



# AIRCRAFT MAINTENANCE MANUAL

## DOOR KEYLOCK - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH DOOR LOCK

### 1. General

- A. This section gives the procedures to remove and install the door keylock in the related doors.
- 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
52-00-05-000-801-A	DOOR KEYLOCK - REMOVAL	AIRCRAFT WITH DOOR LOCK
52-00-05-400-801-A	DOOR KEYLOCK - INSTALLATION	AIRCRAFT WITH DOOR LOCK



# AIRCRAFT MAINTENANCE MANUAL

TASK 52-00-05-000-801-A

EFFECTIVITY: AIRCRAFT WITH DOOR LOCK

## 2. DOOR KEYLOCK - REMOVAL

### A. General

- (1) This task gives the procedures to remove the door keylock. This procedure is applicable to all doors where the keylock is installed.

### B. References

REFERENCE	DESIGNATION
AMM TASK 52-11-02-000-801-A/400	MAIN-DOOR EXTERNAL ACTUATING-HANDLE - REMOVAL
AMM TASK 52-31-00-000-801-A/400	BAGGAGE-DOOR ACTUATING AND LOCKING MECHANISM - REMOVAL
AMM TASK 52-42-01-000-801-A/400	COCKPIT UNDERFLOOR ACCESS HATCH - REMOVAL
AMM TASK 52-44-01-000-801-A/400	REAR ELECTRONIC-COMPARTMENT DOOR - REMOVAL
IPC 28-10-00	STORAGE

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
811		Main Door
813		Baggage Door
191		Pressure Fueling/Defueling Access Panel
114		Hydraulic Compartment Access Panel
272		Rear Electronic Compartment Door
123		Cockpit Underfloor Access Hatch
113		Battery Compartment Access Door
113		Forward Electronic Compartment Access Door
114		Forward Electronic Compartment Access Door
541		Gravity Filler Caps

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the door	
Commercially available	Polyethylene Spatula	To remove the sealant	
GSE 478	Wrench Set	To make removal of door locks easier	



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## E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technicians hands	1
Commercially available	Safety Goggles	For protection of technicians hands	1

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM-D-740	Methyl Ethyl Ketone - (MEK)	AR

## G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cap Assy	IPC 28-10-00	2

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	As applicable

## I. Preparation

## SUBTASK 841-002-A

(1) Make sure that the aircraft is safe for maintenance.

(2) Open the door.

## J. Removal (Figure 401) (Figure 402) (Figure 403) (Figure 404)

## SUBTASK 020-002-A

(1) For the main door, baggage door, pressure fueling/defueling access panel, hydraulic compartment access, battery compartment access, and forward electronic compartment access door do as follows:

NOTE: Remove only the applicable door keylock.

(a) Use a spatula to remove the sealant from around the fuselage skin hole and the keylock (7), on the inner surface of the fuselage skin hole.

(b) For the main door keylock, it is necessary to remove the external actuating handle ( [AMM TASK 52-11-02-000-801-A/400](#) ) and for the baggage door it is necessary to remove the actuating mechanism ( [AMM TASK 52-31-00-000-801-A/400](#) ).

(c) Remove the nut (1) and lock washer (3) that attach the lock pawl (4) shown in [Figure 402](#).

- (d) Remove the lock pawl (4).
- (e) Remove the nut (5) and washer (6) that attach the keylock (7).
- (f) Remove the keylock (7).

**WARNING: BE CAREFUL WHEN YOU USE METHYL ETHYL KETONE - (MEK). PUT ON SAFETY GOGGLES AND PROTECTIVE GLOVES AND CLOTHING. DO NOT BREATHE THE GAS. DO THE WORK IN AN AREA WHICH HAS A GOOD FLOW OF AIR. THE METHYL ETHYL KETONE - (MEK) IS POISONOUS AND HIGHLY FLAMMABLE.**

- (g) With a clean cloth soaked in Methyl Ethyl Ketone - (MEK), clean all the area where the work will be done.
- (2) For the rear electronic compartment door and cockpit underfloor access hatch, do as follow:

**NOTE:** Remove only the applicable door keylock.

- (a) Remove the electronic compartment door ([AMM TASK 52-44-01-000-801-A/400](#)) and cockpit underfloor access hatch ([AMM TASK 52-42-01-000-801-A/400](#)) do as follows:
  - (b) Put on a workbench.
  - (c) Use a spatula to remove the sealant from around the fuselage skin hole and the keylock (7), on the inner surface of the fuselage skin hole.
  - (d) Remove the nut (1) and lock washer (3) that attach the lock pawl (4).

**NOTE:** Hold the nut (1) with the wrench (GSE 478) shown in [Figure 403](#).

- (e) Remove the lock pawl (4).
- (f) Remove the nut (5) and washer (6) that attach the keylock (7).
- (g) Remove the keylock (7).

**WARNING: BE CAREFUL WHEN YOU USE METHYL ETHYL KETONE - (MEK). PUT ON SAFETY GOGGLES AND PROTECTIVE GLOVES AND CLOTHING. DO NOT BREATHE THE GAS. DO THE WORK IN AN AREA WHICH HAS A GOOD FLOW OF AIR. THE METHYL ETHYL KETONE - (MEK) IS POISONOUS AND HIGHLY FLAMMABLE.**

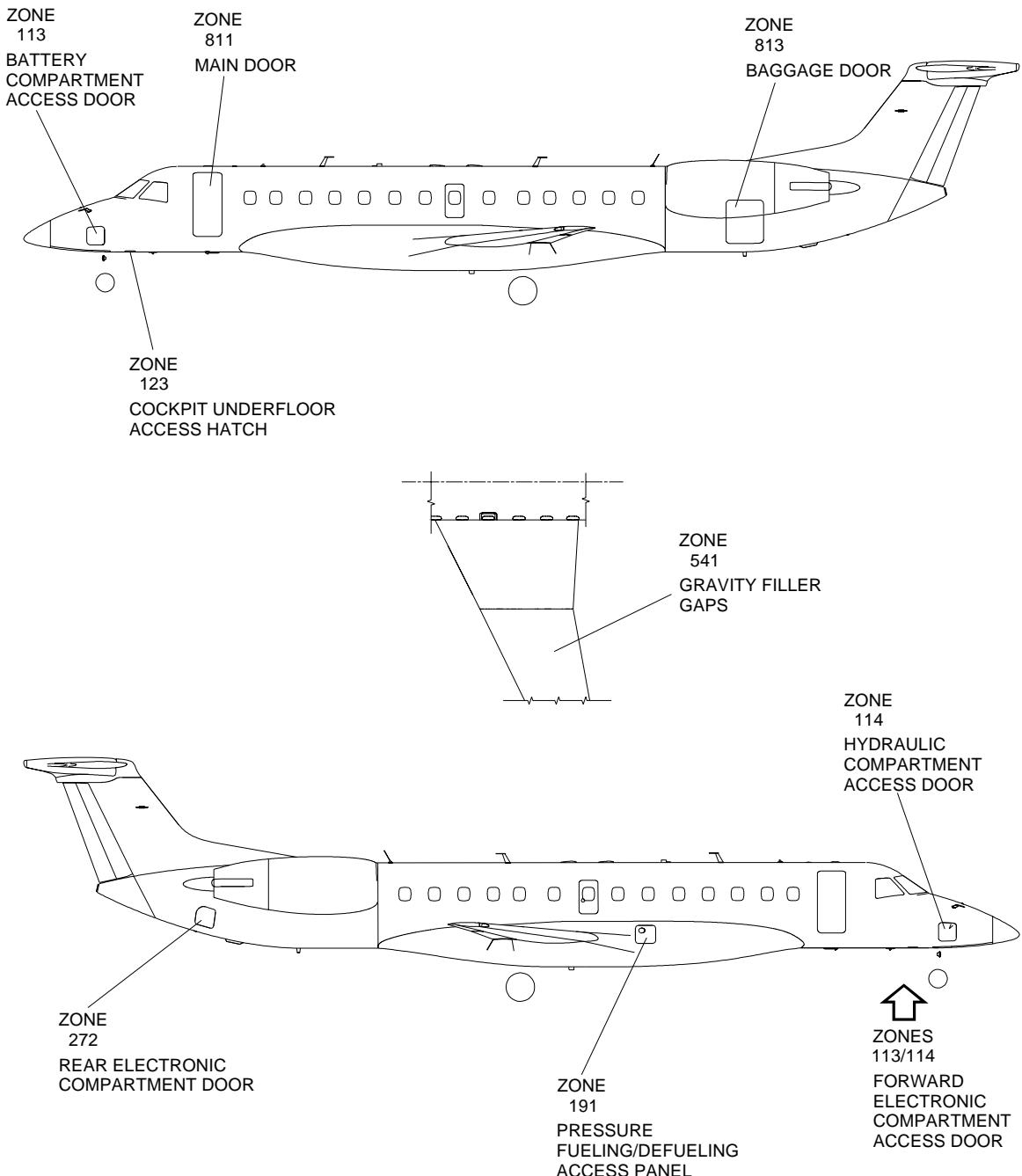
- (h) With a clean cloth soaked in Methyl Ethyl Ketone - (MEK), clean all the area where the work will be done.
- (3) For remove the gravity cap, do as follows:

- (a) Remove and discard the gravity cap shown in [Figure 404](#).

**EFFECTIVITY: AIRCRAFT WITH DOOR LOCK**

Door Lock Location

Figure 401

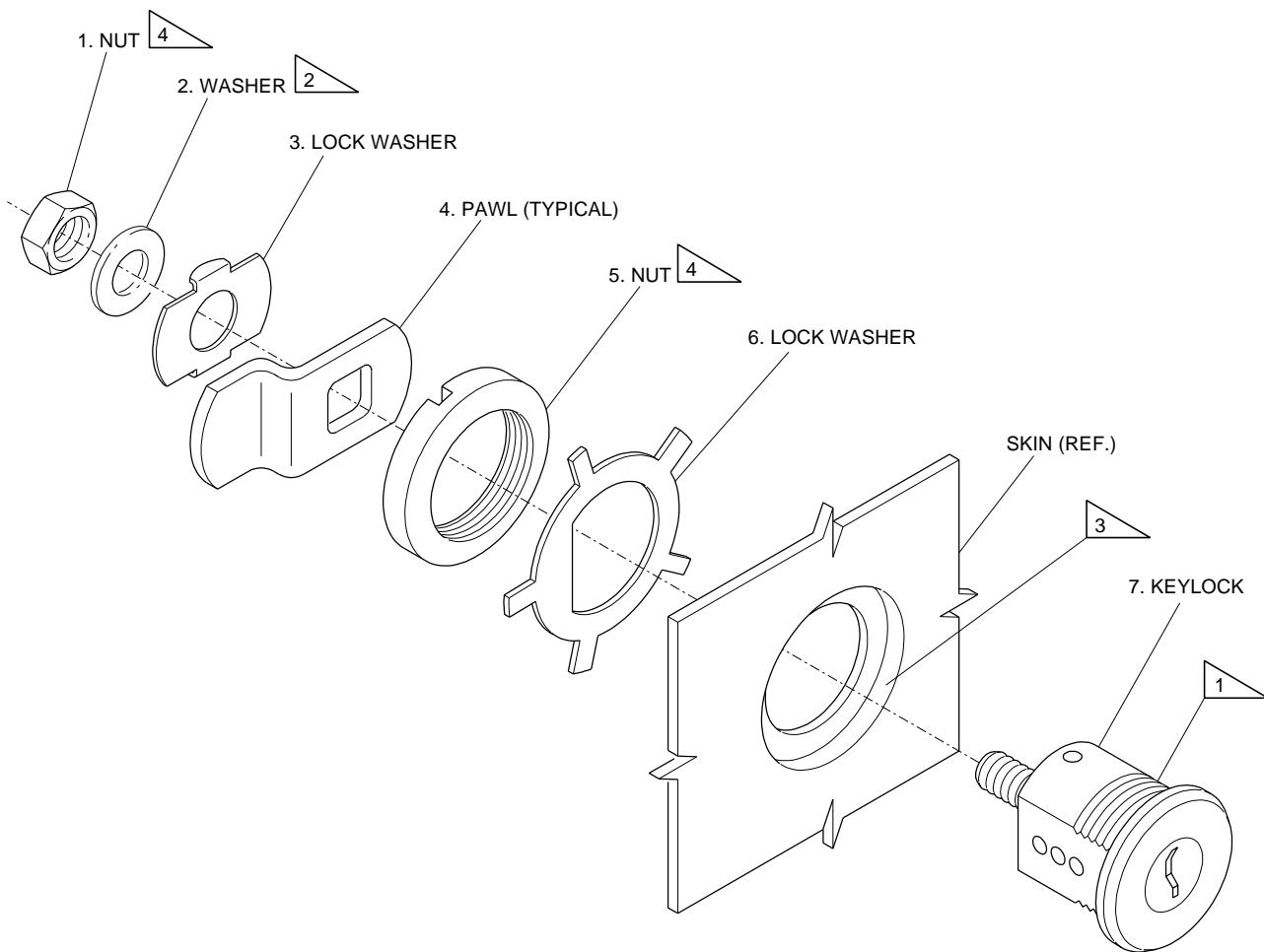


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**EFFECTIVITY: AIRCRAFT WITH DOOR LOCK**

Door Keylock - Removal/Installation

Figure 402



1 ▲ APPLY CA 1000.

2 ▲ ADD WASHER, IF NECESSARY.

3 ▲ APPLY AERODYNAMIC SEALANT P/S 870 B2.

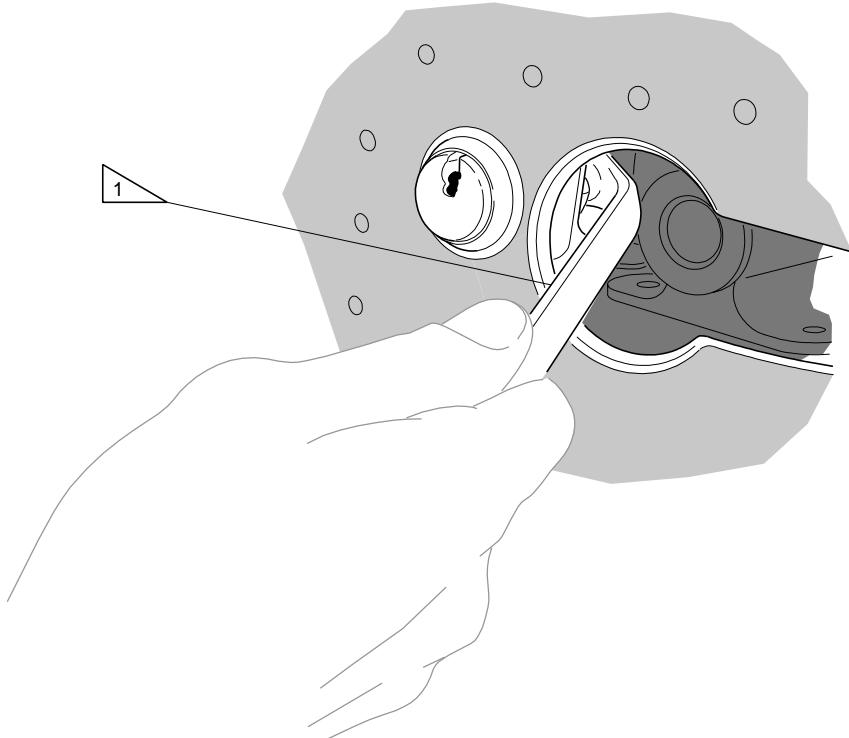
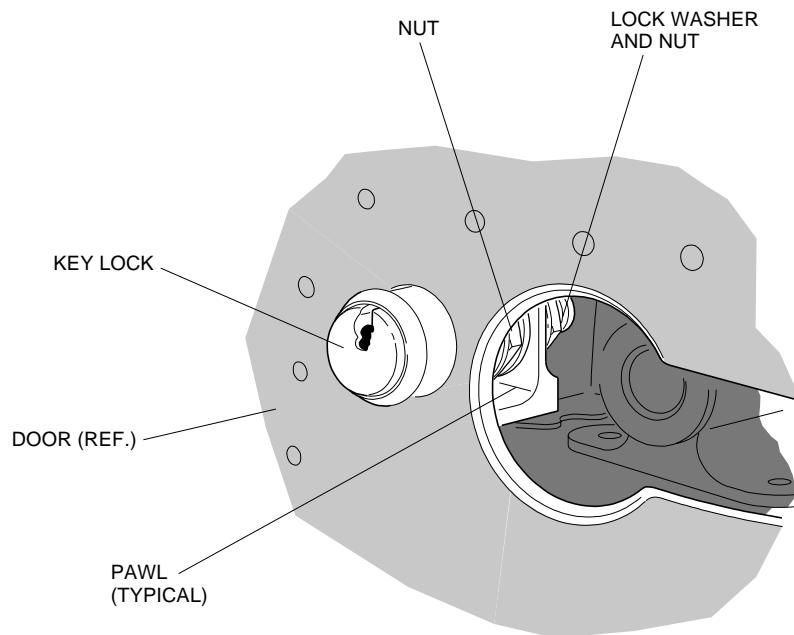
4 ▲ MAINTENANCE PRACTICES TASK 20-10-01-2, FOR TORQUE.

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**EFFECTIVITY: AIRCRAFT WITH DOOR LOCK**

Door Keylock - Removal/Installation

Figure 403



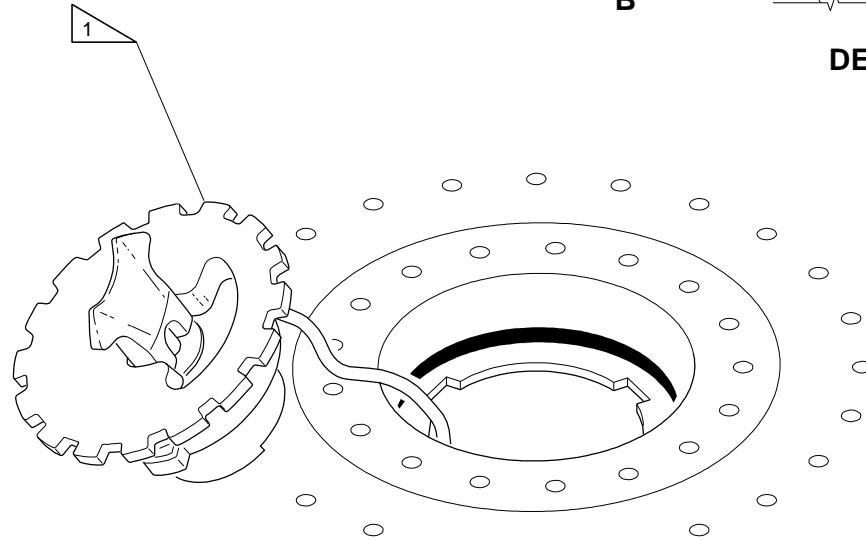
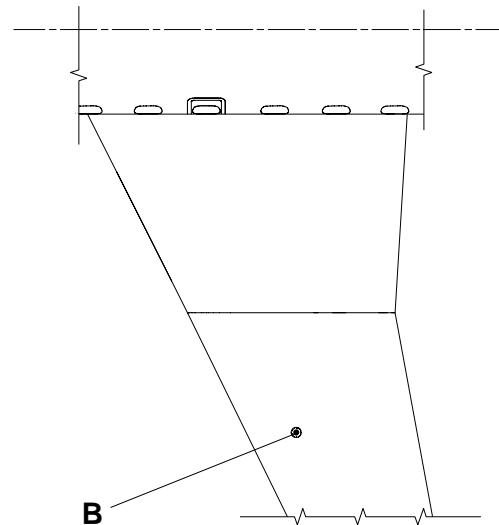
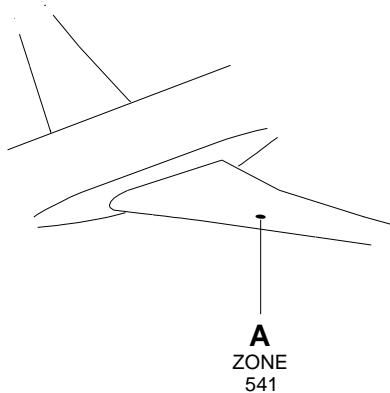
 GSE 478.

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**EFFECTIVITY: AIRCRAFT WITH DOOR LOCK**

Filler Caps - Removal/Installation

Figure 404



 **FILLER CAP (TWO POSITIONS). INSTALL.**

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**TASK 52-00-05-400-801-A**
**EFFECTIVITY: AIRCRAFT WITH DOOR LOCK**
**3. DOOR KEYLOCK - INSTALLATION**
**A. General**

- (1) This task gives the procedures to install the door keylock. This procedure is applicable to all doors where the keylock is to be installed.

**B. References**

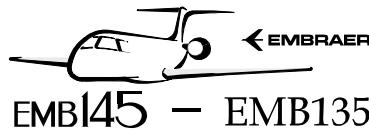
<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 52-11-02-400-801-A/400	MAIN-DOOR EXTERNAL ACTUATING-HANDLE - INSTALLATION
AMM TASK 52-31-00-400-801-A/400	BAGGAGE-DOOR ACTUATING AND LOCKING MECHANISM - INSTALLATION
AMM TASK 52-42-01-400-801-A/400	COCKPIT UNDERFLOOR ACCESS HATCH - INSTALLATION
AMM TASK 52-44-01-400-801-A/400	REAR ELECTRONIC-COMPARTMENT DOOR - INSTALLATION
IPC 28-10-00	STORAGE
SRM 51-20-01-PR	-

**C. Zones and Accesses**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
811		Main Door
813		Baggage Door
191		Pressure Fueling/Defueling Access Panel
114		Hydraulic Compartment Access Panel
272		Rear Electronic Compartment Door
123		Cockpit Underfloor Access Hatch
113		Battery Compartment Access Door
113		Forward Electronic Compartment Access Door
114		Forward Electronic Compartment Access Door
541		Gravity Filler Caps

**D. Tools and Equipment**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Workstand	To get access to the door	
Commercially available	Polyethylene Spatula	To remove the sealant	



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(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 478	Wrench Set	To make installation of door locks easier	

## E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protections of the technicians hands	1
Commercially available	Safety Goggles	For protections of the technicians hands	1

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 09-060	Corrosion-Inhibiting Compound (CA-1000)	AR
MIL-PRF-81733 TYPE II-2	Sealant, P/S 870 - B 2	AR

## G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cap Assy	IPC 28-10-00	2

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	As applicable

## I. Installation (Figure 401) (Figure 402) (Figure 403) (Figure 404)

## SUBTASK 420-002-A

- (1) For the main door, baggage door, pressure fueling/defueling access panel, hydraulic compartment access, battery compartment access, and forward electronic compartment access door, do as follows:

**WARNING: CA-1000 CORROSION INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE GOGGLES AND PROTECTIVE GLOVES. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.**

- (a) Apply CA 1000 and put the keylock (7) in position (SRM 51-20-01-PR).
- (b) Install the washer (6) and nut (5) that attach the keylock (1).

NOTE: Look to know the position of the washer (6) and nut (5) as shown in (Figure 402).

- (c) Put the lock pawl (4) in position.

- (d) Install the lock washer (3), washer (2) (if necessary), and nut (1) that attach the lock pawl (4).
  - (e) Apply aerodynamic sealant P/S 870 B2 along the contour of the keylock (7), on the skin (SRM 51-20-01-PR).
  - (f) For the main door, install the external actuating handle ([AMM TASK 52-11-02-400-801-A/400](#)) and for baggage door, install the actuating mechanism ([AMM TASK 52-31-00-400-801-A/400](#)).
- (2) For the rear electronic compartment door and cockpit underfloor access hatch, do as follows:

**WARNING: CA-1000 CORROSION INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE GOGGLES AND PROTECTIVE GLOVES. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURER'S HEALTH AND SAFETY INSTRUCTIONS.**

- (a) Apply CA 1000 and put the keylock (7) in position (SRM 51-20-01-PR).

- (b) Install the washer (6) and nut (5) that attach the keylock (1).

**NOTE:** Look to know the position of the washer (6) and nut (5) as shown in (Figure 402).

- (c) Put the lock pawl (4) in position.

- (d) Install the lock washer (3), washer (2) (if necessary), and nut (1) that attach the lock pawl (4).

**NOTE:** Hold the nut (1) with the wrench (GSE 478) as shown in (Figure 403).

- (e) Apply aerodynamic sealant P/S 870 B2 along the contour of the keylock (7), on the skin (SRM 51-20-01-PR).

- (f) Install the electronic compartment door ([AMM TASK 52-44-01-400-801-A/400](#)) and the cockpit underfloor access hatch ([AMM TASK 52-42-01-400-801-A/400](#)) as follows:

- (3) For the gravity caps, do as follow:

- (a) Install the new gravity cap as shown in (Figure 404).

**NOTE:** Refer to IPC 28-10-00.

#### J. Follow-on

##### SUBTASK 842-002-A

- (1) Close the door.

- (2) Lock and unlock the door with the key to make sure that the keylock operates correctly.

