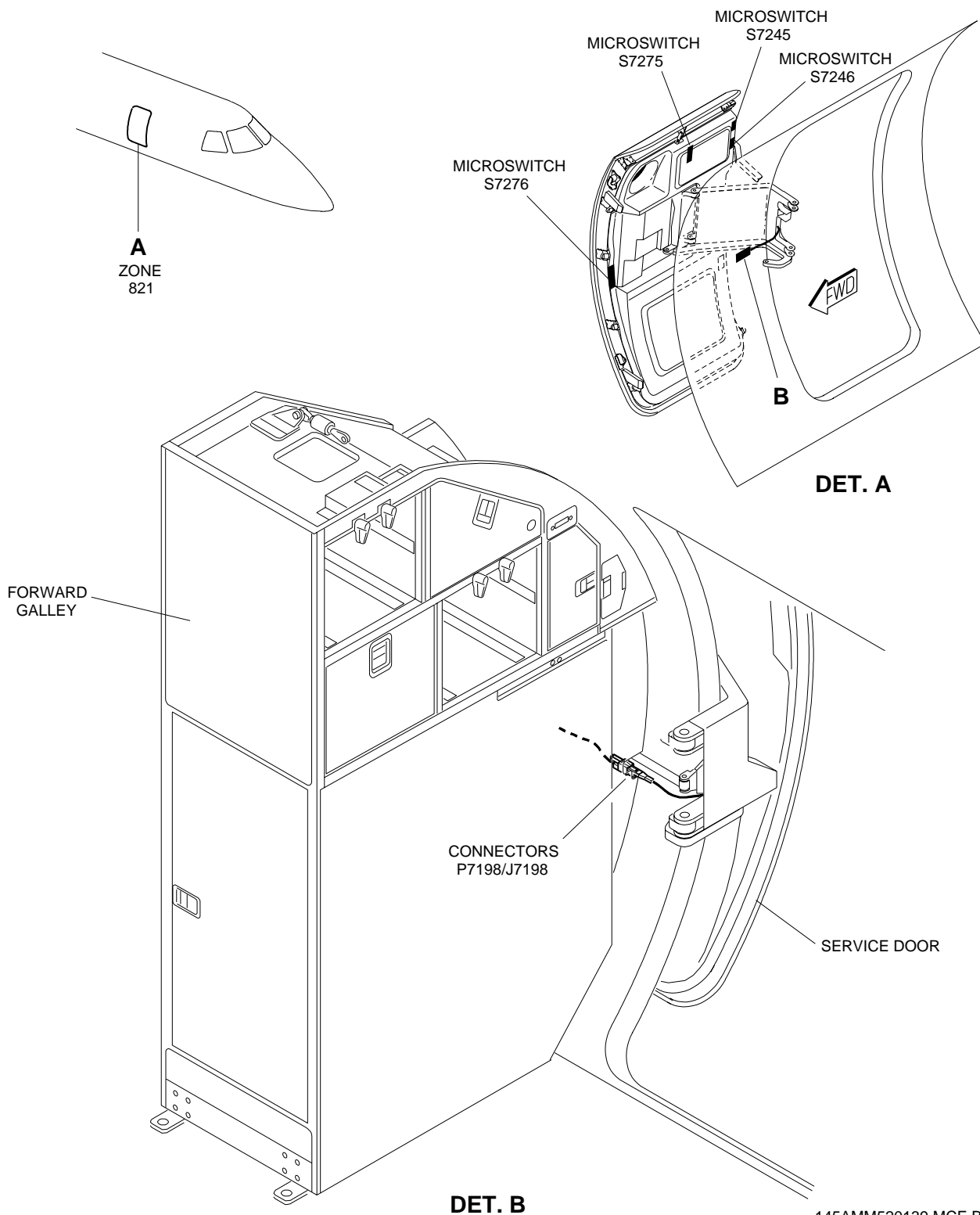
*SUBTASK 842-002-A*

- (1) Deenergize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#) ).
- (2) Disconnect the ramp interphone ( [AMM SDS 23-41-00/1](#) ).
- (3) Connect connectors P7198/J7198.
- (4) On the circuit breaker panel, close the N2 SIGNAL 1A, 2A, 1B, 2B, AIR/GND A, B, C, and D circuit breakers.

EFFECTIVITY: ALL

Service Door - Warning Microswitches

Figure 501 - Sheet 1

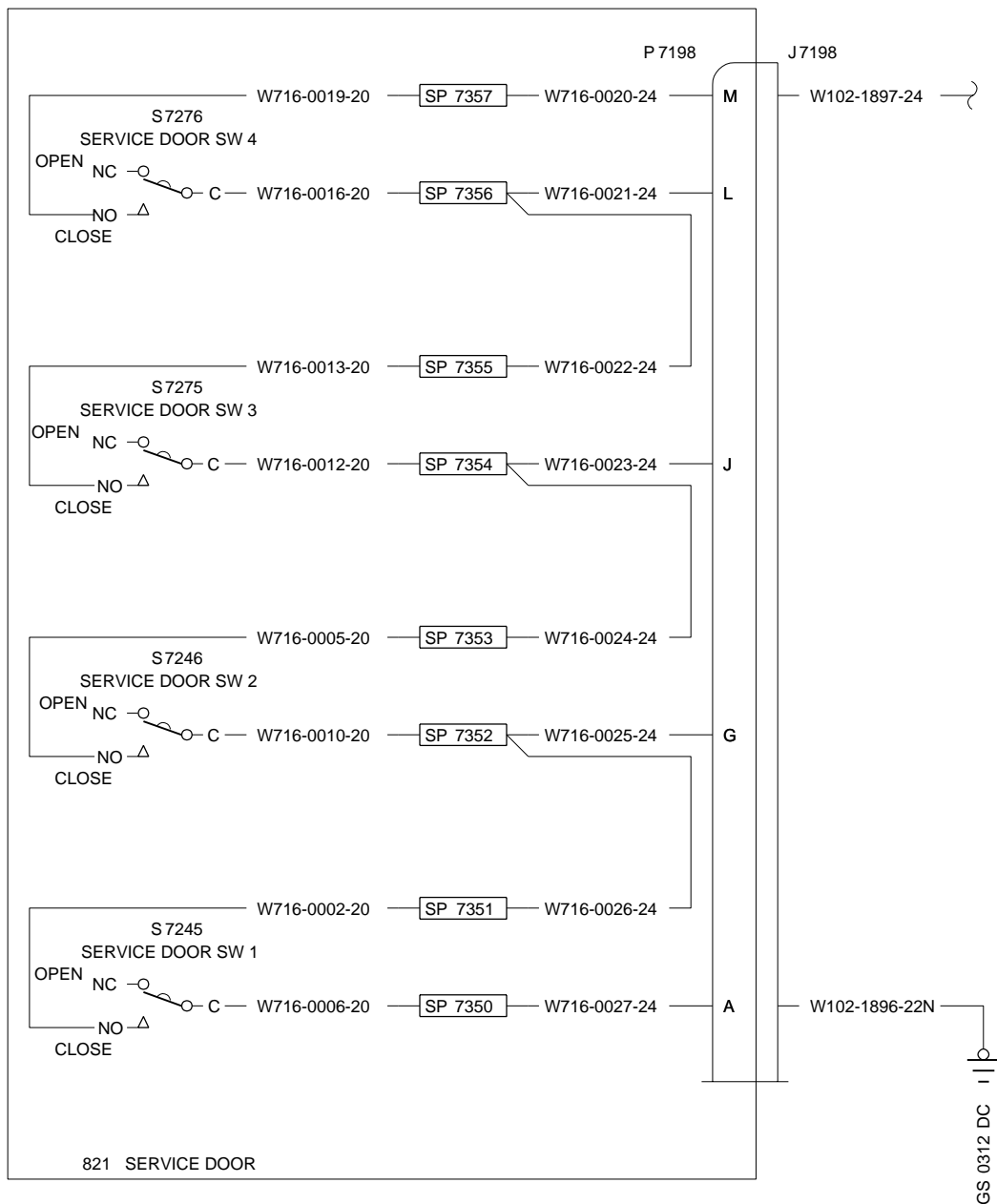


145AMM520139.MCE B

EFFECTIVITY: ALL

Service Door - Warning Microswitches

Figure 501 - Sheet 2



145AMM520544.MCE

TASK 52-74-01-820-801-A

EFFECTIVITY: ALL

### 3. SERVICE DOOR WARNING MICROSWITCHES - ADJUSTMENT

#### A. General

- (1) This section gives the procedures to do the adjustment of the microswitches of the warning system of the service door.
- (2) To adjust the microswitches of the warning system of the service door, you must correct their positions as follows:
  - Microswitches of the track assembly: Correct their positions in relation to the microswitch actuating pin or to the cam;
  - Microswitches of the lock box assemblies: Correct their positions in relation to the locks.

#### B. References

| REFERENCE                       | DESIGNATION                                          |
|---------------------------------|------------------------------------------------------|
| AMM MPP 06-45-00/100            | - COMPONENT LOCATION                                 |
| AMM TASK 52-74-01-000-801-A/400 | SERVICE DOOR WARNING MICROSWITCHES - REMOVAL         |
| AMM TASK 52-74-01-400-801-A/400 | SERVICE DOOR WARNING MICROSWITCHES - INSTALLATION    |
| AMM TASK 52-74-01-700-801-A/500 | SERVICE DOOR WARNING MICROSWITCHES - FUNCTIONAL TEST |

#### C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION     |
|------|------------|--------------|
| 821  |            | Service door |

#### 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 | Inside the passenger cabin |

I. Preparation

*SUBTASK 841-003-A*

- (1) Open the service door.
- (2) Remove lining panels 821AW, 821BW, and 821CW ( [AMM MPP 06-45-00/100](#)).

J. Adjustment ([Figure 502](#))

*SUBTASK 820-002-A*

- (1) Close and lock the service door.
- (2) Adjust the microswitch S7245 of the track assembly as follows:
  - (a) Loosen the bolt and screw that attach the microswitch support.
  - (b) Slowly move the microswitch support in the direction of the microswitch actuating pin.
  - (c) Stop the movement immediately when you hear the CLICK of the microswitch (operation indication).
  - (d) Tighten the screw and bolt to attach the microswitch support.
- (3) Adjust the microswitch S7246 of the track assembly as follows:
  - (a) Loosen the bolt and screw that attach the microswitch support.
  - (b) Slowly move the microswitch support in the cam direction.
  - (c) Stop the movement immediately when you hear the CLICK of the microswitch (operation indication).
  - (d) Tighten the screw and bolt to attach the microswitch support.
- (4) Adjust the microswitch S7275 or S7276 of the lock box assemblies as follows:
  - (a) Loosen the two screws that attach the microswitch.
  - (b) Slowly move the microswitch in the lock direction.
  - (c) Stop the movement immediately when you hear the CLICK of the microswitch (operation indication).
  - (d) Tighten the two screws to attach the microswitch.
- (5) Open the service door.

K. Follow-on

*SUBTASK 842-003-A*

- (1) Do the operational test of the microswitches of the Service-Door Warning System ( [AMM TASK 52-74-01-700-801-A/500](#)) and if necessary, replace the affected microswitch ( [AMM TASK 52-74-01-000-801-A/400](#)) and ( [AMM TASK 52-74-01-400-801-A/400](#)).

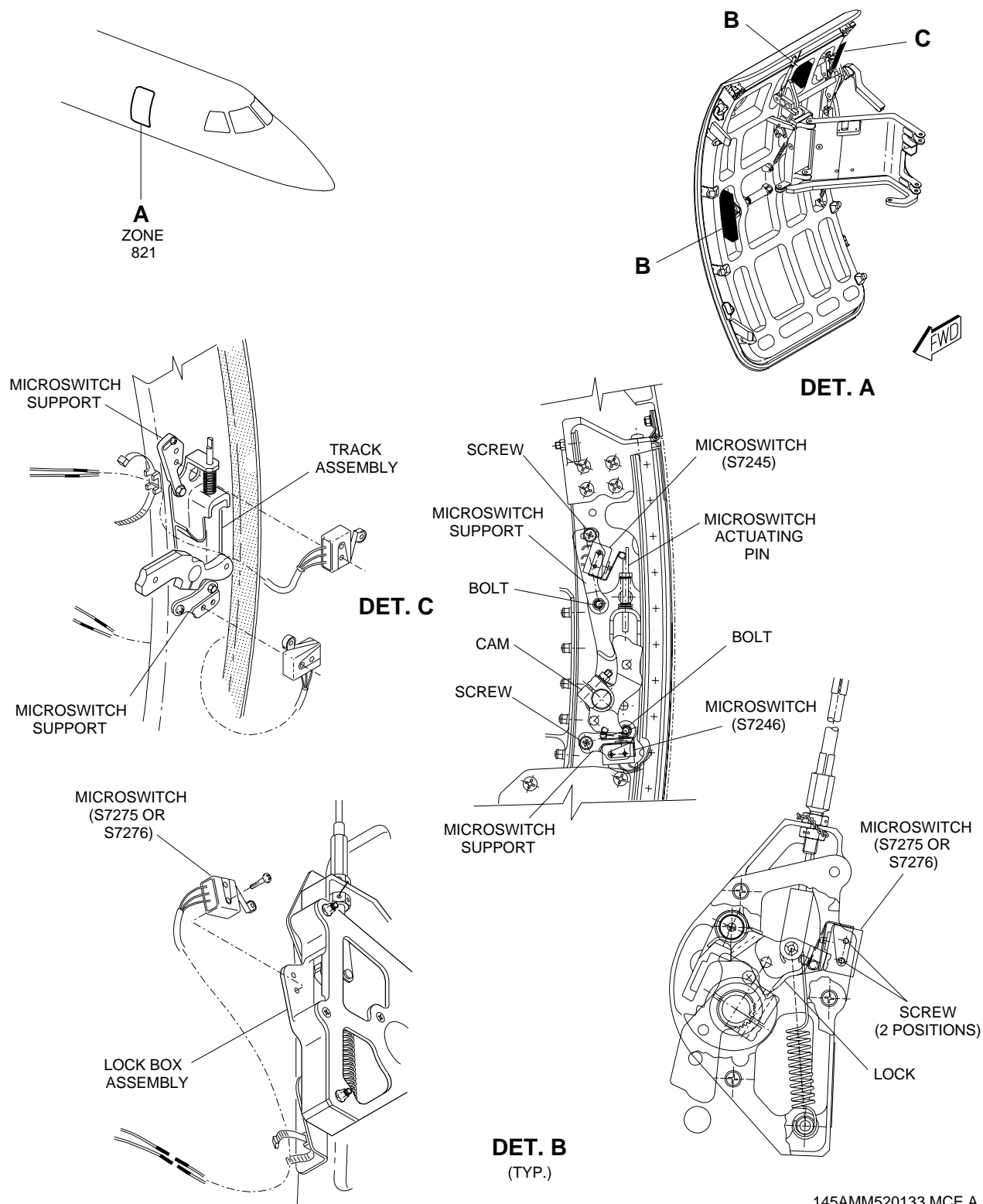


- (2) Install lining panels 821AW, 821BW, and 821CW ( [AMM MPP 06-45-00/100](#)).
- (3) Close the service door.

EFFECTIVITY: ALL

Warning Microswitches - Adjustment

Figure 502



145AMM520133.MCE A