

MAIN-DOOR ACTUATION-SYSTEM SPRING ACCUMULATOR - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

1. General

- A. This section gives the procedures to remove and install the spring accumulator of the main-door actuation system.
- 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
52-12-04-000-801-A	MAIN-DOOR ACTUATION-SYSTEM SPRING ACCUMULATOR - REMOVAL	AIRCRAFT WITH AIR- STAIRS DOOR
52-12-04-400-801-A	MAIN-DOOR ACTUATION-SYSTEM SPRING ACCUMULATOR - INSTALLA- TION	AIRCRAFT WITH AIR- STAIRS DOOR

TASK 52-12-04-000-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

2. MAIN-DOOR ACTUATION-SYSTEM SPRING ACCUMULATOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the spring accumulator of the main-door actuation system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose Hydraulic Compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the Hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the Eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).

- (3) Release all the pressure from the hydraulic system ([AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Totally release the pressure from the fluid chamber of the hydraulic accumulator of the main-door actuation system. For this, open the discharge valve and monitor the pressure gage until it shows the nitrogen precharge.
- (5) Release the pressure from the spring accumulator. For this, do the steps below:
 - (a) Open the main-door emergency valve in the cockpit.
 - (b) Manually open and close the main door two or three times.

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

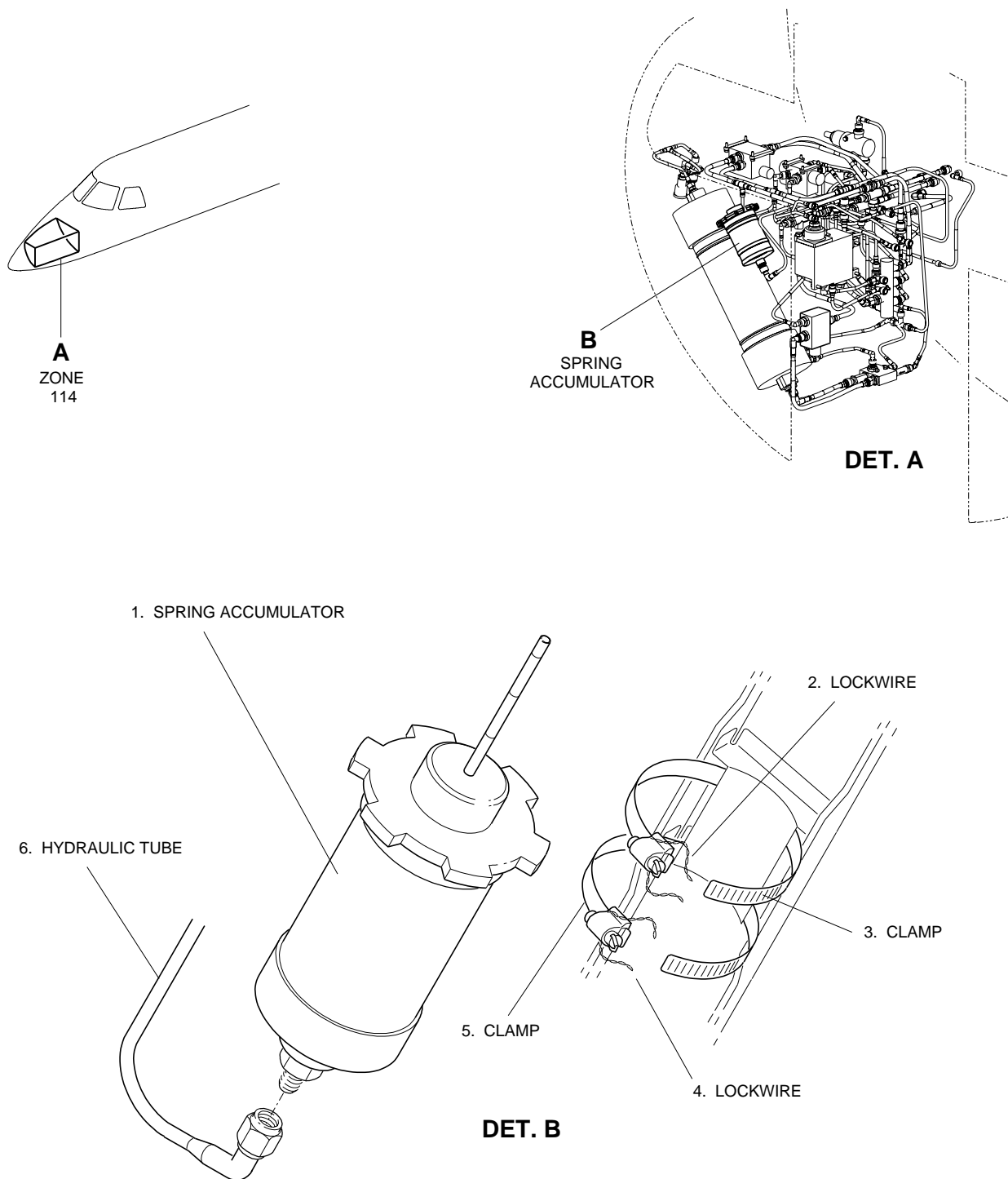
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Disconnect the hydraulic tube (6).
- (2) Cut the lockwires (2) and (4).
- (3) Loosen the clamps (3) and (5).
- (4) Remove the spring accumulator (1).

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Spring Accumulator of the Main-Door Actuation System - Removal/Installation

Figure 401

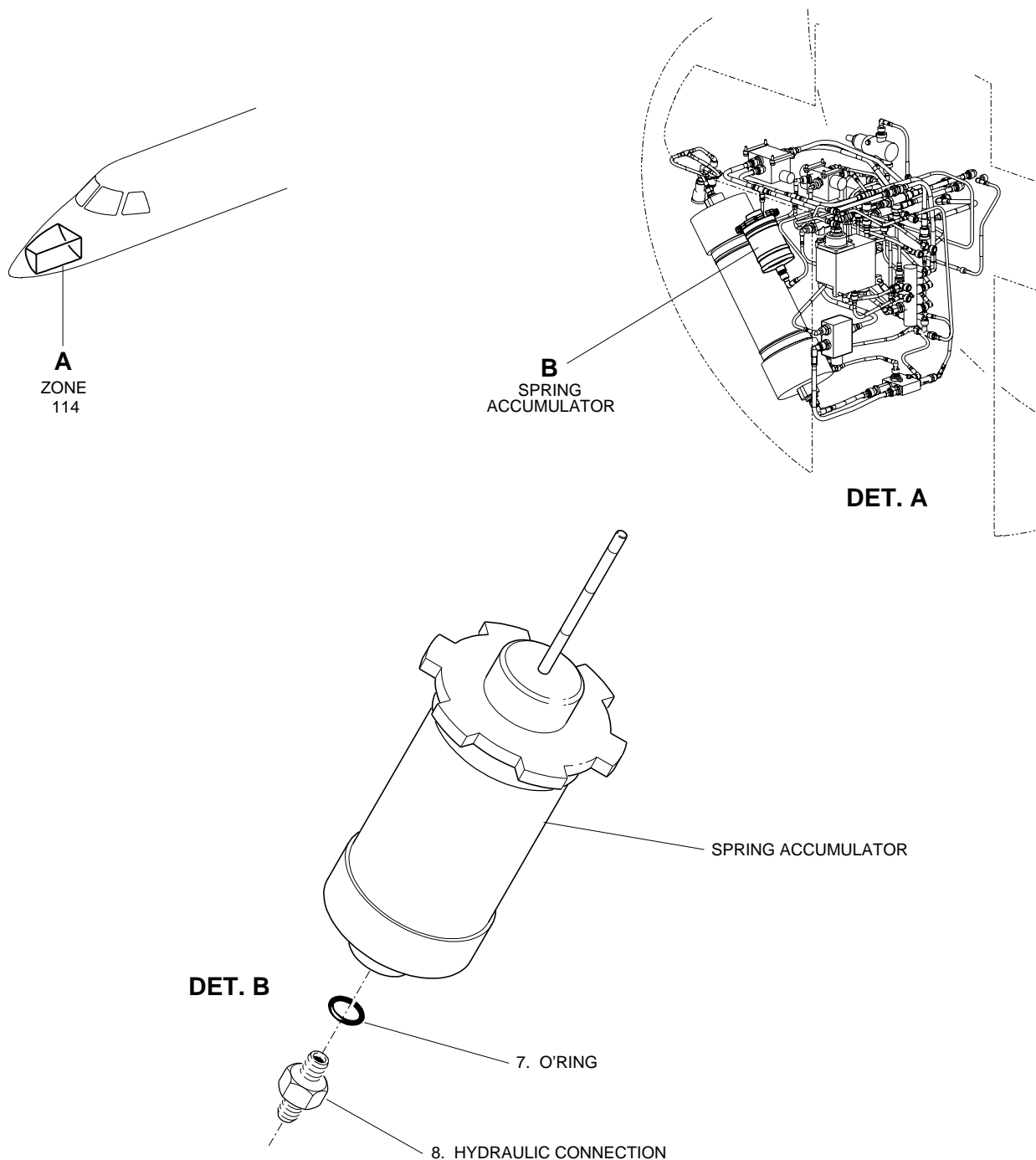


145AMM520010.MCE B

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Spring Accumulator of the Main-Door Actuation System - Removal/Installation

Figure 402



145AMM520011.MCE B

TASK 52-12-04-400-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

3. MAIN-DOOR ACTUATION-SYSTEM SPRING ACCUMULATOR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the spring accumulator of the main-door actuation system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
IPC 52-12-00	MAIN DOOR - LIFTING AND LOWERING SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose hydraulic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O'ring	IPC 52-12-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment

I. Preparation (Figure 402)

SUBTASK 841-003-A

WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Remove and keep the hydraulic connection (8).
- (2) Remove and discard the old O'ring (7).
- (3) Install the new O'ring (7).
- (4) Install the hydraulic connection (8).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the spring accumulator (1) in the clamps (3) and (5).
- (2) Connect the hydraulic tube (6).
- (3) Tighten the clamps (3) and (5).
- (4) Safety the clamps (3) and (5).

K. Follow-on

SUBTASK 842-002-A

- (1) On the Circuit Breaker Panel, close the ELEC PUMP 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Pressurize hydraulic system 1 ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) Do a check on the hydraulic connections of the spring accumulator for leaks.
- (4) Do an operational check of the main door.
- (5) Close access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).

