



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

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 AIR-STAIRS DOOR



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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 (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
Titolon 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](#)).



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- 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](#)).

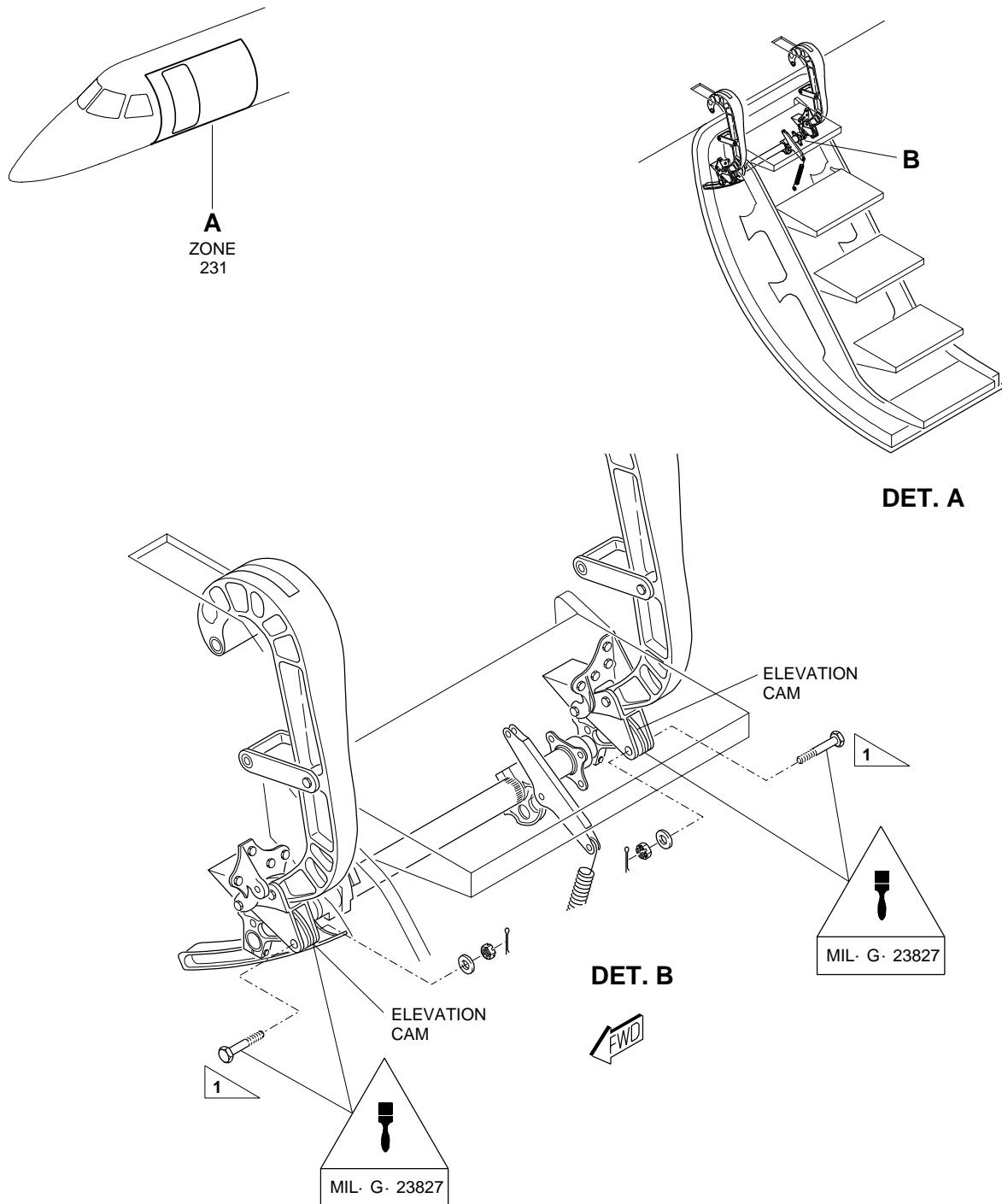
K. Follow-on

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](#)).

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Lubrication of Main-Door Elevation Cams and Elevation Cam Rollers
Figure 301



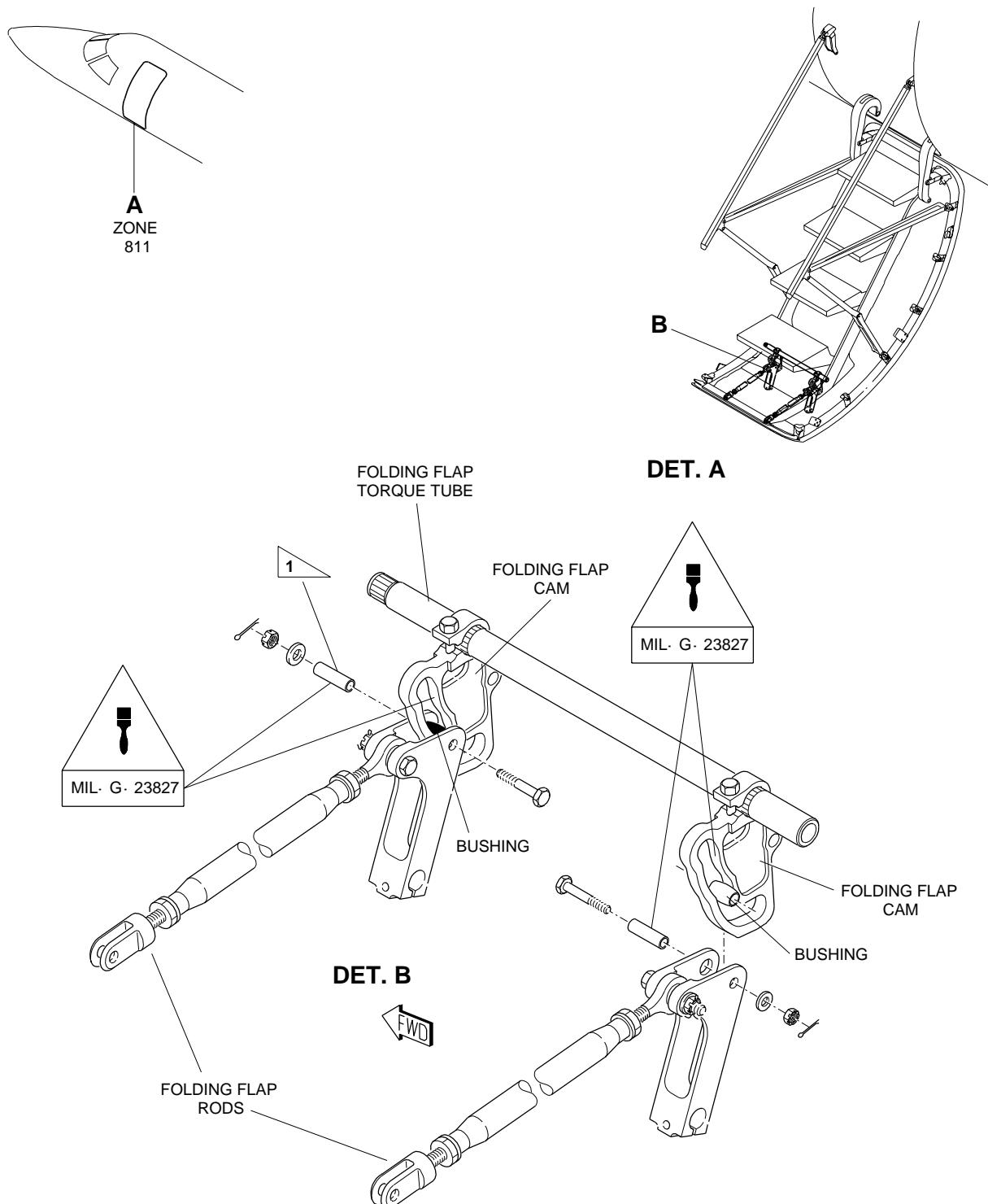
LUBRICATE THE INTERFACE BETWEEN THE BOLT AND THE BUSHING.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

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

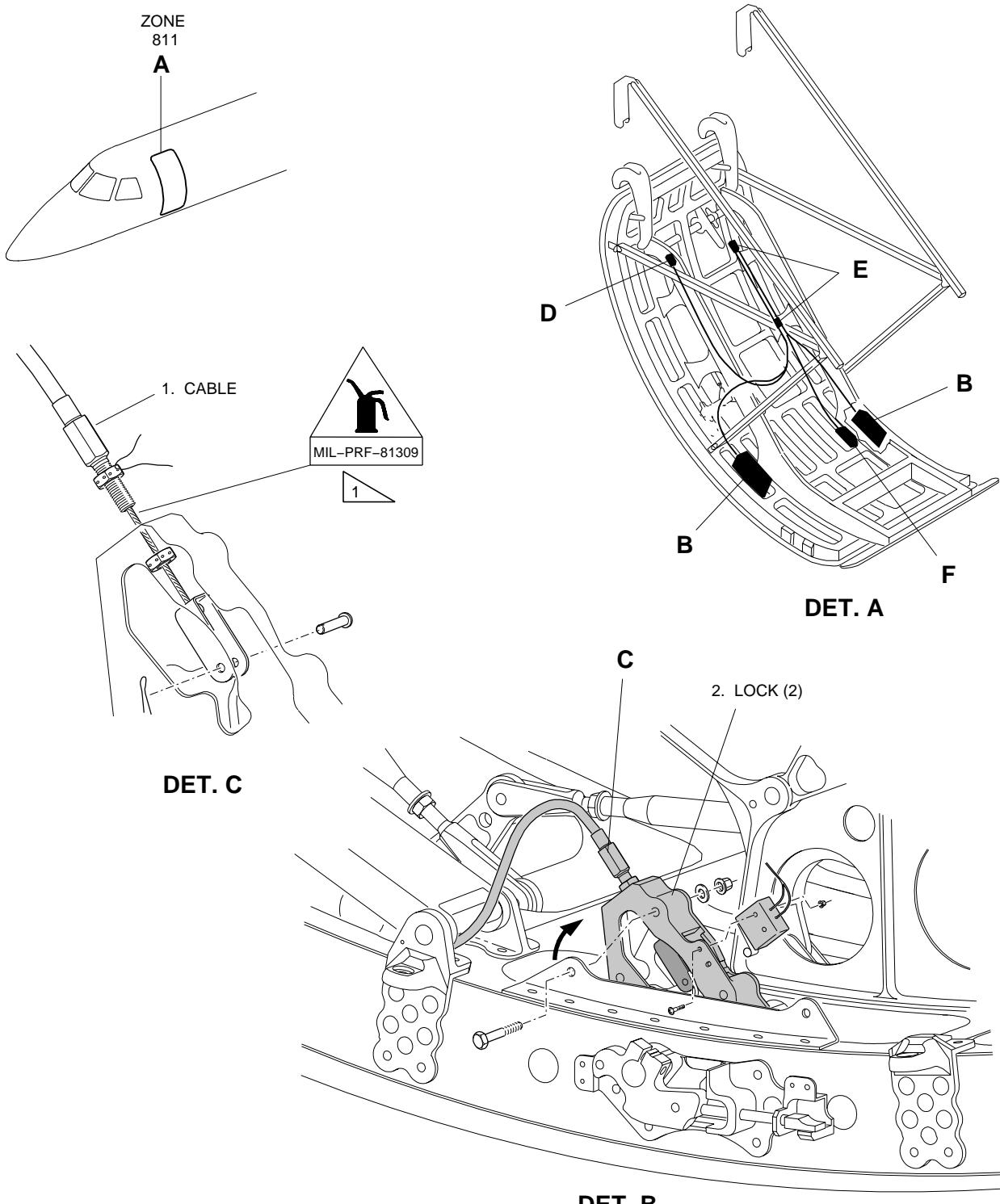
Figure 302



1 LUBRICATE THE INTERFACE BETWEEN THE SPACER AND THE BUSHING.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR
Main-Door Cables - Lubrication
Figure 303 - Sheet 1

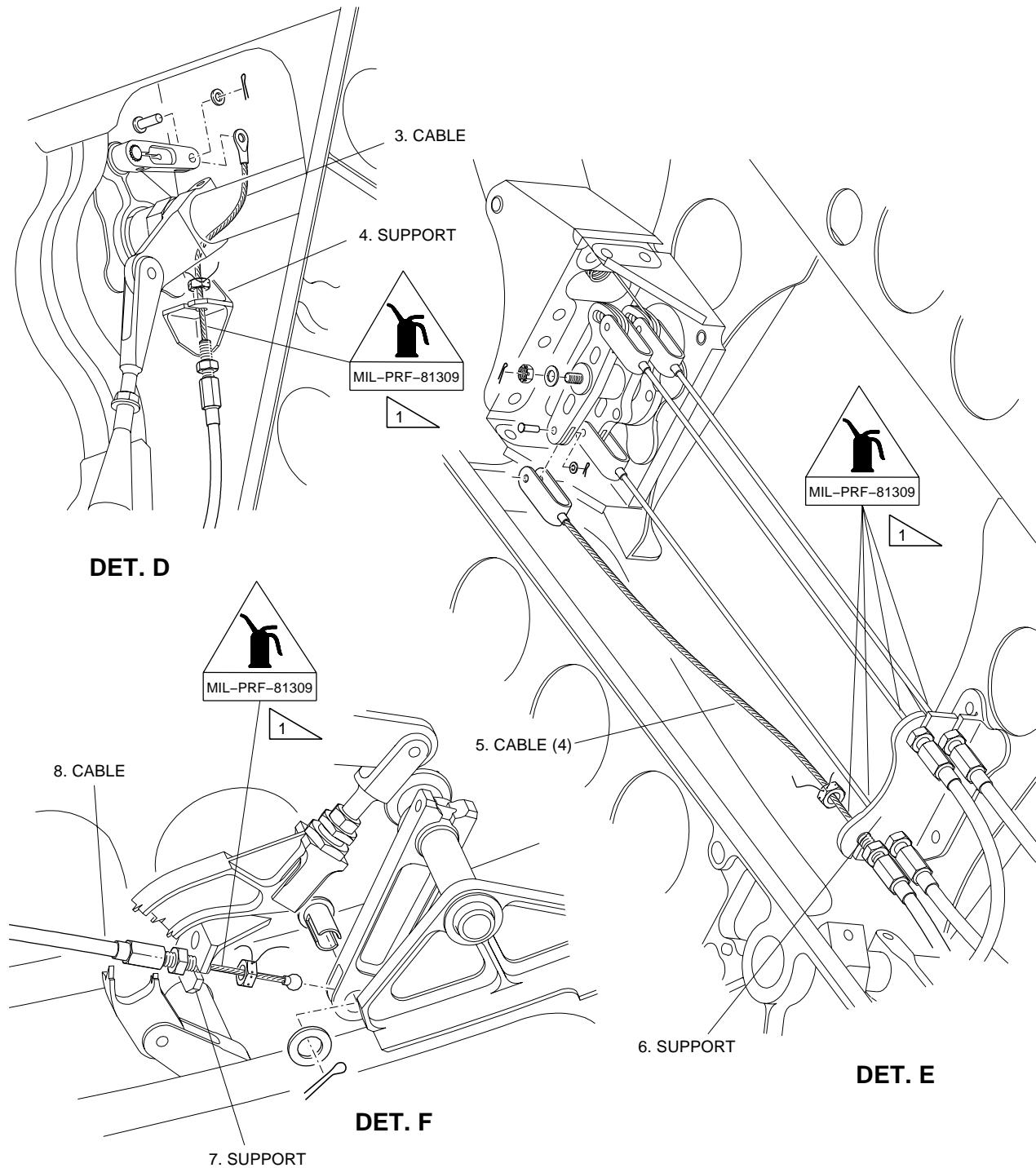


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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

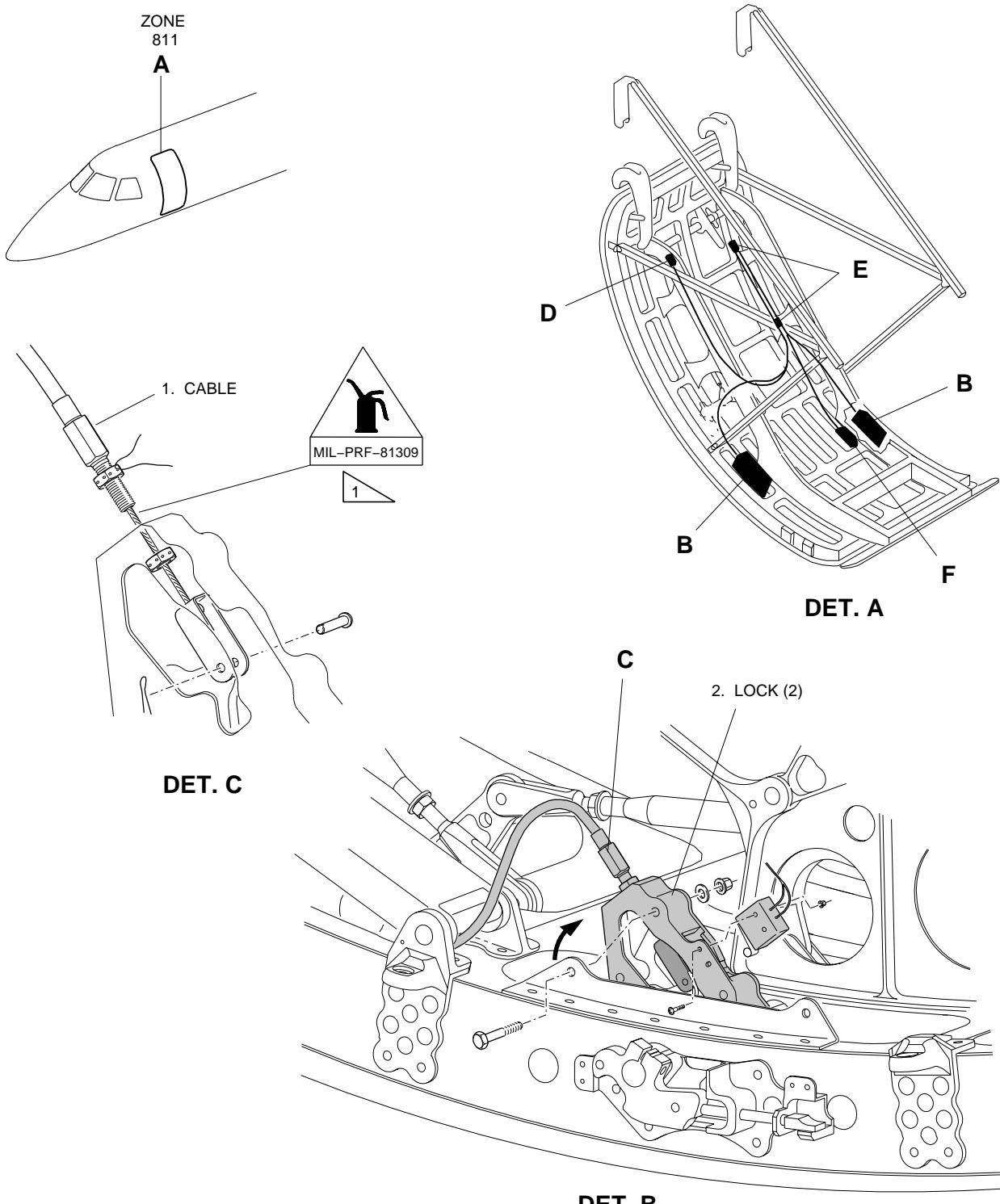
Figure 303 - Sheet 2



 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR
Main-Door Cables - Lubrication
Figure 304 - Sheet 1



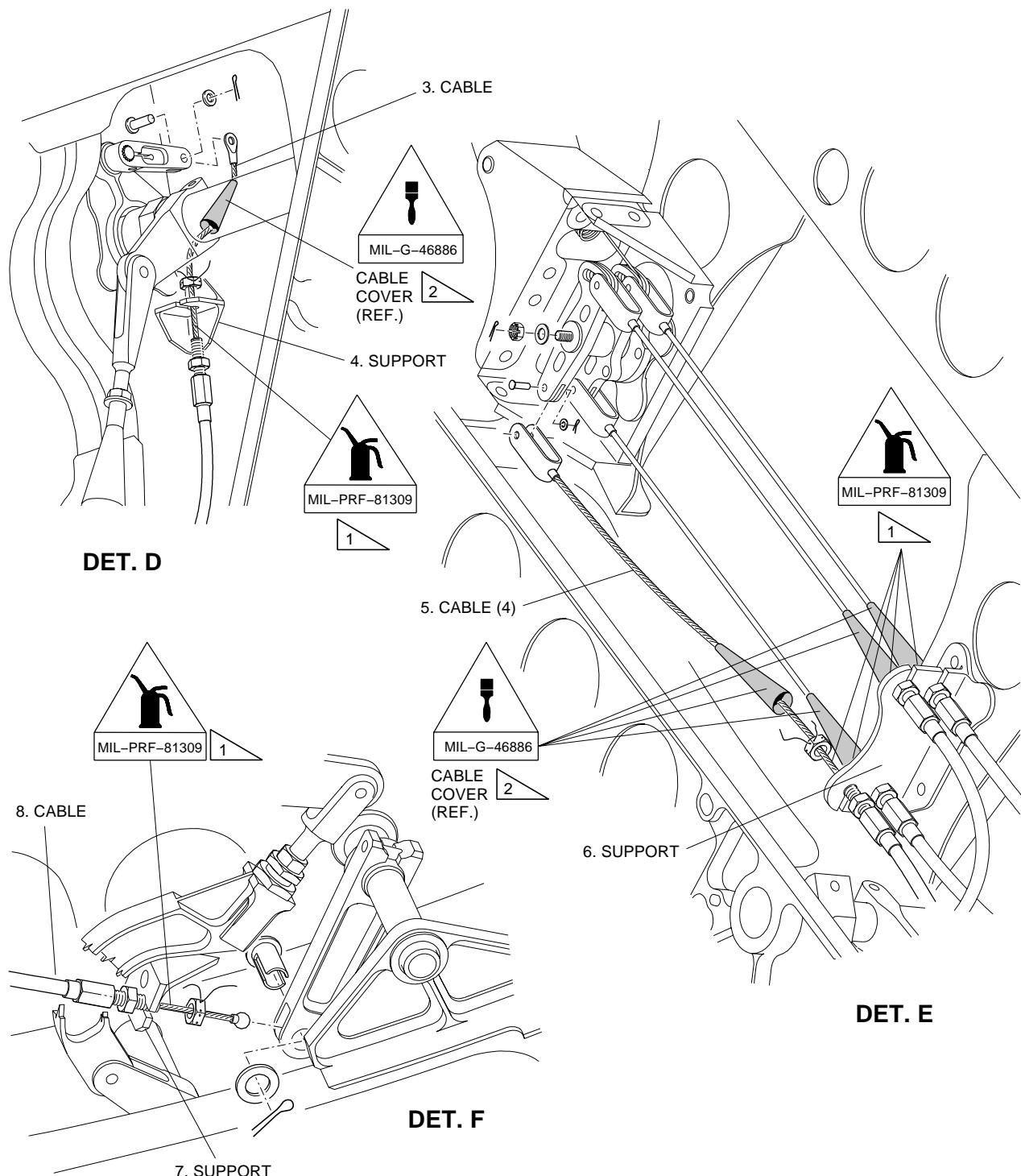
 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Main-Door Cables - Lubrication

Figure 304 - Sheet 2

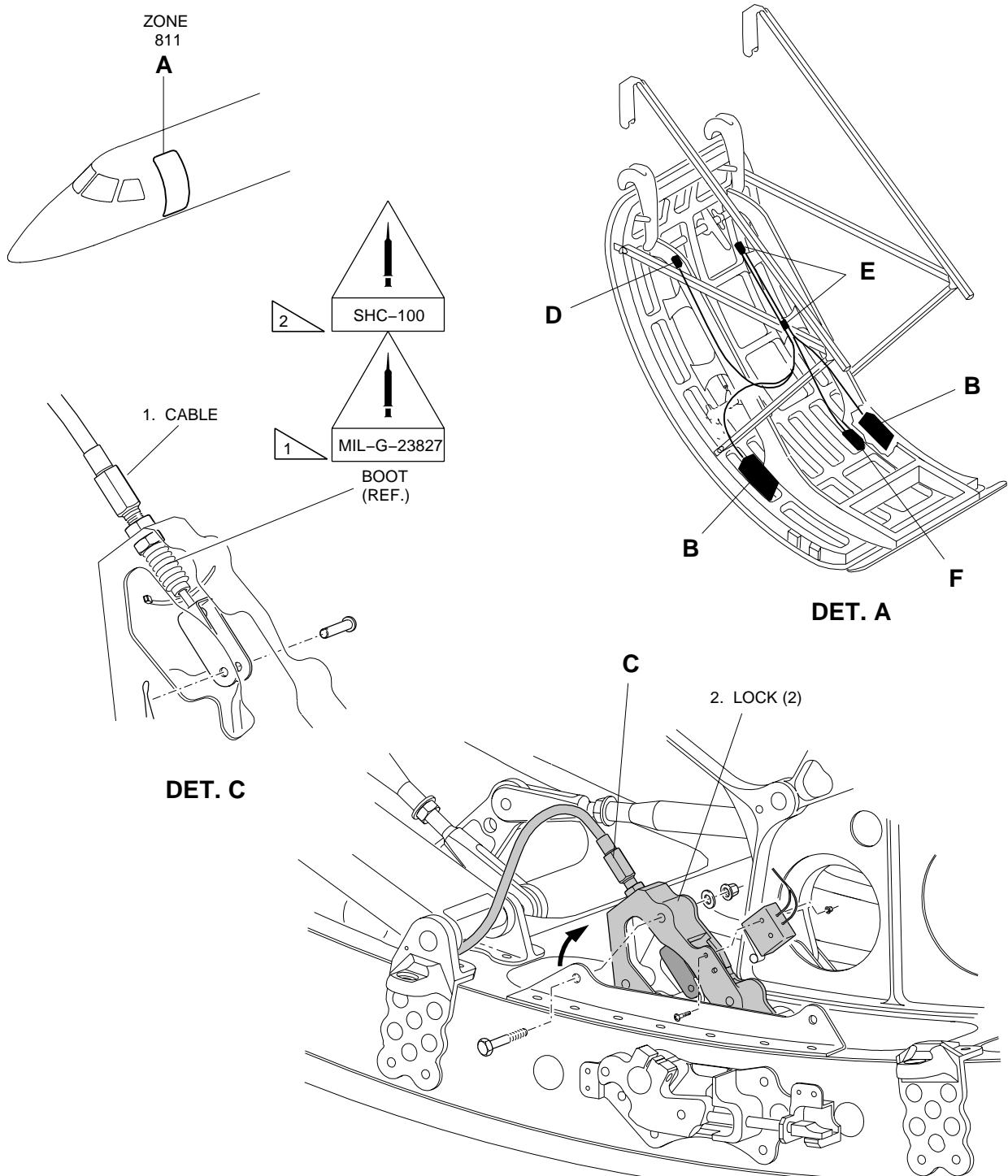


1 A/C POST-MOD SB 145-520021 – FULLY FILL THE CABLE COVER WITH MOLYKOTE.

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

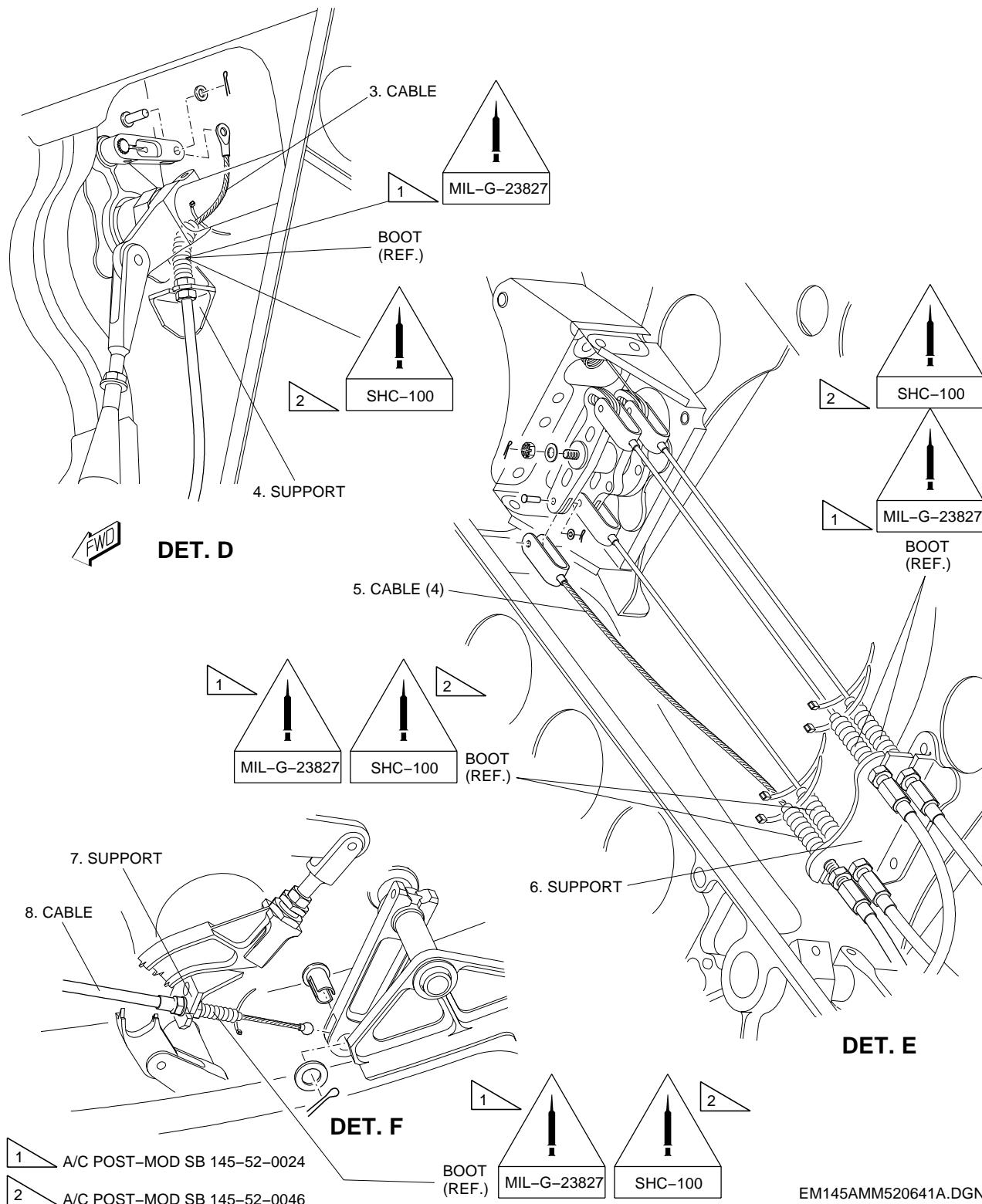
DET. B

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EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

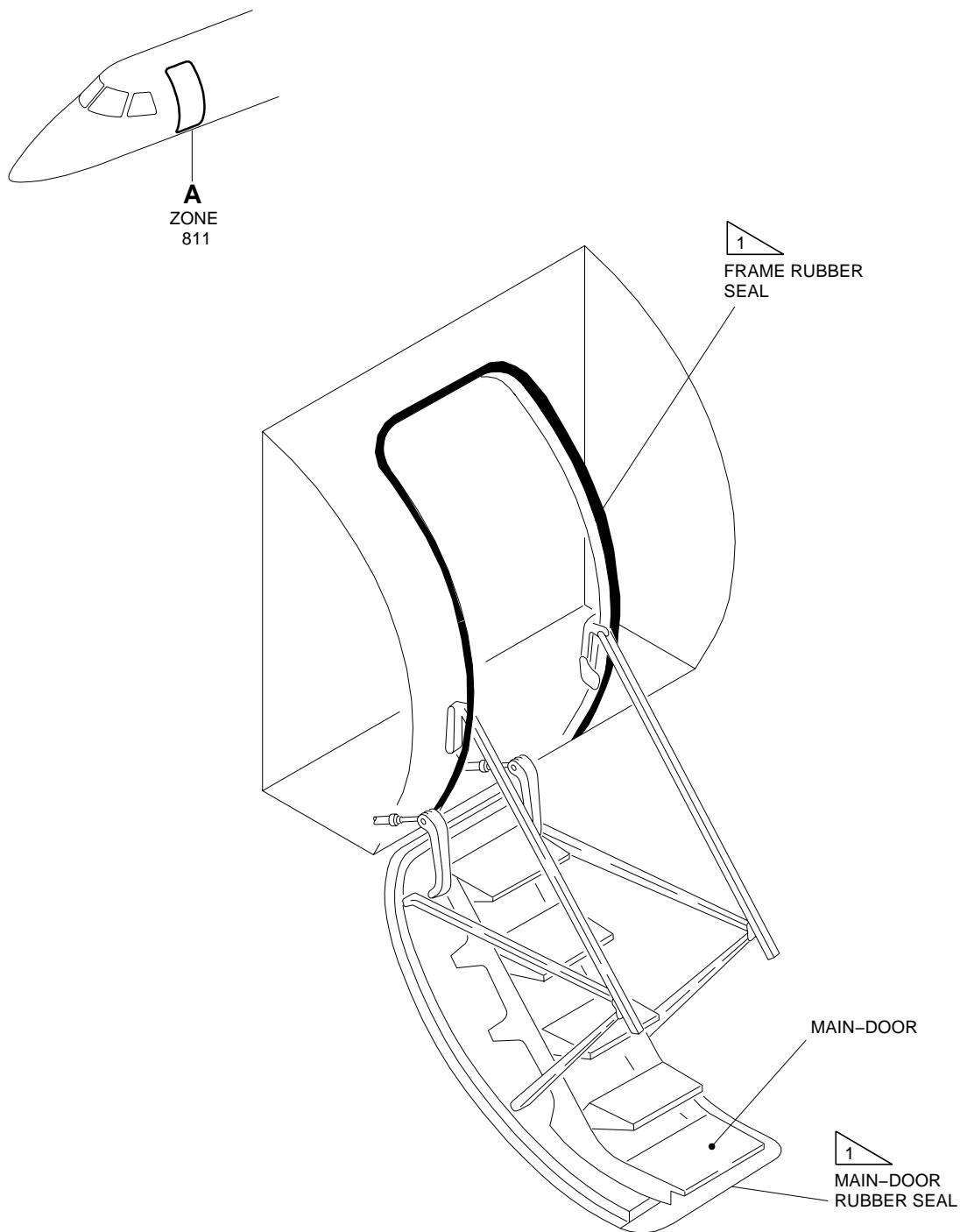
Main-Door Cables - Lubrication

Figure 305 - Sheet 2



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



 APPLY TIOLON A20.

DET. A

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