

## MAIN-DOOR ACTUATING AND LOCKING MECHANISM - SERVICING

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

### 1. General

- A. This section gives the procedures to lubricate the elevation cams, elevation cam rollers, folding-flap actuating cams, folding-flap actuating cam rollers, and connecting cables of the main door.
- 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                  |
|----------------------|---|------------------------------|
| 52-11-00-600-801-A ◆ | MAIN-DOOR ACTUATING AND LOCKING MECHANISM - LUBRICATION | AIRCRAFT WITH AIRSTAIRS DOOR |

TASK 52-11-00-600-801-A

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

## 2. MAIN-DOOR ACTUATING AND LOCKING MECHANISM - LUBRICATION

### A. General

- (1) The function of this procedure is to make sure that the door internal mechanism will operate correctly and the door will move freely. This makes the opening/closing operations easier.

### B. References

| REFERENCE                       | DESIGNATION                           |
|---------------------------------|---------------------------------------|
| AMM SDS 52-10-00/1              |                                       |
| AMM TASK 25-23-04-000-801-A/400 | MAIN-DOOR LINING PANEL - REMOVAL      |
| AMM TASK 25-23-04-400-801-A/400 | MAIN-DOOR LINING PANEL - INSTALLATION |
| AMM TASK 52-11-10-000-801-A/400 | MAIN DOOR CABLES - REMOVAL            |
| AMM TASK 52-11-10-400-801-A/400 | MAIN DOOR CABLES - INSTALLATION       |
| AMM TASK 53-21-02-600-801-A/300 | MAIN-DOOR FRAME ROLLERS - LUBRICATION |
| S.B.145-52-0021                 | -                                     |
| S.B.145-52-0024                 | -                                     |

### C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION             |
|------|------------|----------------------|
| 811  | -          | Passenger cabin - LH |

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

| ITEM                   | DESCRIPTION | PURPOSE                    | QTY |
|------------------------|-------------|----------------------------|-----|
| Commercially available | Brush       | To lubricate the main door | AR  |

### F. Consumable Materials

| SPECIFICATION<br>(BRAND) | DESCRIPTION                   | QTY |
|--------------------------|-------------------------------|-----|
| MIL-G-46886              | Molykote grease               | AR  |
| Mobil SHC 100            | Mobil grease SHC 100          | AR  |
| MIL-G-23827B             | Aeroshell grease 7            | AR  |
| MIL-PRF-81309            | Lubrication Oil LPS-1         | AR  |
| Tiolon A20               | Dry PTFE Solid Film Lubricant | AR  |

### G. Expandable Parts

Not Applicable

H. Persons Recommended

| QTY | FUNCTION      | PLACE            |
|-----|---------------|------------------|
| 1   | Does the task | On the main door |

I. Preparation

*SUBTASK 841-002-A*

- (1) Open the main door ([AMM SDS 52-10-00/1](#)).
- (2) Remove the lining panels of the main door ( [AMM TASK 25-23-04-000-801-A/400](#)).

J. Lubrication of the Standard Main-Door Actuating and Locking Mechanism

*SUBTASK 640-002-A*

- (1) Lubrication of the main-door elevation cams ([Figure 301](#)).

**CAUTION:** DO NOT APPLY LUBRICANTS OR EQUIVALENT PRODUCTS TO THE INTERFACE BETWEEN THE DOOR AND THE FUSELAGE.

- (a) Lubricate all the internal surface of the elevation cams with Aeroshell grease 7.
- (b) Lubricate the actuating external handle with Tiolon A20, Dry PTFE Solid Film lubricant.

- (2) Lubrication of the main-door elevation cam rollers ([Figure 301](#)).

**CAUTION:** FOR THE LUBRICATION, THE INTERFACE BETWEEN THE BOLTS AND THE BUSHINGS MUST BE CLEAN.

- (a) Lubricate the interface between the bolts and the bushings that run in the elevation cams.

- (3) Lubrication of the main-door folding flap actuating cams ([Figure 302](#)).

- (a) Lubricate all the internal surface of the folding flap actuating cams with Aeroshell grease 7.

- (4) Lubrication of the main-door folding-flap actuating-cam rollers ([Figure 302](#)).

**CAUTION:** FOR THE LUBRICATION, THE INTERFACE BETWEEN THE SPACERS AND THE BUSHINGS MUST BE CLEAN.

- (a) Lubricate the interface between the spacers and the bushings that run in the folding flap actuating cams.

- (5) Lubrication of the main-door connecting cables ([Figure 303](#), [Figure 304](#), and [Figure 305](#)).

- (a) For connecting cables without protective boots, do as follows ([Figure 303](#) and [Figure 304](#)):

- 1 Remove the internal/external handle and lock box cables ( [AMM TASK 52-11-10-000-801-A/400](#)).

- 2 On aircraft POST-MOD. [S.B.145-52-0021](#) (with cable cover), remove the cable covers ( [AMM TASK 52-11-10-000-801-A/400](#)).
- 3 Clean the internal/external handle and lock box cables, and their conduits, with dry compressed air.
- 4 Apply LPS-1 or similar lubricant into the conduits of the internal/external handle and lock box cables, and make sure that it goes into them fully.
- 5 Install the internal/external handle and lock box cables ( [AMM TASK 52-11-10-400-801-A/400](#)).
- 6 On aircraft POST-MOD. [S.B.145-52-0021](#) (with cable cover), fully fill the cable cover with Molykote grease through its lateral opening, and install the cable covers ( [AMM TASK 52-11-10-400-801-A/400](#)).

- (b) For connecting cables with protective boots, do as follows ([Figure 305](#)):

**CAUTION:** BE CAREFUL TO PREVENT DAMAGE TO THE PROTECTIVE BOOT.

- 1 Loosen the tiedown straps of the protective boots.
- 2 With a syringe, fully fill the protective boots (8 positions) (refer to DET. C, DET. D, DET. E, and DET. F) with Aeroshell grease 7 for aircraft POST-MOD. [S.B.145-52-0024](#) or Mobil grease SHC 100 for aircraft POST-MOD. [S.B. 145-52-0046](#), through the free end of the protective boot.

**NOTE:** For new connecting cables, fully fill the protective boots with Mobil grease SHC 100.

- 3 Attach new tiedown straps (8 positions) to the protective boots.

- (6) Lubricate the main-door rubber seal and the frame rubber seal with Tiolon A20, Dry PTFE Solid Film lubricant ([Figure 306](#)).

- (7) Lubricate the frame roller ( [AMM TASK 53-21-02-600-801-A/300](#)).

K. Follow-on

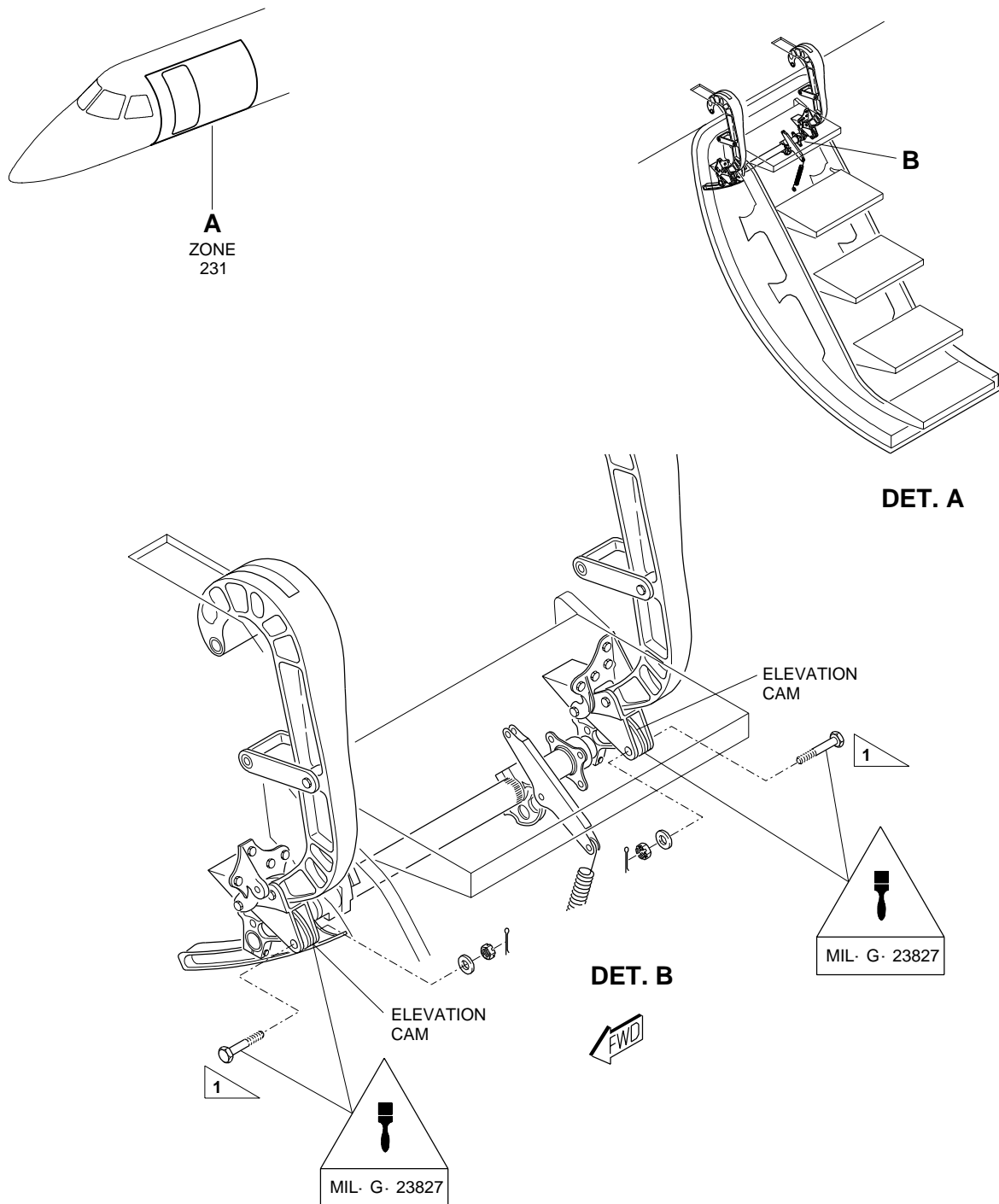
*SUBTASK 842-002-A*

- (1) Install the main-door lining panels ( [AMM TASK 25-23-04-400-801-A/400](#)).
- (2) Close the main door ([AMM SDS 52-10-00/1](#)).

**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

Lubrication of Main-Door Elevation Cams and Elevation Cam Rollers

Figure 301



1

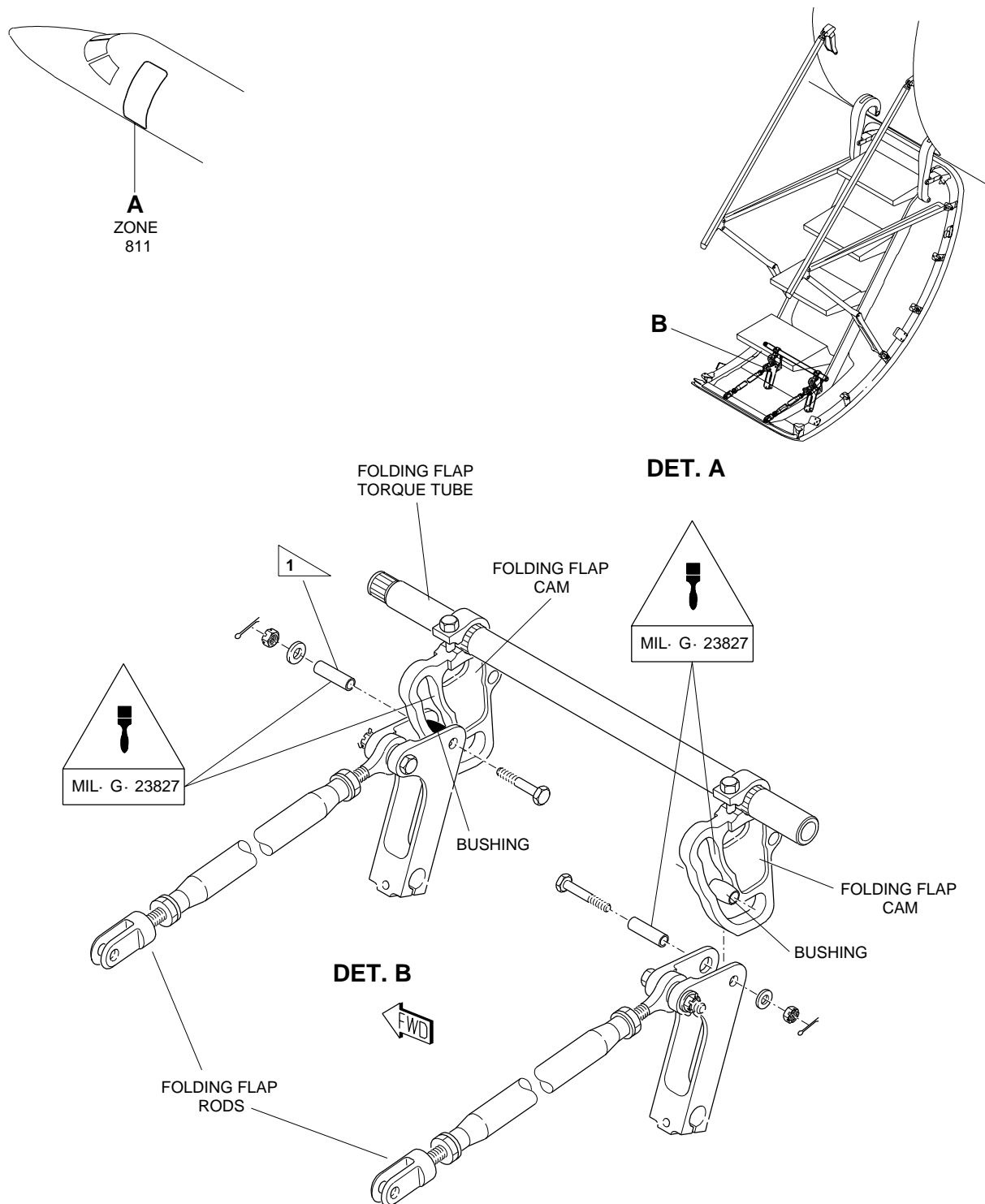
LUBRICATE THE INTERFACE BETWEEN THE BOLT AND THE BUSHING.

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**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

Lubrication of Main-Door Folding-Flap Cams and Folding Flap Cam Rollers

Figure 302



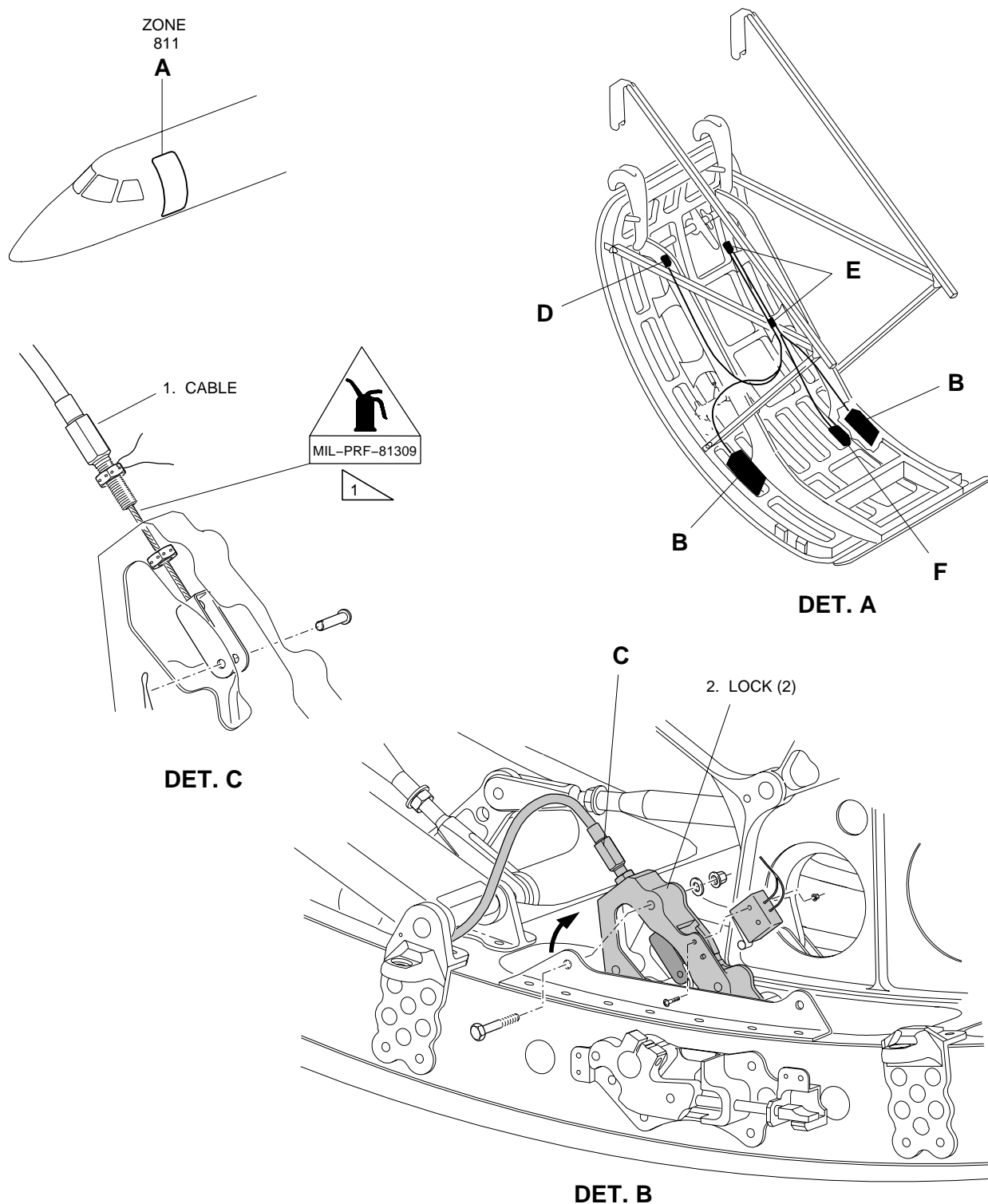
**1** LUBRICATE THE INTERFACE BETWEEN THE SPACER AND THE BUSHING.

145AMM520305.MCE A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

Figure 303 - Sheet 1

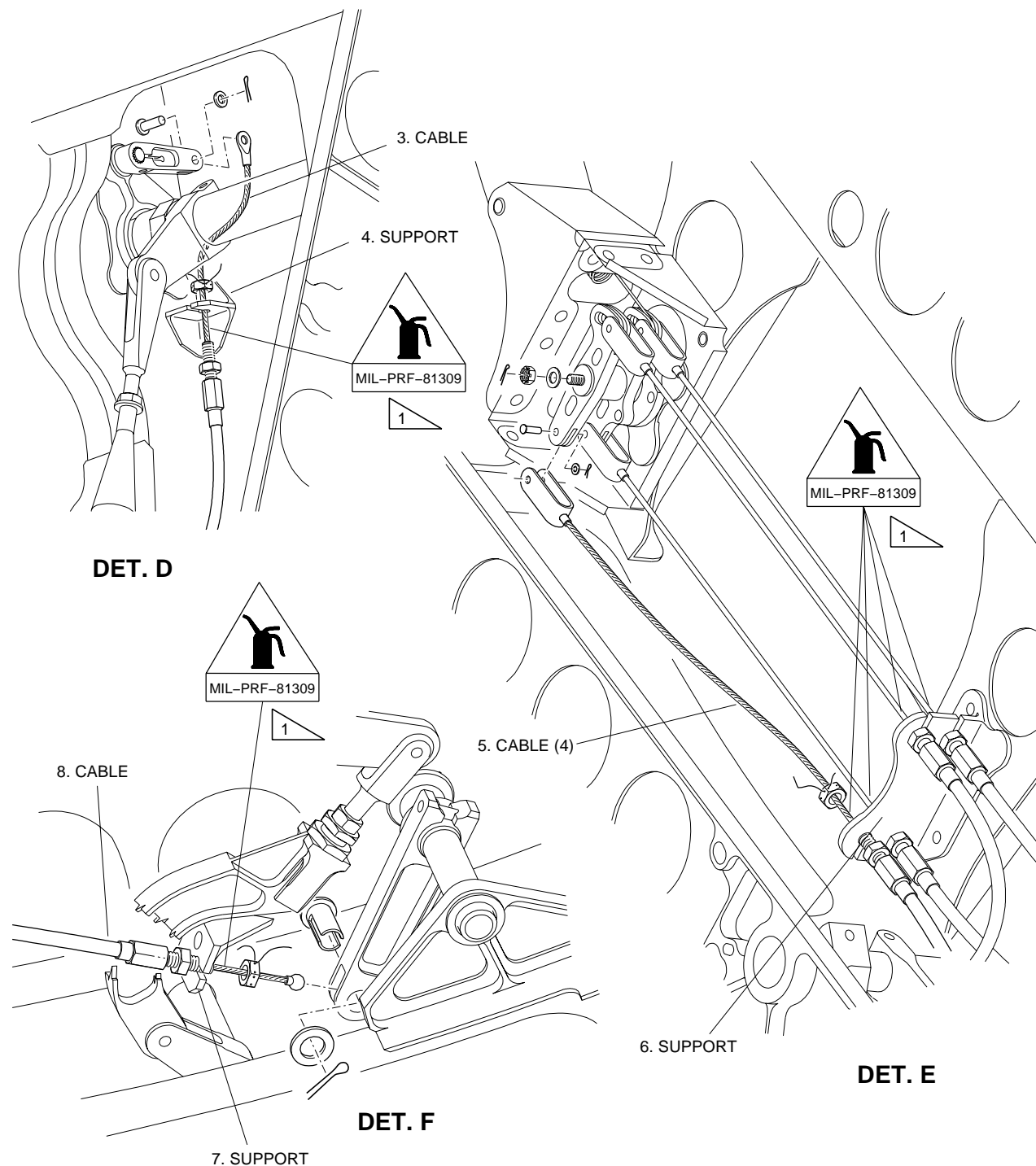


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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

Figure 303 - Sheet 2



1 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

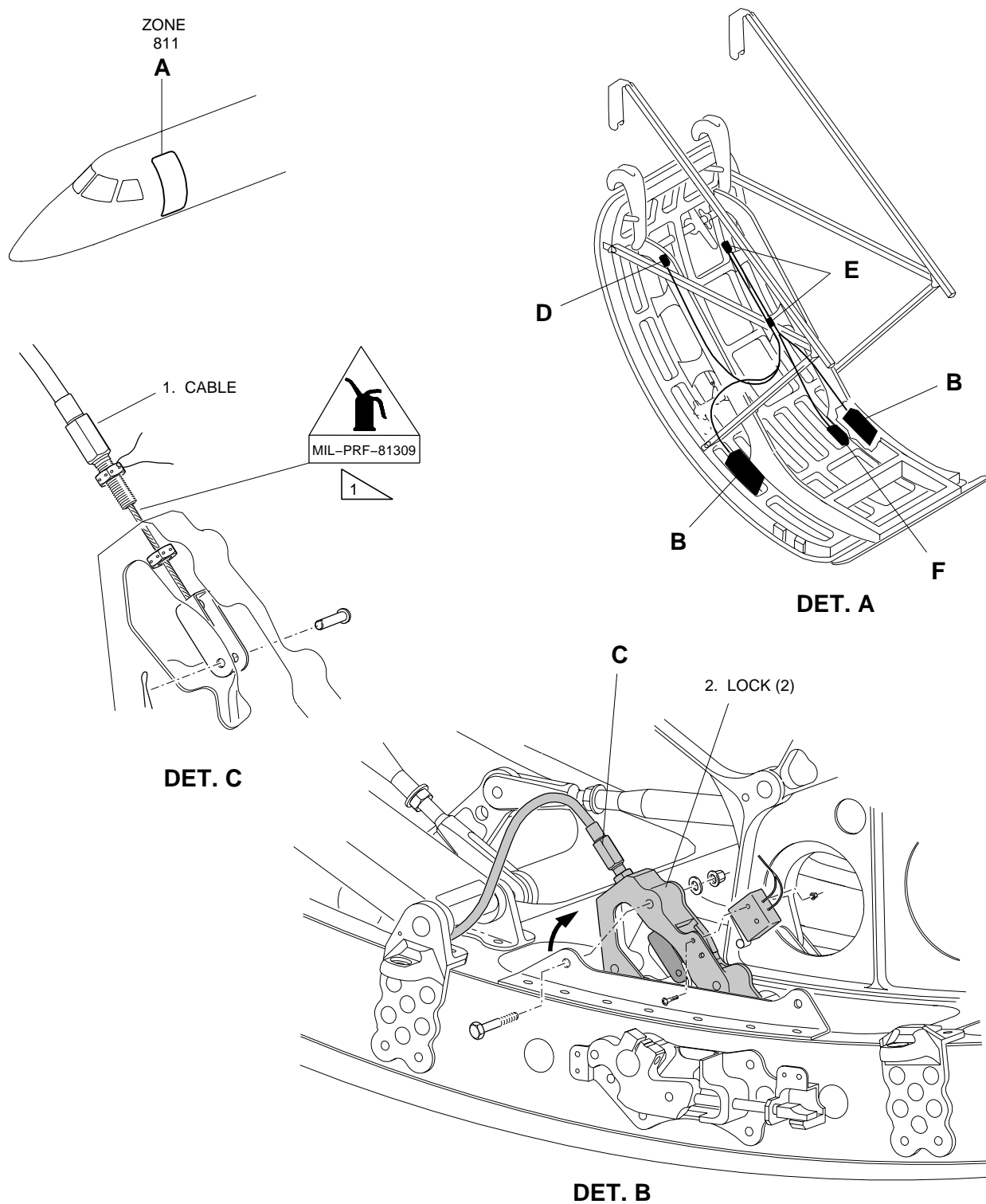
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**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

Main-Door Cables - Lubrication

Figure 304 - Sheet 1



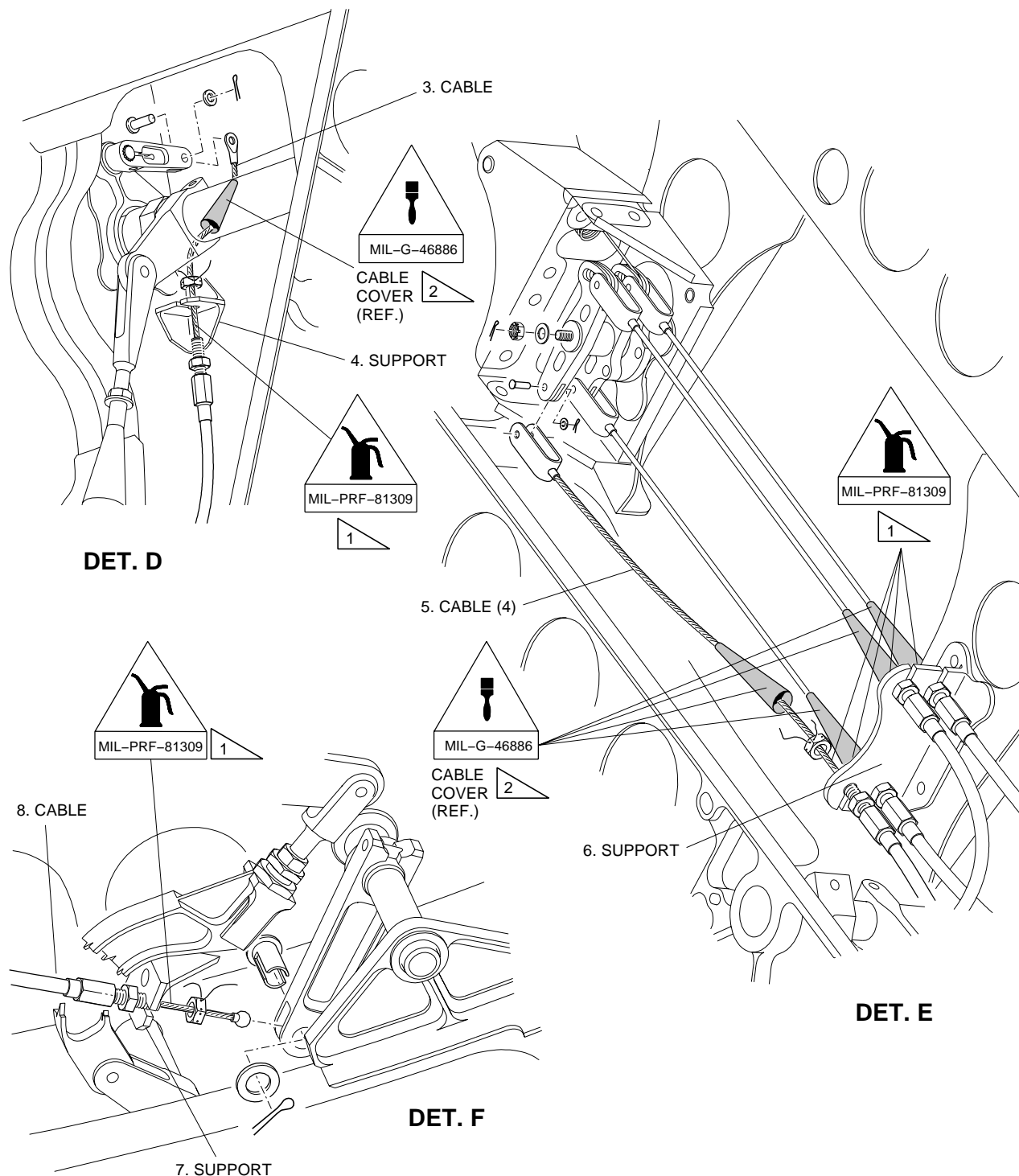
1 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

Figure 304 - Sheet 2



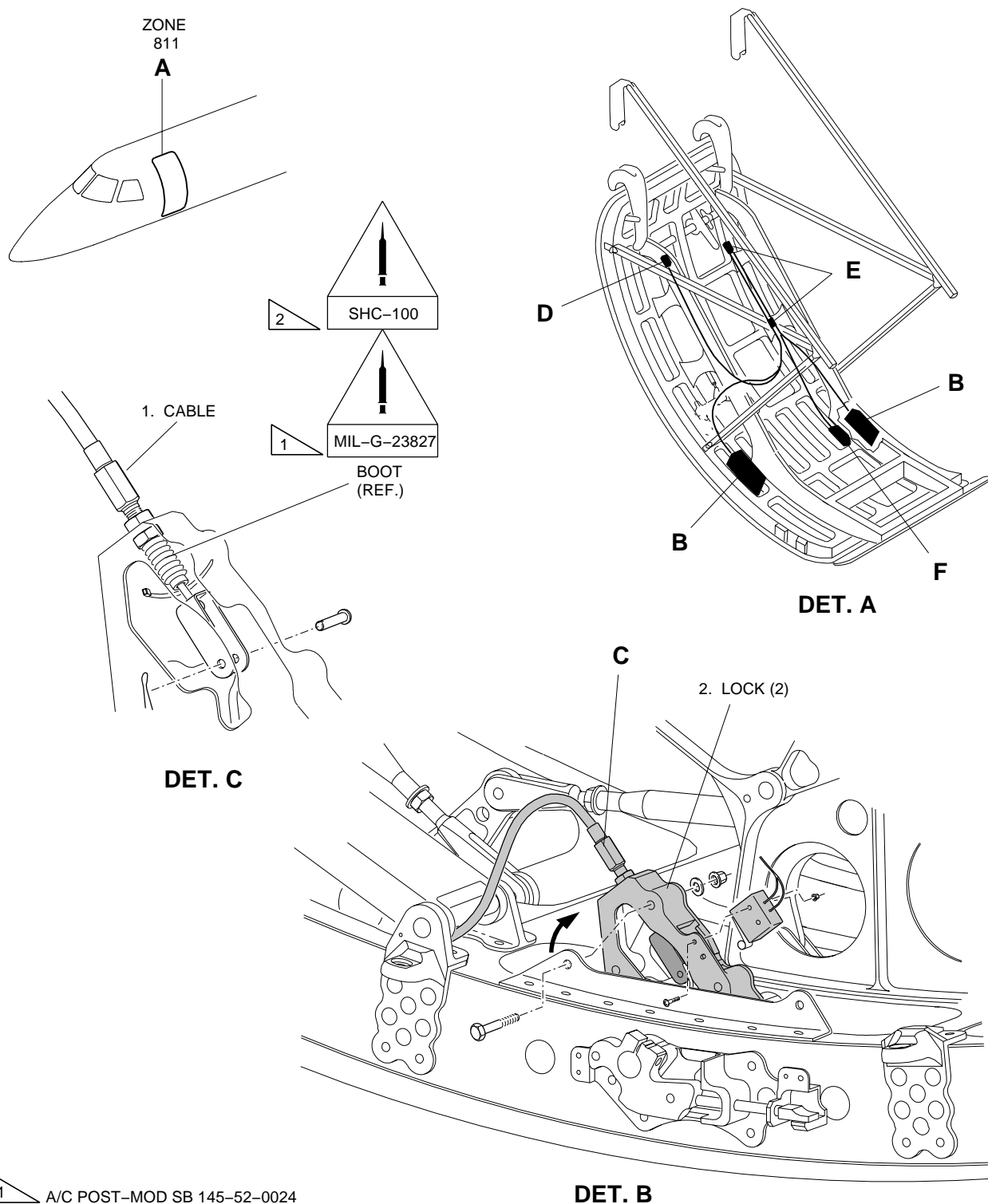
- 1 A/C POST-MOD SB 145-520021 – FULLY FILL THE CABLE COVER WITH MOLYKOTE.
- 2 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

Figure 305 - Sheet 1

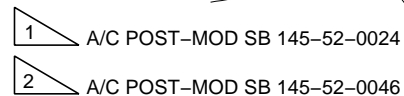


1 A/C POST-MOD SB 145-52-0024

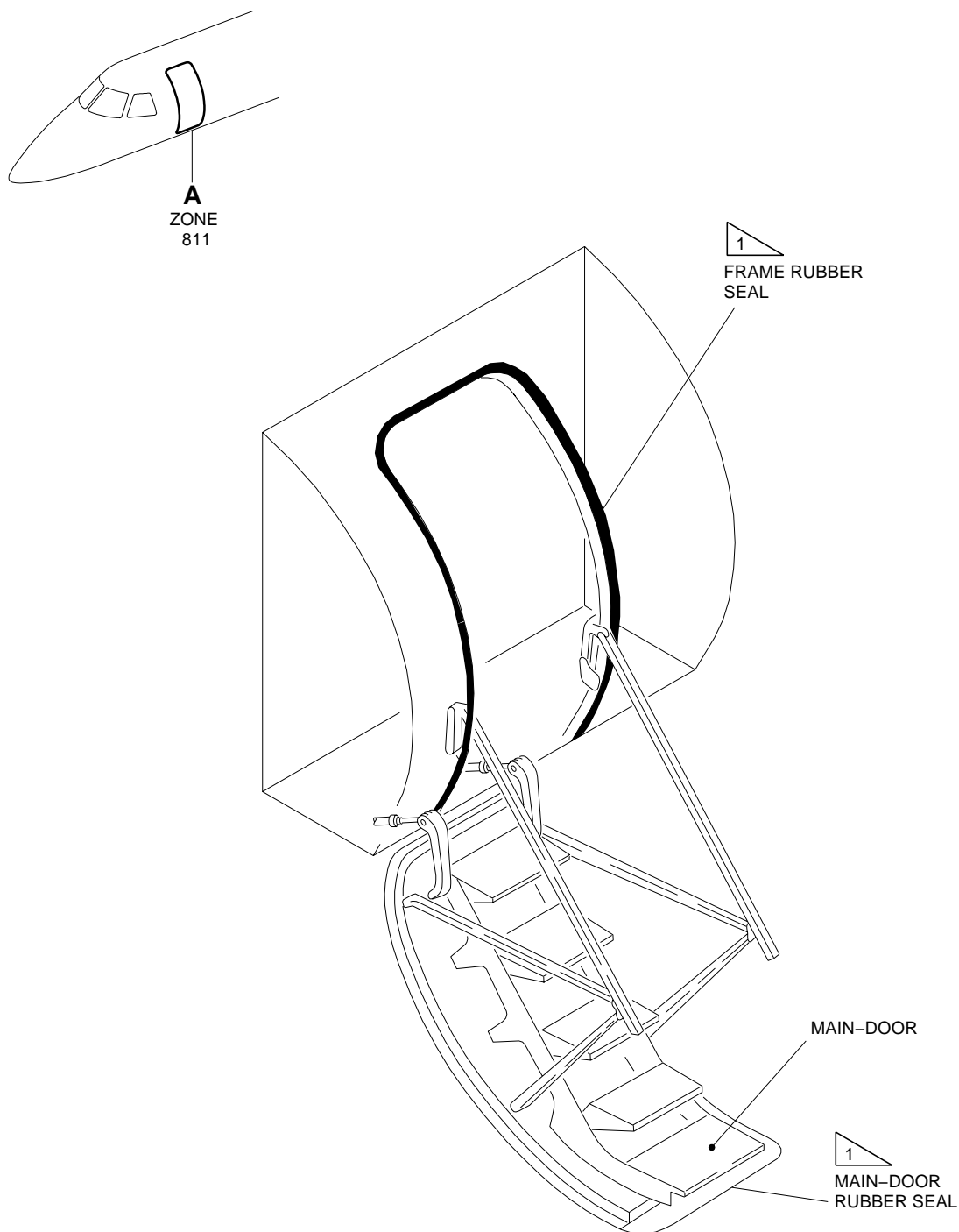
2 A/C POST-MOD SB 145-52-0046

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## Figure 305 - Sheet 2



*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*  
Main-Door Rubber Seal and Frame Rubber Seal - Lubrication  
Figure 306



1 APPLY TIOLON A20.

DET. A

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