

PASSENGER-CABIN ESCAPE HATCHES - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do a check of the operation of the escape hatch mechanism and to adjust it.
- 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
52-21-00-700-801-A ♦	PASSENGER-CABIN ESCAPE HATCHES - ALL OPERATIONAL CHECK	
52-21-00-820-801-A	PASSENGER-CABIN ESCAPE-HATCH SUPPORT PINS - ADJUSTMENT	ALL

TASK 52-21-00-700-801-A

EFFECTIVITY: ALL

2. PASSENGER-CABIN ESCAPE HATCHES - OPERATIONAL CHECK

A. General

- (1) This task gives the procedure to make sure that the escape hatch mechanism operates correctly.

B. References

REFERENCE	DESIGNATION
AMM TASK 52-21-00-820-801-A/500	PASSENGER-CABIN ESCAPE-HATCH SUPPORT PINS - ADJUSTMENT

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
812		LH escape hatch
822		RH escape hatch

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	On the escape hatches

I. Preparation

SUBTASK 841-003-A

- (1) Open the panel to get access to the opening mechanism.

J. Operationally Check Passenger Cabin Escape Hatch Mechanism ([Figure 501](#))

SUBTASK 710-003-A

- CAUTION: • THE RH ESCAPE HATCH MUST NOT BE INSTALLED ON THE LH SIDE OF THE FUSELAGE AND VICE VERSA.
- IF ESCAPE HATCHES OF TWO DIFFERENT AIRCRAFT ARE CHANGED FOR EACH OTHER, IT WILL BE NECESSARY TO DO AN ADJUSTMENT AT THESE HATCHES ([AMM TASK 52-21-00-820-801-A/500](#)).
 - WHEN YOU INSTALL THE ESCAPE HATCHES, MAKE SURE THAT THE SEAL AROUND THEM STAYS FULLY AGAINST THE EDGE OF THE AIRFRAME CUTOUT. AFTER YOU INSTALL THE HATCHES, OPERATE THE HANDLES TO MAKE SURE THAT THE TOP EDGES OF THE HATCHES ARE FREE.
- (1) Pull the opening mechanism. Use the upper handle to pull the escape hatch in. Make sure that you remove the escape hatch correctly.
 - (2) Pull the opening mechanism again and release it. Make sure that the cover goes freely back to its place.

K. Follow-on

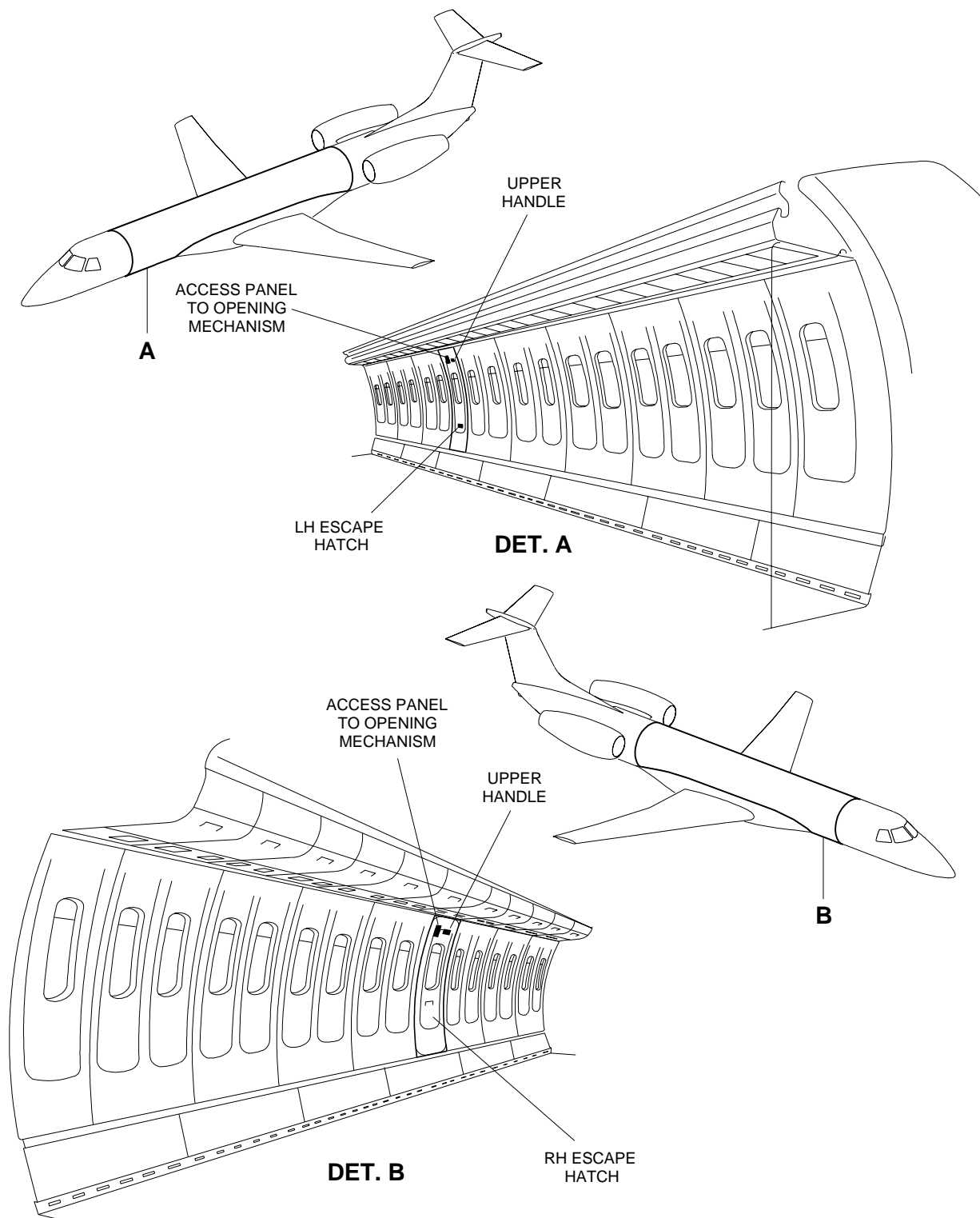
SUBTASK 842-003-A

- (1) Close the opening-mechanism access panel.

EFFECTIVITY:: ALL

Operationally Check Passenger Cabin - Escape Hatches

Figure 501



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TASK 52-21-00-820-801-A

EFFECTIVITY: ALL

3. PASSENGER-CABIN ESCAPE-HATCH SUPPORT PINS - ADJUSTMENT

A. General

(1) This task gives the procedure to adjust the escape-hatch support pins.

B. References

REFERENCE	DESIGNATION
AMM SDS 52-21-00/1	
AMM TASK 52-21-00-000-801-A/400	PASSENGER-CABIN ESCAPE HATCHES - REMOVAL
AMM TASK 52-21-00-400-801-A/400	PASSENGER-CABIN ESCAPE HATCHES - INSTALLATION
AMM TASK 52-21-00-600-801-A/300	PASSENGER-CABIN ESCAPE HATCHES - LUBRICATION
AMM TASK 52-21-00-700-801-A/500	PASSENGER-CABIN ESCAPE HATCHES - OPERATIONAL CHECK

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
812		LH escape hatch
822		RH escape hatch

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 203	Wrench-Eccentric Pin, Emergency Door	Adjust the eccentric shaft	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Makes the adjustment	On the escape hatches

I. Adjustment (Figure 502)

SUBTASK 820-003-A

(1) Remove the escape hatch and hold it properly (AMM SDS 52-21-00/1).

- (2) Remove the escape hatch lining. Refer to [AMM TASK 52-21-00-000-801-A/400](#).
- (3) Remove the nut that attaches the support pin (DET. D, Figure 502, sheet 2).
- (4) Remove the support pin.
- (5) Add or remove delaminable aluminum shim (refer to DET. G, Figure 502, sheet 2.), until the distance from the escape hatch bottom edge to the fuselage cutout line is at 7.0 + 0 - 0.5 mm (0.275 + 0 - 0.019 in). Refer to DET. D, Figure 502, sheet 2.

CAUTION: • THE RH ESCAPE HATCH MUST NOT BE INSTALLED ON THE LH SIDE OF THE FUSELAGE AND VICE-VERSA.

- IF ESCAPE HATCHES OF TWO DIFFERENT AIRCRAFT ARE CHANGED FOR EACH OTHER, IT WILL BE NECESSARY TO DO A CHECK AT THESE HATCHES ([AMM TASK 52-21-00-700-801-A/500](#)).

- (6) Install the nut that attaches the support pin and tighten it correctly.
- (7) Loose the nut (1) (DET. E, [Figure 502](#), sheet 2).

NOTE: Not remove the nut.

- (8) Adjust the eccentric shaft (DET. E, [Figure 502](#), sheet 2), with the use of GSE 203. See the check points shown in step values table below and (DET. B, [Figure 502](#), sheet 1). Obey the specified values.

NOTE: The distances mentioned in the table refers to the distance between fuselage external skin and emergency hatch external skin (DET. F, Figure 502, sheet 2).

NOTE: Negative values indicate the emergency hatch skin is displaced towards the inside of fuselage (DET. F, Figure 502, sheet 2).

Table 501

STEP VALUES			
CHECK POINTS	STEP mm (in.)		AIRCRAFT
	MIN.	MAX.	
1 - 2	- 1.5 (- 0.059)	+ 0.5 (+ 0.019)	DISCHARGED
3	- 2.5 (- 0.098)	- 0.5 (- 0.019)	DISCHARGED

- (9) Use a dynamometer to make sure that the force for opening and closing the escape-hatch corresponds to the values of the table below:

Table 502

INTENSITY KGF (LBF)	
OPENING	8.0 (17.64)
CLOSING	4.0 (8.82)

- (10) Add or remove shim from under the guide (DET. J, [Figure 502](#), sheet 2) to adjust the door. Refer to the table below (CHECK POINT X ALLOWABLE GAP).

Table 503

CHECK POINT	ALLOWABLE GAP mm (in.)	
	MAX.	MIN.
1	5.0 (0.19)	3.0 (0.12)
2	3.0 (0.12)	1.0 (0.039)
3	5.0 (0.19)	1.0 (0.039)

(11) Make sure that the gap between the fuselage cutout line and the escape-hatch top edge is 2.2 mm (0.087 in) and 2.6 mm (0.10 in) (DET. H, Figure 502, sheet 2).

(12) Make sure that the gap between the fuselage skin and the escape hatch bottom edge is 2.0 ± 1.0 mm (0.078 ± 0.039 in) (DET. D, Figure 502, sheet 2).

NOTE: Do the procedure for adjustment again, if you can not find the value of the above gap.

(13) Torque the locknut (1) as follows:

(a) Make sure that the threads of the nut and bolt fully engage. The base of the nut must not touch the surface.

(b) Turn the locknut and measure the locking torque with a torque wrench.

(c) Make sure that the locking torque value is 0.734 - 6.78 N.m (6.5 - 60 lb.in).

NOTE: If you find a nut that is not in the correct range, you must replace it and repeat the procedure from step (e) again.

(d) Add the locking torque value measured in step (b) to the standard torque of 11.3 - 15.8 N.m (100 - 140 lb.in) to get the final torque.

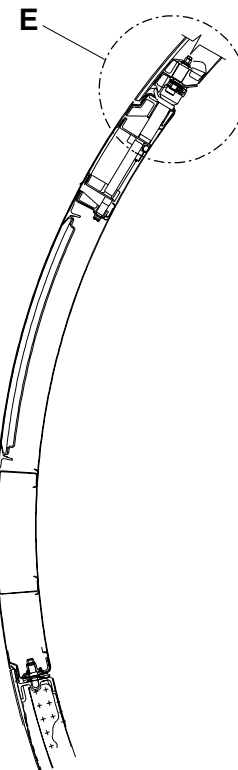
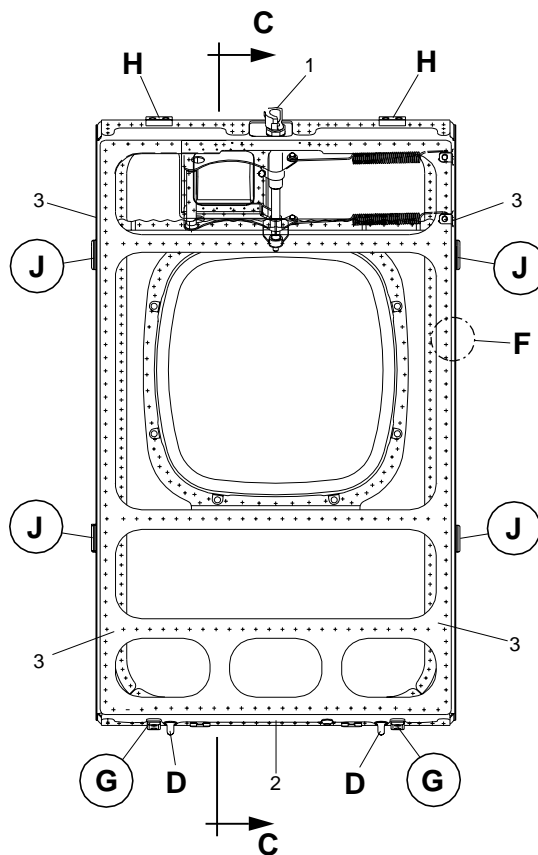
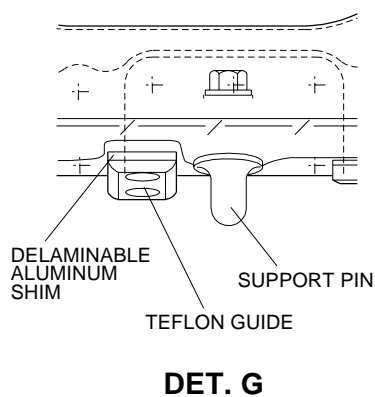
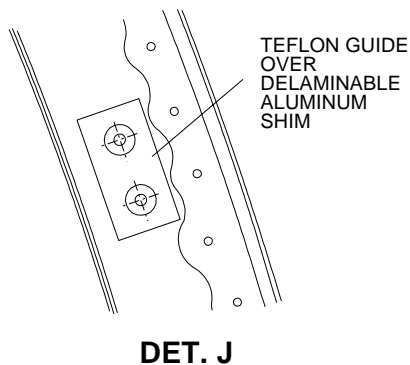
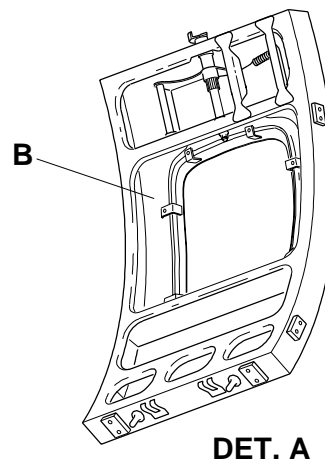
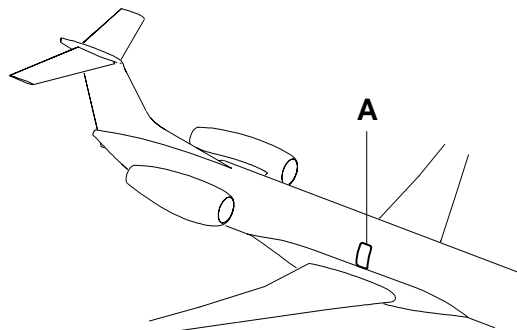
(e) Torque the locknut to the final torque.

(14) Install the escape hatch lining.

(15) Install the escape hatch. Refer to [AMM TASK 52-21-00-400-801-A/400](#).

NOTE: Examine the lubrication of the escape hatch seal lip. Refer to [AMM TASK 52-21-00-600-801-A/300](#).

EFFECTIVITY:: ALL
Support Pins - Adjustment
Figure 502 - Sheet 1



SECTION C-C

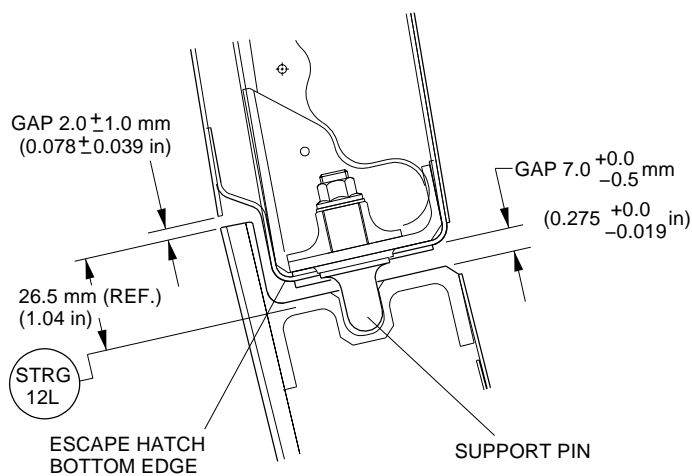
DET. B

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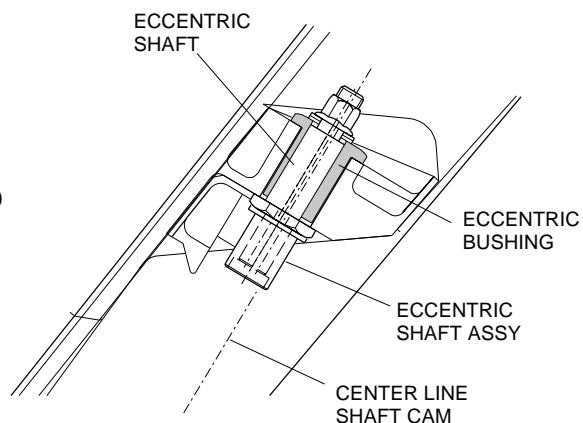
EFFECTIVITY:: ALL

Support Pins - Adjustment

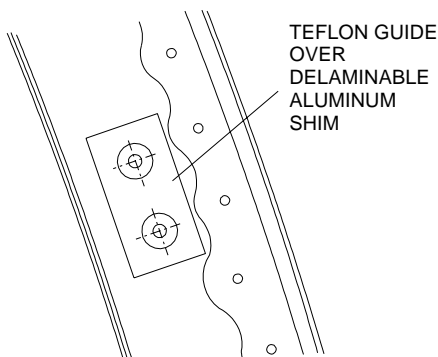
Figure 502 - Sheet 2



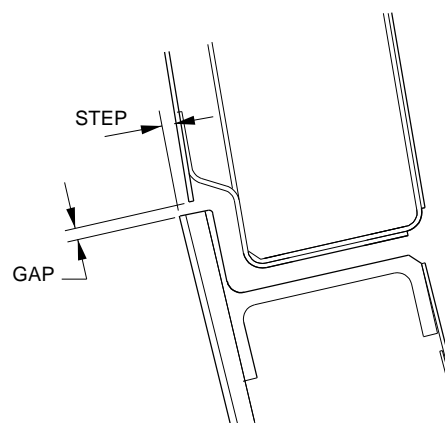
DET. D



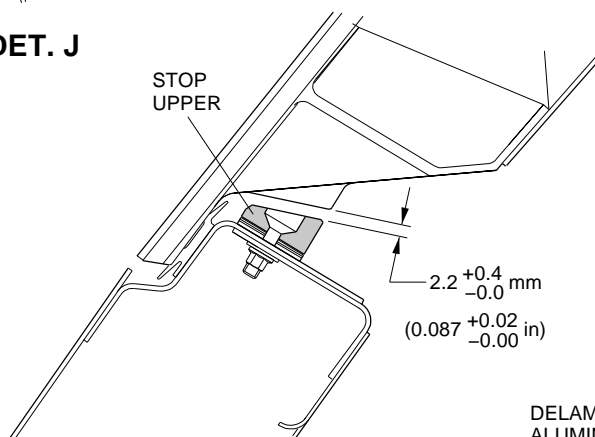
DET. E



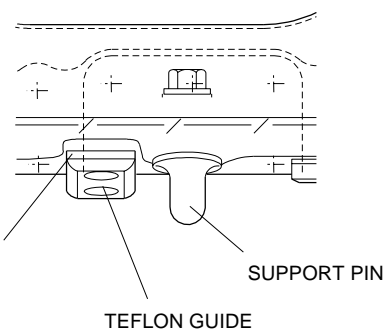
DET. J



DET. F
(TYPICAL)



DET. H



DET. G

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