



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**BAGGAGE-DOOR LIFTING AND LOWERING MECHANISM - ADJUSTMENT/TEST**

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to adjust the baggage-door lifting and lowering mechanism.
- B. This procedure must be done after the replacement of one or more torsion bars.
- C. 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
52-32-00-820-801-A	BAGGAGE-DOOR LIFTING AND LOWER- ING MECHANISM - ADJUSTMENT/TEST	ALL



EMB145 - EMB135

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TASK 52-32-00-820-801-A

EFFECTIVITY: ALL

2. BAGGAGE-DOOR LIFTING AND LOWERING MECHANISM - ADJUSTMENT/TEST

A. General

(1) Obey the instructions below to adjust the baggage-door lifting and lowering mechanism.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-05/100	- COMPONENT LOCATION
AMM TASK 52-32-00-200-801-A/600	BAGGAGE DOOR LIFTING AND LOWERING MECHANISM FOR GENERAL CONDITION AND TORSION BAR FOR TORSION - INSPECTION/CHECK
ITEM GSE 208	PIN ASSEMBLY
ITEM GSE 213	PIN - COMPENSATING MECHANISM LOCKING, BAGGAGE DOOR
SB145-52-0012	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
813		Baggage door
273	273BTC	Headliner panel

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 208	Pin Assembly	To lock the support and gears	
GSE 213	Cargo Door Pin - Compensating Mechanism Locking	To lock the support and gears	

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	Outside, at the baggage door
1	Helps the other technician	Baggage compartment



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I. Preparation

SUBTASK 841-002-A

- (1) Remove the screws and washers (29 positions - refer to POST-MOD [SB145-52-0012](#)) of the cover of the upper middle cargo-compartment liner to get access to the compensating mechanism drum, only to adjust the baggage-door lifting and lowering mechanism.
- (2) Remove headliner panel 273BTC ( [AMM MPP 06-41-05/100](#)) to get access to the compensating mechanism drum, only to adjust the baggage-door lifting and lowering mechanism. Refer to PRE-MOD [SB145-52-0012](#).

J. Adjustment/Test ([Figure 501](#)) ([Figure 502](#))

SUBTASK 820-002-A

- (1) On aircraft PRE-MOD [SB145-52-0012](#), do the operational test of the baggage-door lifting and lowering mechanism as follows:

**NOTE:** When you replace only one torsion bar, the tension of the other torsion bar must be released before the adjustment of the lifting and lowering mechanism is complete.

- (a) Do a check of the cable tension ( [AMM TASK 52-32-00-200-801-A/600](#)).
- (b) If the cable tension is  $80 \pm 5$  lb, the adjustment is finished.
- (c) If the cable tension is not  $80 \pm 5$  lb, adjust the tension as follows:
- (d) Fully open the baggage door.
- (e) Make sure that the door moves without metal-to-metal rubbing.
- (f) Pull the tension cable down with your hands and, at the same time, lock the support and gears with a safety pin ([ITEM GSE 213](#)) ([Figure 501](#)).
- (g) Slowly move the door down until one of the gear holes is aligned with the support hole behind the drum.

**WARNING: MAKE SURE THAT THE GEAR IS LOCKED. IF NOT, INJURY TO PERSONS CAN OCCUR.**

- (h) Lock the mechanism with the safety pin.
- (i) Move the door up and put the lifting rod on the fuselage resting support.
- (j) Remove the cotter pin, nut, and washer that attach the drum to the mechanism (DET. D in [Figure 501](#)).
- (k) Remove the drum.
- (l) If the cable tension is less than  $80 \pm 5$  lb:
  - 1 Turn the drum clockwise.
- (m) If the cable tension is more than  $80 \pm 5$  lb:

- 1 Turn the drum counterclockwise.
  - (n) Install the drum in the mechanism.
  - (o) Install the washer and nut to attach the drum to the mechanism (DET. D in [Figure 501](#)).
- WARNING: HOLD THE CABLE STRONGLY. IF NOT, INJURY TO PERSONS CAN OCCUR.**
- (p) Pull the tension cable down with your hands and, at the same time, remove the safety pin from the support and gears ([Figure 501](#)).
  - (q) Do a check of the cable tension ([AMM TASK 52-32-00-200-801-A/600](#)).
  - (r) If the tension is not  $80 \pm 5$  lb, go back to step (e). If it is correct, do step (s).
  - (s) Install the cotter pin in the drum (DET. D in [Figure 501](#)).
- (2) On aircraft POST-MOD [SB145-52-0012](#), do the baggage door compensating test/adjustment procedure as follows ([Figure 502](#)):

    - (a) Do a check of the cable tension ([AMM TASK 52-32-00-200-801-A/600](#)).
    - (b) If the cable tension is  $100 \pm 5$  lb, the adjustment is finished.
    - (c) If the cable tension is not  $100 \pm 5$  lb, adjust the tension as follows:

      - (d) Fully open the baggage door.
      - (e) Make sure that the door moves freely along the tracks.
      - (f) Pull the tension cable down with your hands and, at the same time, lock the support and gears with a safety pin ([ITEM GSE 208](#)) ([Figure 502](#)).
      - (g) Slowly move the door down until one of the gear holes is aligned with the support hole behind the drum.
- WARNING: MAKE SURE THAT THE GEAR IS LOCKED. IF NOT, INJURY TO PERSONS CAN OCCUR.**
- (h) Lock the mechanism with the safety pin.
  - (i) Move the door up and put the lifting rod on the fuselage resting support.
  - (j) Remove the cotter pin, nut, and washer that attach the drum to the mechanism (DET. D in [Figure 502](#)).
  - (k) Remove the drum.
  - (l) If the cable tension is less than  $100 \pm 5$  lb:

    - 1 Turn the drum clockwise.
  - (m) If the cable tension is more than  $100 \pm 5$  lb:

    - 1 Turn the drum counterclockwise.

- (n) Install the drum in the mechanism.
- (o) Install the washer and nut to attach the drum to the mechanism (DET. D in [Figure 502](#)).

**WARNING: HOLD THE CABLE STRONGLY. IF NOT, INJURY TO PERSONS CAN OCCUR.**

- (p) Pull the tension cable down with your hands and, at the same time, remove the safety pin from the support and gears ([Figure 502](#)).
- (q) Do a check of the cable tension ( [AMM TASK 52-32-00-200-801-A/600](#)).
- (r) If the tension is not correct, go to step (e). If it is correct, do step (s).
- (s) Install the cotter pin in the drum (DET. D in [Figure 502](#)).

**K. Follow-on**

**SUBTASK 842-002-A**

- (1) Do the operational test of the door.

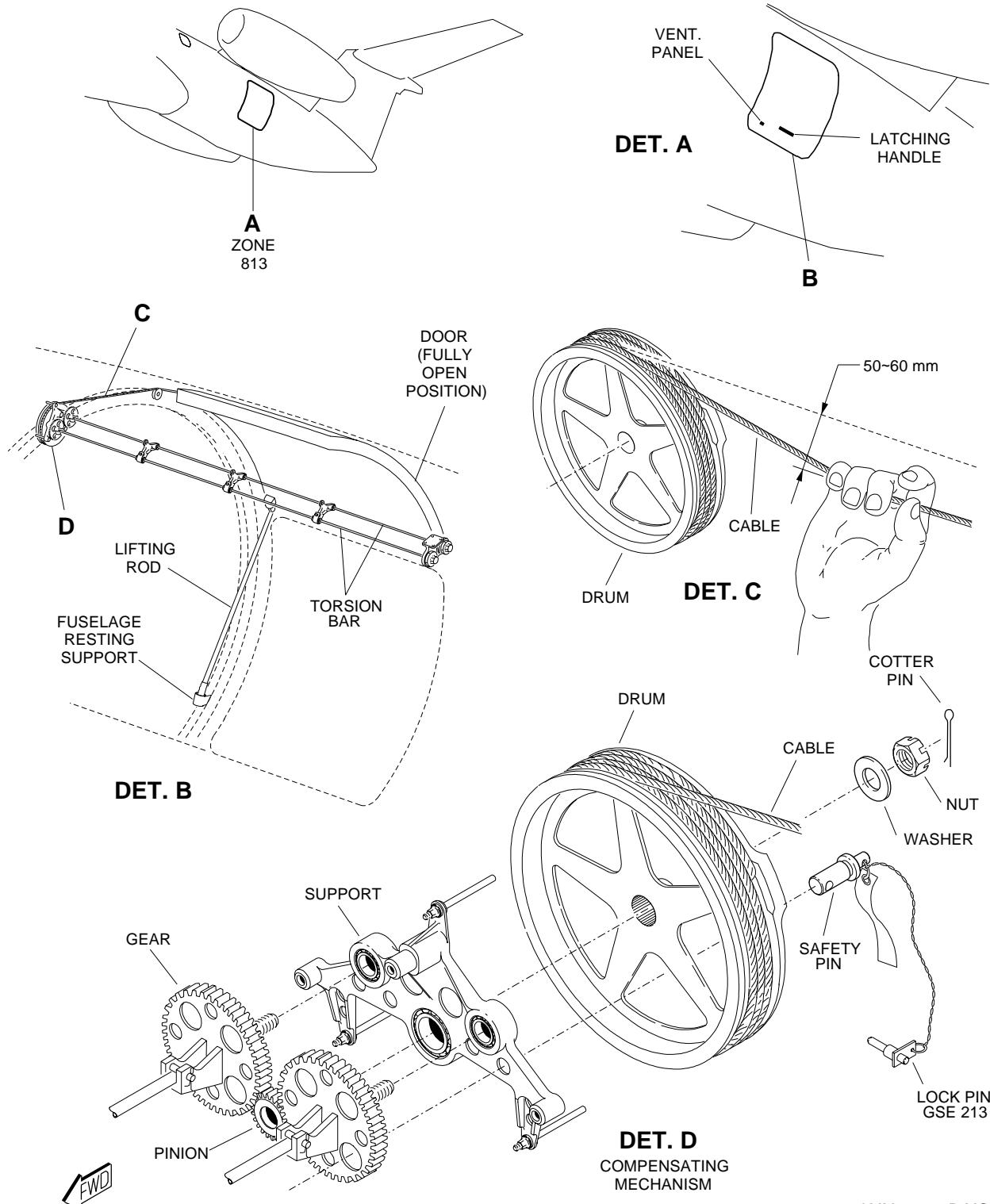
**NOTE:** If necessary, do the procedures above again.

- (2) Install access headliner panel 273BTC ( [AMM MPP 06-41-05/100](#)). Refer to PRE-MOD [SB145-52-0012](#).
- (3) Install the screws and washers (29 positions - refer to POST-MOD [SB145-52-0012](#)) of the cover of the upper middle cargo-compartment liner.
- (4) Close and lock the baggage door.

**EFFECTIVITY: PRE-MOD SB 145-52-0012**

Baggage-Door Lifting and Lowering Mechanism - Component Locations

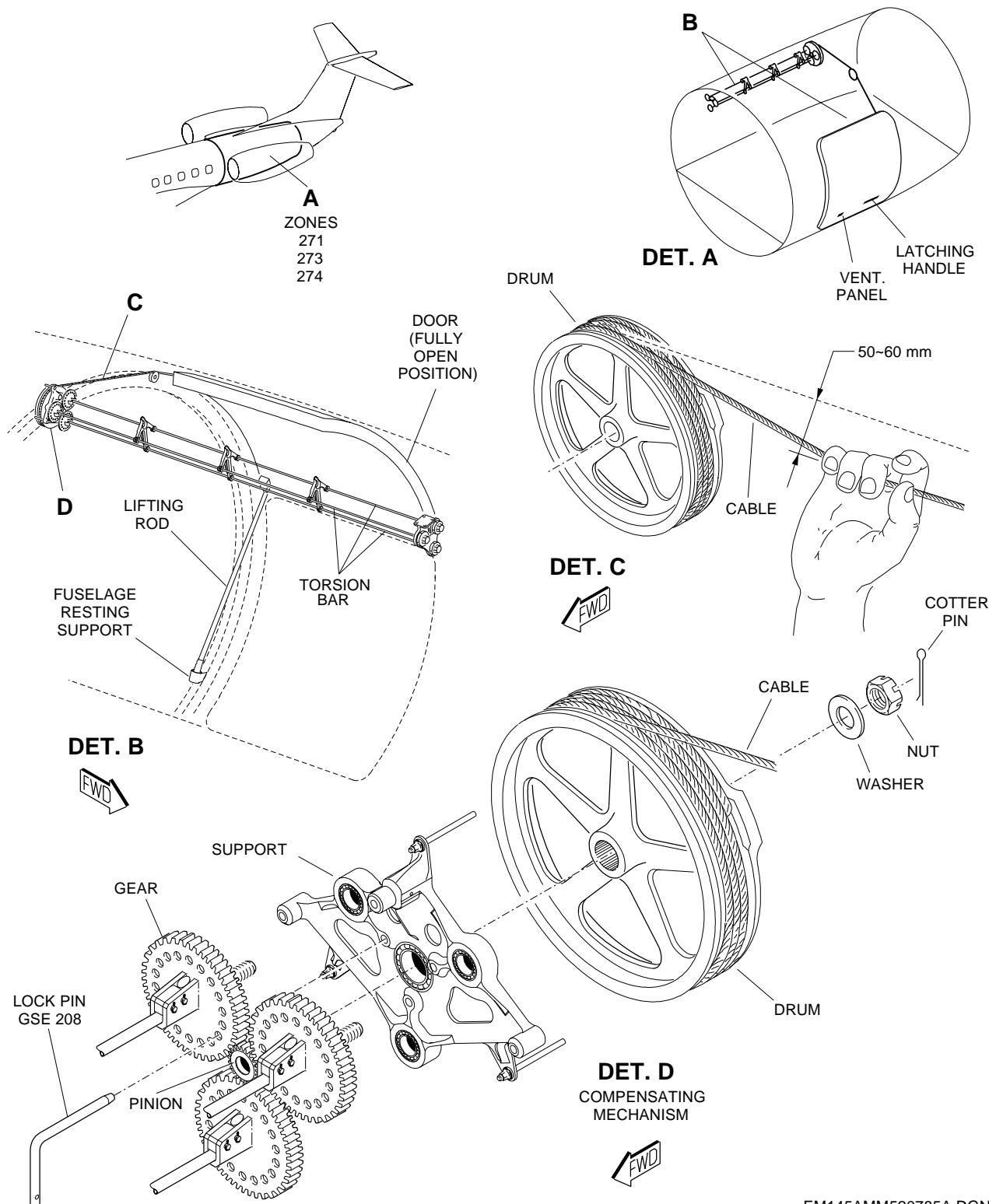
Figure 501



**EFFECTIVITY: POST-MOD SB 145-52-0012**

Baggage-Door Lifting and Lowering Mechanism - Component Locations

Figure 502



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