

SIDE-HINGED MAIN DOOR - SERVICING

EFFECTIVITY: AIRCRAFT WITH SIDE-HINGED MAIN DOOR

1. General

- A. This section gives the procedures to lubricate the actuating cam and the connecting cables of the side-hinged 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
52-18-00-600-801-A ◆	SIDE-HINGED MAIN-DOOR ACTUATING AND LOCKING MECHANISM - LUBRICATION	AIRCRAFT WITH SIDE-HINGED MAIN DOOR

TASK 52-18-00-600-801-A

EFFECTIVITY: AIRCRAFT WITH SIDE-HINGED MAIN DOOR

2. SIDE-HINGED MAIN-DOOR ACTUATING AND LOCKING MECHANISM - LUBRICATION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM SDS 52-18-00/1	
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 52-18-09-000-801-A/400	SIDE-HINGED MAIN-DOOR CABLES - REMOVAL
AMM TASK 52-18-09-400-801-A/400	SIDE-HINGED MAIN-DOOR CABLES - INSTALLATION
AMM TASK 53-21-02-600-801-A/300	MAIN-DOOR FRAME ROLLERS - LUBRICATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
811		Main Door

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the side-hinged main door	

E. Auxiliary Items

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

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-G-23827	Aeroshell grease 7	AR
Mobil SHC 100	Mobil grease SHC 100	AR
MIL-PRF-81309	Lubrication Oil LPS-1	AR
Tiolon A20	Dry PTFE Solid Film Lubricant	AR
MS3367-4-9	Tiedown strap	AR
MIL-C-16173, GR3	WD-40 Lubricant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	On the side-hinged main door

I. Preparation

SUBTASK 841-002-A

CAUTION: DO NOT OPEN THE DOOR FULLY. ONLY PUT IT OUT OF ITS FRAME.

- (1) Open the main door ([AMM SDS 52-18-00/1](#)).
- (2) Remove the main-door lining panels ([AMM TASK 25-23-04-000-801-A/400](#)).

J. Lubrication of Side-Hinged Main Door Actuating and Locking Mechanism

SUBTASK 640-002-A

- (1) Lubrication of the main door actuating cam ([Figure 301](#)).

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

- (a) Lubricate the actuating cam with Aeroshell grease 7.
- (b) Lubricate the actuating external handle with Tiolon A20, Dry PTFE Solid Film lubricant.

NOTE: For alternative: remove all traces of Tiolon A20 before applying WD-40.

- (2) Lubrication of the main door connecting cables ([Figure 302](#)).

- (a) For doors without protective boot, do as follows:

- 1 Remove the internal/external handle and lock box cables ([AMM TASK 52-18-09-000-801-A/400](#)).
- 2 Clean the internal/external handle and lock box cables, and their conduits, with dry compressed air.
- 3 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.
- 4 Lubricate with Mobil grease SHC 100 the region of the cables (1) (refer to DET. B) attached to the support (2).
- 5 Lubricate with Mobil grease SHC 100 the front and rear lock connecting cables (4) (refer DET. C) of the lock boxes.
- 6 Lubricate with Mobil grease SHC 100 the external-handle connecting cable (7) (refer to DET. D) around the support (8).
- 7 Lubricate with Mobil grease SHC 100 the internal-handle connecting cable (9) (refer to DET. E) around the support (10).

- 8 Install the internal/external handle and lock box cables ([AMM TASK 52-18-09-400-801-A/400](#)).

(b) For doors equipped with protective boot, do as follows:

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

- 1 Loosen the tiedown straps (1) (8 positions) of the protective boots (2) (8 positions) installed on the mixer connecting cables (3), lock connecting cables (4), external-handle connecting cable (5), and internal-handle connecting cable (6) (refer to DET. B, DET. C, DET. D, and DET. E).
 - 2 With a syringe, fully fill the protective boots (2) (8 positions) (refer to DET. B, DET. C, DET. D, and DET. E) with Mobil grease SHC 100 through the free end of the protective boot.
 - 3 Attach new tiedown straps (1) (8 positions) to the protective boots (2) (8 positions) (refer to DET. B, DET. C, DET. D, and DET. E).
- (3) Lubricate the main-door rubber seal and the frame rubber seal with Tiolon A20, Dry PTFE Solid Film lubricant ([Figure 303](#)).
- (4) Lubricate the frame roller ([AMM TASK 53-21-02-600-801-A/300](#)).

K. Follow-on

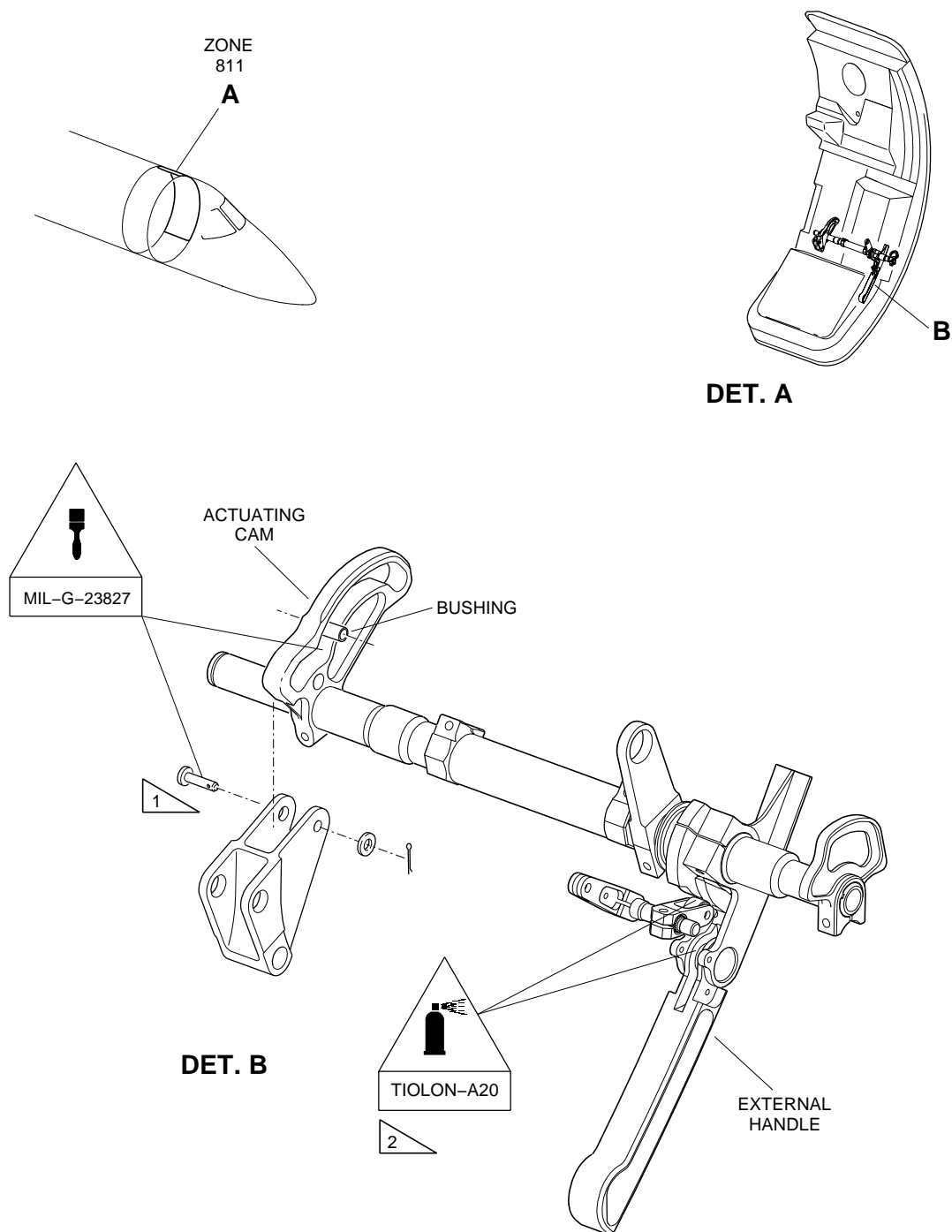
SUBTASK 842-002-A

- (1) Install the side-hinged main-door lining panels ([AMM TASK 25-23-04-400-801-A/400](#)).
- (2) Close the main door ([AMM SDS 52-18-00/1](#)).

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Side-Hinged Main Door - Lubrication

Figure 301



1

LUBRICATE THE INTERFACE BETWEEN THE PIN AND THE BUSHING.

2

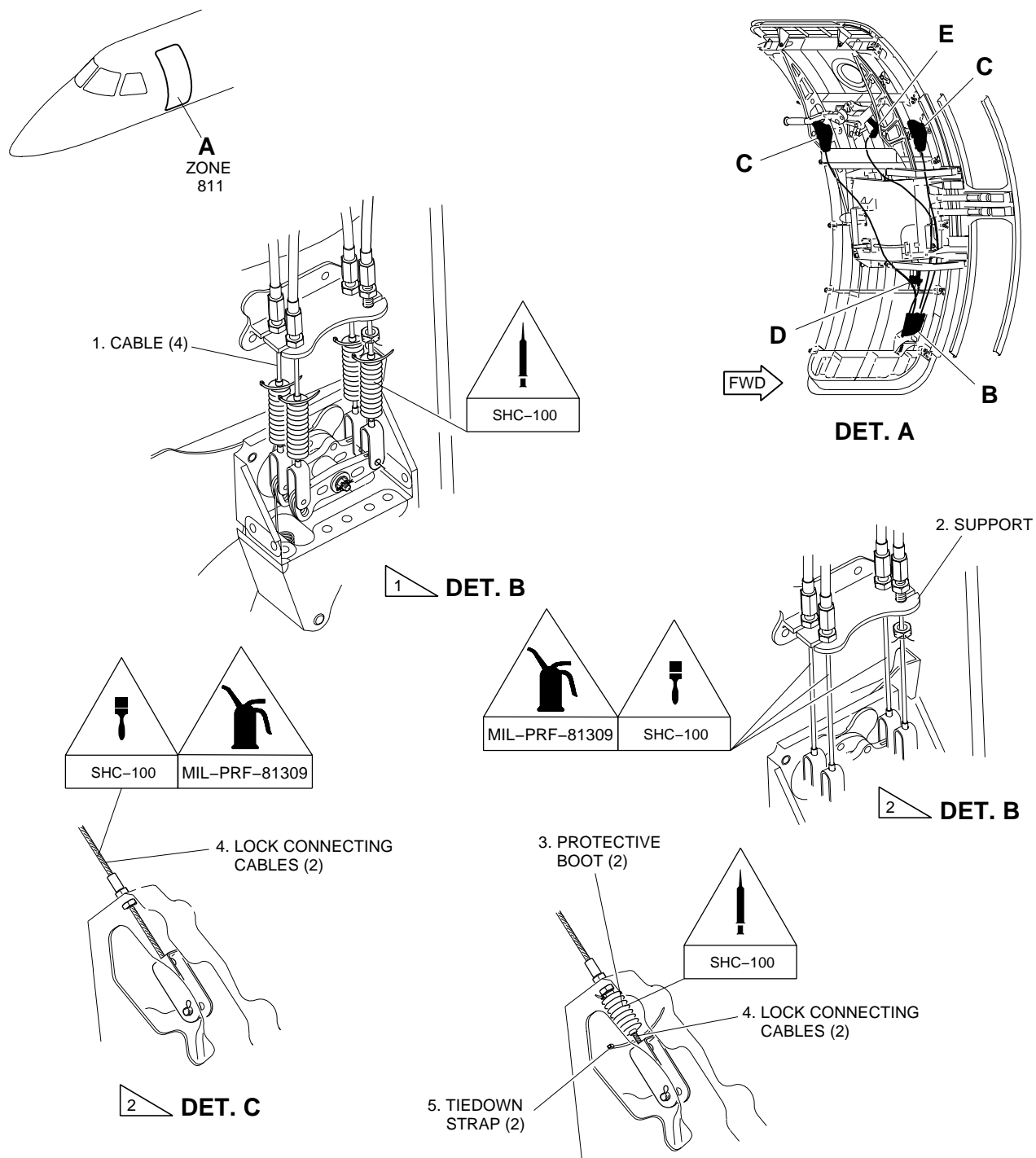
FOR ALTERNATIVE: REMOVE ALL TRACES OF TIOLON-A20 BEFORE APPLYING WD-40.

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Side-Hinged Main-Door Cables - Lubrication

Figure 302 - Sheet 1



1 FOR CONNECTING CABLES WITH PROTECTIVE BOOTS.

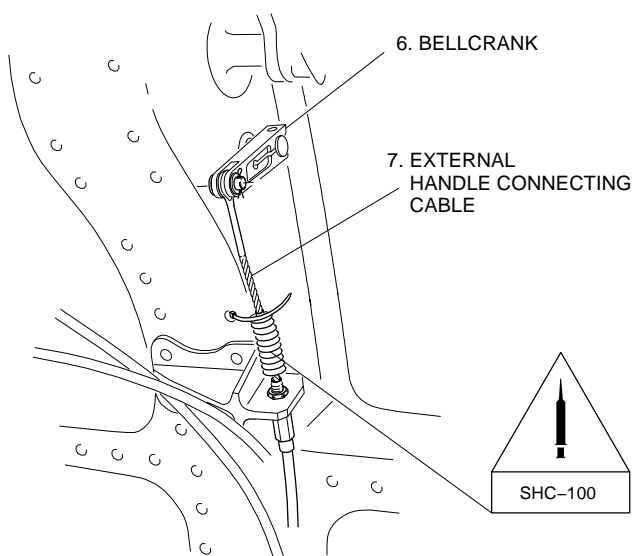
2 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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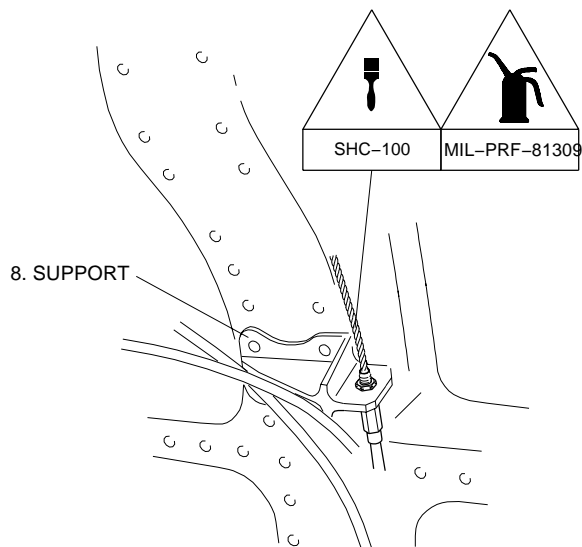
EFFECTIVITY: AIRCRAFT WITH SIDE-HINGED MAIN DOOR

Side-Hinged Main-Door Cables - Lubrication

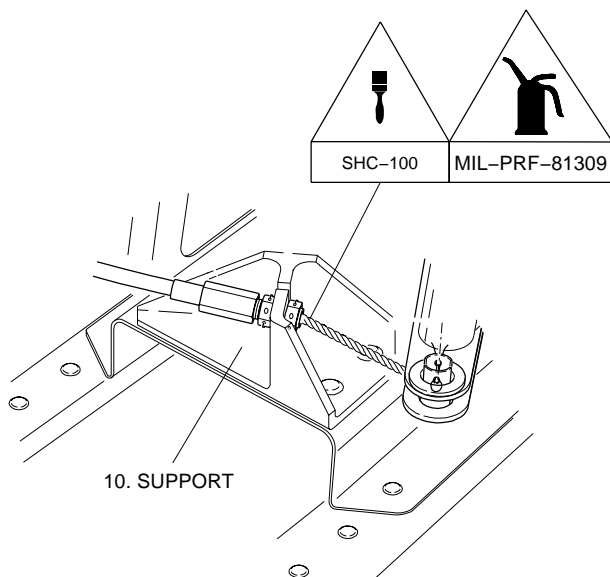
Figure 302 - Sheet 2



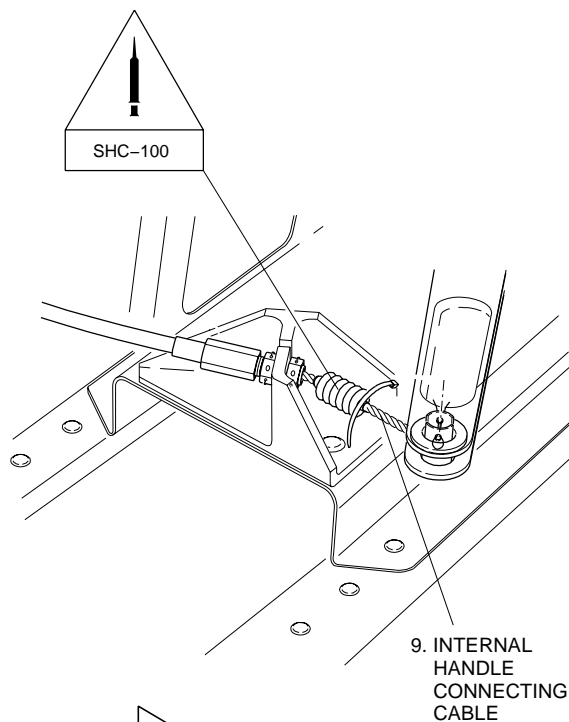
1 DET. D



2 DET. D



2 DET. E



1 DET. E

1 FOR CONNECTING CABLES WITH PROTECTIVE BOOTS.

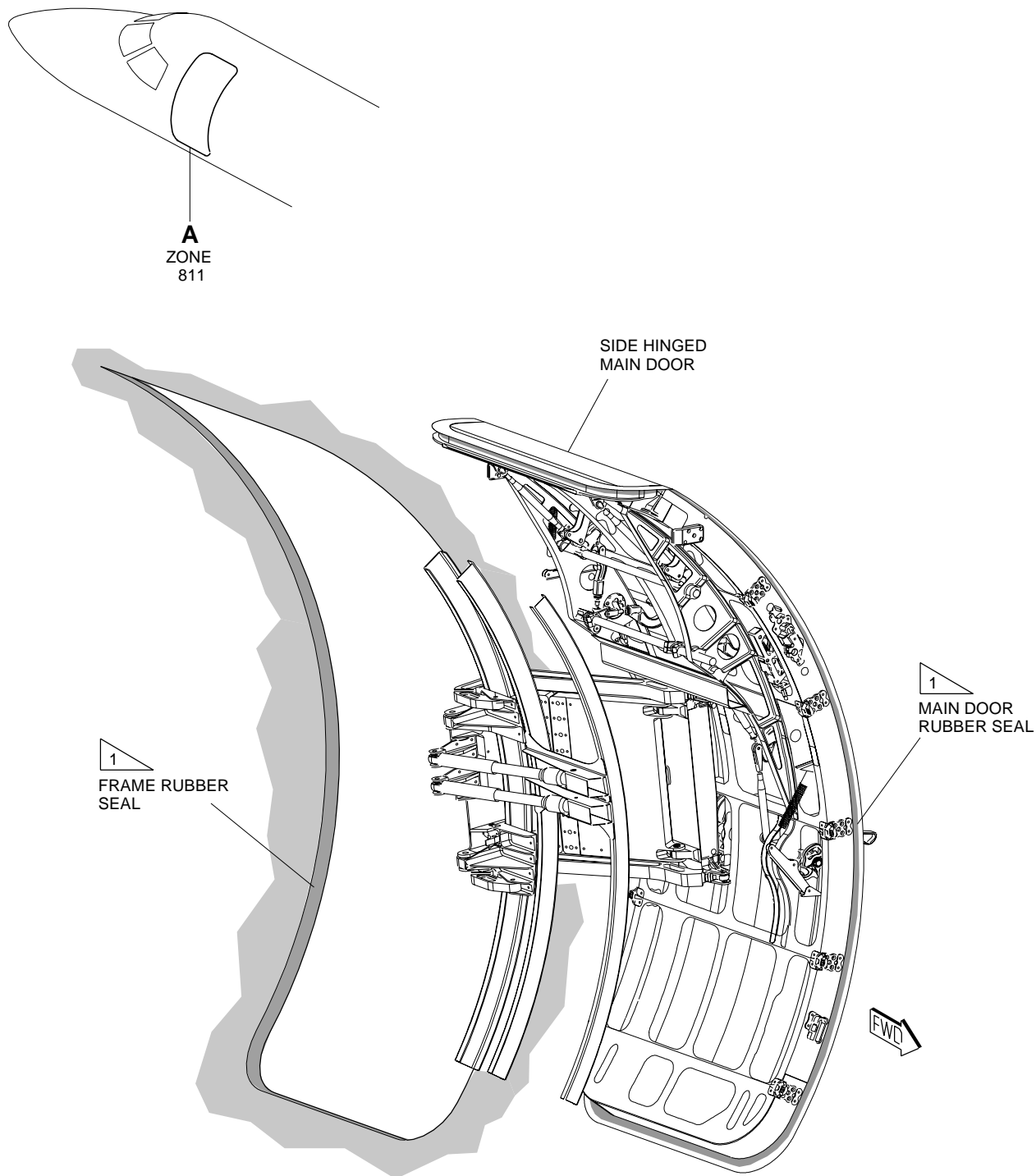
2 FOR CONNECTING CABLES WITHOUT PROTECTIVE BOOTS.

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EFFECTIVITY: AIRCRAFT WITH SIDE-HINGED MAIN DOOR

Main-Door Rubber-Seal and Frame-Rubber Seal - Lubrication

Figure 303



DET. A

1 APPLY TIOLON A20

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