



AIRCRAFT MAINTENANCE MANUAL

MAIN-DOOR STEP SPRINGS - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR OR ALL, EXCEPT A/C WITH SIDE-HINGED MAIN DOOR, OR PRE-MOD SB 145-52-0005

1. General

- A. This section gives the procedures to remove and install the springs of the first, second, and third steps of the main door.
- B. To remove the springs of the fourth step, refer to ([AMM TASK 52-11-05-000-801-A/400](#)).
- C. To install the springs of the fourth step, refer to ([AMM TASK 52-11-05-400-801-A/400](#)).
- D. 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
52-10-07-000-801-A	MAIN-DOOR STEP SPRINGS - REMOVAL	AIRCRAFT WITH AIR-STAIRS DOOR OR ALL, EXCEPT A/C WITH SIDE-HINGED MAIN DOOR, OR PRE-MOD SB 145-52-0005
52-10-07-400-801-A	MAIN-DOOR STEP SPRINGS - INSTALLATION	AIRCRAFT WITH AIR-STAIRS DOOR OR ALL, EXCEPT A/C WITH SIDE-HINGED MAIN DOOR, OR PRE-MOD SB 145-52-0005



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TASK 52-10-07-000-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR OR ALL, EXCEPT A/C WITH SIDE-HINGED MAIN DOOR, OR PRE-MOD SB 145-52-0005

2. MAIN-DOOR STEP SPRINGS - REMOVAL

A. General

- (1) This task gives the instructions to remove the springs of the first, second, and third steps of the main door.
- (2) The procedure to remove the springs of the fourth step of the main door is given in ([AMM TASK 52-11-05-000-801-A/400](#)).

B. References

REFERENCE	DESIGNATION
AMM SDS 52-10-00/1	
AMM TASK 52-10-02-000-801-A/400	MAIN-DOOR STEP-TREAD LINING PANEL - REMOVAL
AMM TASK 52-10-03-000-801-A/400	MAIN DOOR FIRST SECOND AND THIRD STEPS - REMOVAL
AMM TASK 52-11-05-000-801-A/400	MAIN-DOOR INTERNAL ACTUATING-HANDLE TORQUE TUBE - REMOVAL
S.B.145-52-0023	-

C. Zones and Accesses

Not Applicable

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	Main door

I. Preparation

SUBTASK 841-002-A

- (1) Open the main door ([AMM SDS 52-10-00/1](#)).
- (2) Remove the step-tread lining panel ([AMM TASK 52-10-02-000-801-A/400](#)).



EMB145 – EMB135

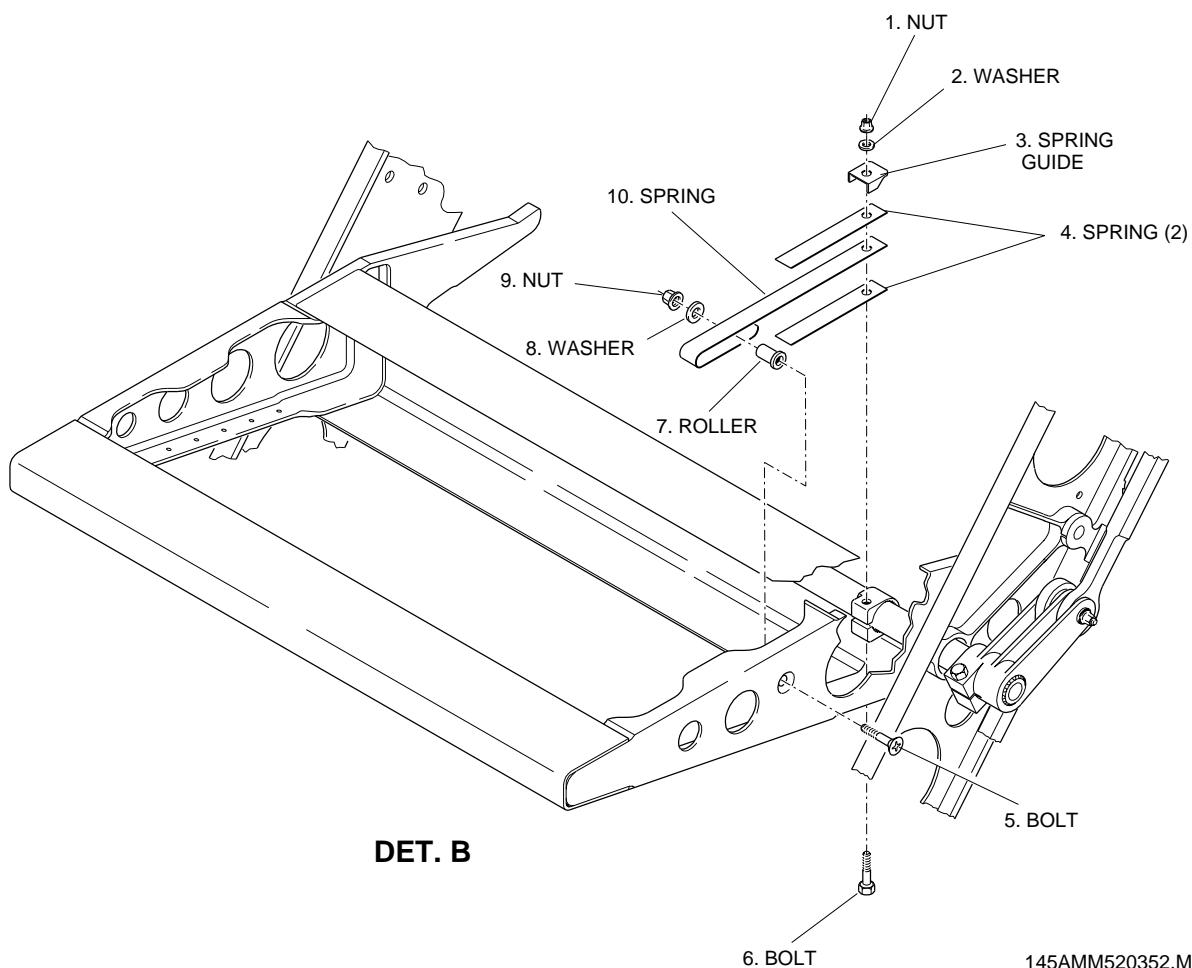
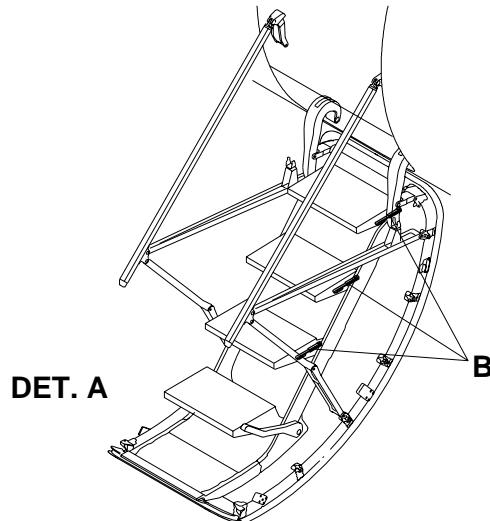
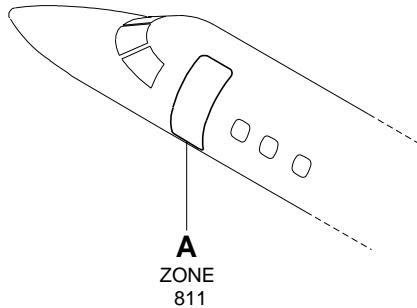
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J. Removal of the Step Springs ([Figure 401](#))

SUBTASK 020-002-A

- (1) For aircraft PRE-MOD. [S.B.145-52-0023](#), remove the step springs as given in ([AMM TASK 52-10-03-000-801-A/400](#)).
- (2) For aircraft POST-MOD. [S.B.145-52-0023](#), refer to ([Figure 401](#)) and remove the step springs as follows:
 - (a) Remove the nuts (1) and (9), washers (2) and (8), spring guide (3), bolt (5), and roller (7).
 - (b) Remove the springs (4) and (10) from the bolt (6).

EFFECTIVITY: POST-MOD. S.B. 145-52-0023
Main-Door Step Springs - Removal/Installation
Figure 401





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TASK 52-10-07-400-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR OR ALL, EXCEPT A/C WITH SIDE-HINGED MAIN DOOR, OR PRE-MOD SB 145-52-0005

3. MAIN-DOOR STEP SPRINGS - INSTALLATION

A. General

- (1) This task gives the instructions to install the springs of the first, second, and third steps of the main door.
- (2) The procedure to install the springs of the fourth step of the main door is given in ([AMM TASK 52-11-05-400-801-A/400](#)).

B. References

REFERENCE	DESIGNATION
AMM SDS 52-10-00/1	
AMM TASK 52-10-02-400-801-A/400	MAIN-DOOR STEP-TREAD LINING PANEL - INSTALLATION
AMM TASK 52-10-03-400-801-A/400	MAIN DOOR FIRST SECOND AND THIRD STEPS - INSTALLATION
AMM TASK 52-11-05-400-801-A/400	MAIN DOOR INTERNAL ACTUATING HANDLE TORQUE TUBE - INSTALLATION
S.B.145-52-0023	-

C. Zones and Accesses

Not Applicable

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	Main door

I. Installation of the Step Springs (Figure 401)

SUBTASK 420-002-A

- (1) For aircraft PRE-MOD. [S.B.145-52-0023](#), install the step springs as given in ([AMM TASK 52-10-03-400-801-A/400](#)).



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- (2) **NOTE:** Obey the installation order and position of the components as shown in (Figure 401).

For aircraft POST-MOD. [S.B.145-52-0023](#), refer to figure 401 and install the step springs as follows:

- (a) Put the bolt (5) and roller (7) in their installation positions.
- (b) Put the springs (4) and (10) in their installation positions in the bolt (6) and in the roller (7).
- (c) Install the spring guide (3), washers (2) and (8), and nuts (1) and (9).

J. Follow-on

SUBTASK 842-002-A

- (1) With the steps fully deployed, check the spring of each step. They must not be tensioned or twisted.
 - (a) A tensioned spring indicates that the shaft of the step or the spring support, is wrongly installed. Remove the shaft of the step and install it back correctly ([AMM TASK 52-10-03-400-801-A/400](#)) and/or ([AMM TASK 52-11-05-400-801-A/400](#)).
- (2) Install the step-tread lining panel ([AMM TASK 52-10-02-400-801-A/400](#)).
- (3) Close the main door ([AMM SDS 52-10-00/1](#)).