



# INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

## PILOT AND CO-PILOT LOWER INTERIOR DOOR PANELS FOR CESSNA MODELS 208 AND 208B

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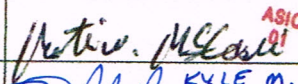
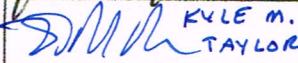
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<b>REVISION HISTORY</b>				
<b>Rev.</b>	<b>Prepared By:</b>	<b>Date</b>	<b>Description of Changes</b>	<b>Approved By:</b>
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1	Kevin J. Burrow	09/26/2016	Updated Table of Contents Added Table of Figures Added Para. 0.6.1 Updated Figure 1.1 Added Para. 0.6.2 Added Figure 1.2 Added Para. 0.6.3 Added Figure 1.3 Updated Para. 8.0 Reworded Para. 11.0 Updated Figure 11.1 Updated Figure 11.2 Added Figure 11.3 Added Figure 11.4 Added Figure 11.5 Added three new door panel configurations. Each new configuration includes a pocket specifically for oxygen mask storage. New placards are added denoting the mask access for the affected panels	Kyle M. Taylor

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## CHAPTER 0 – INTRODUCTION

### 0.0 Purpose

The purpose of this document is to provide Instructions for Continued Airworthiness (maintenance instructions) for the Pilot and Co-Pilot Lower Interior Door Panels for Cessna Model 208 and 208B aircraft.

### 0.1 Scope

The scope of this document is limited to the components associated with the installation of the Pilot and Co-Pilot Lower Interior Door Panels.

This data is limited to the following Cessna Model aircraft:

- 208
- 208B

### 0.2 Units of Measure

Units are in inches, pounds, and inch-pounds unless otherwise specified.

### 0.3 Definitions

- Arm            Distance from the aircraft datum to unit CG.
- Caution       Highlights instructions that if ignored could damage equipment.
- Warning       Highlights instructions that if ignored could cause injury, loss of life, or loss of aircraft.

### 0.4 Abbreviations

- FAA            Federal Aviation Administration
- ASIC           Aircraft Structures International Corp.
- AFMS          Aircraft Flight Manual Supplement
- CG             Center of Gravity
- BL             Butt Line
- IAW            In Accordance With
- psi             Pounds per Square Inch
- ml             Milliliter
- lbs             Pounds
- in             Inch

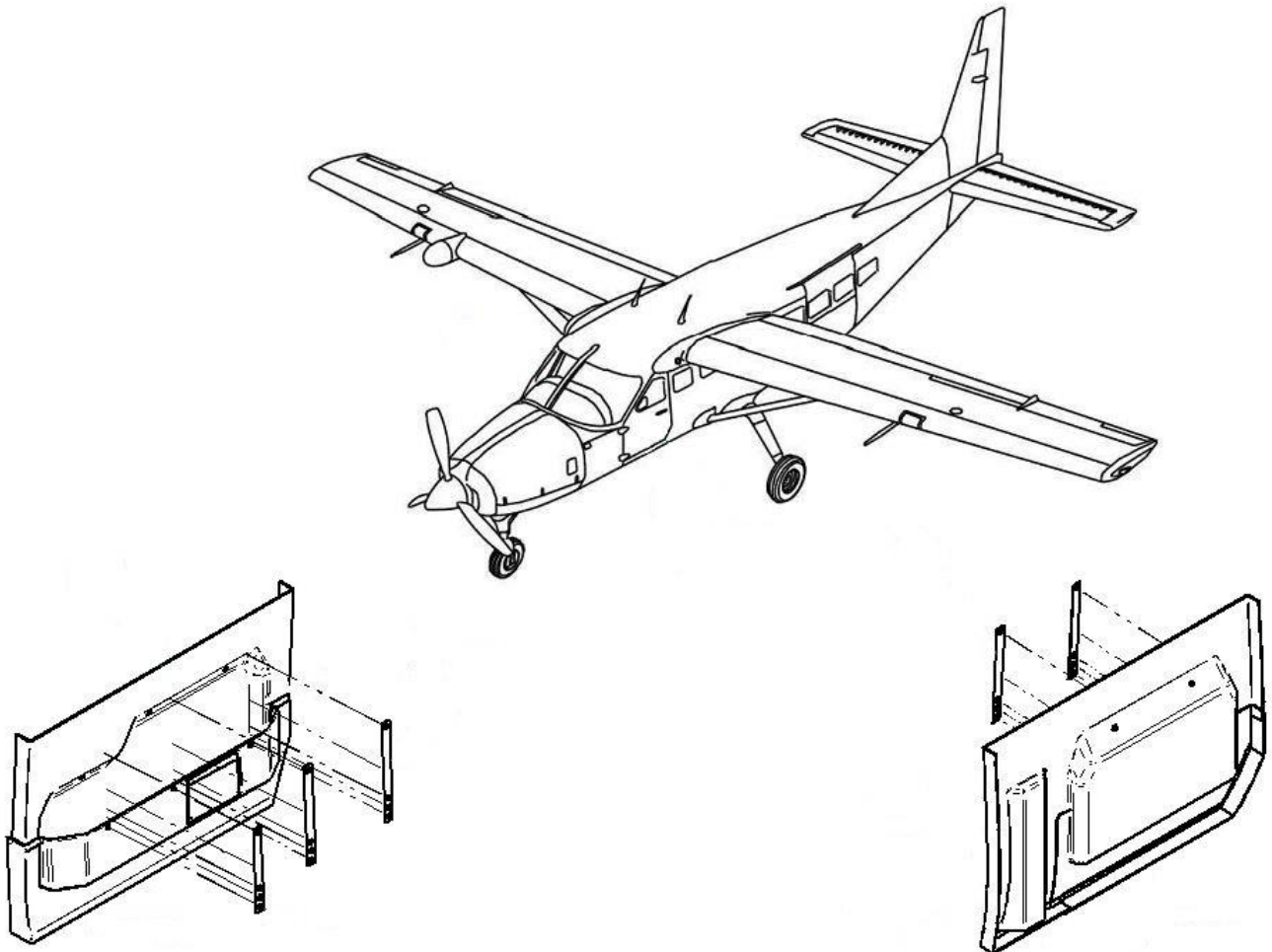
## 0.5 Revision Distribution

It is the responsibility of the operator of the modified aircraft to advise ASIC of any address change. ASIC will provide, by mail or e-mail, all operators of this system with revisions to this document as they occur.

## 0.6 System Description

### 0.6.1 Direct OEM Replacement

The ASIC Pilot and Co-Pilot Lower Interior Door Panels are a direct replacement for the OEM panels and use the same attachment locations and hardware as the OEM panels. The weight difference between the ASIC door panels and the OEM panels is insignificant. Each door panel has a pocket to store items and has been placarded for a maximum weight. The Pilot door panel has been provisioned to install a fire extinguisher, not all aircraft have the fire extinguisher installed on the door from the OEM.

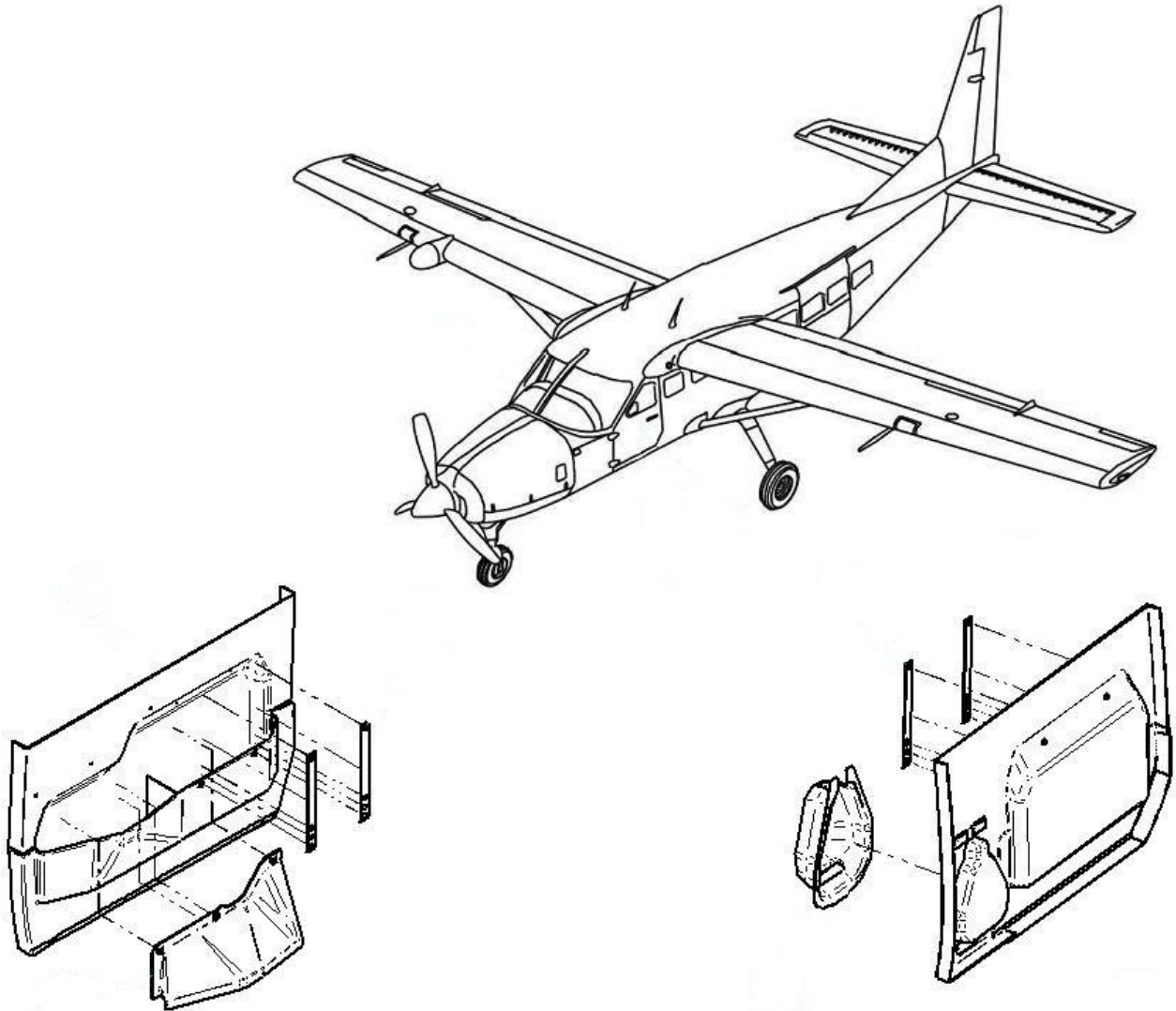


**Figure 1.1**

Cessna 208 / 208B Pilot and Co-Pilot Lower Interior Door Panel Installation

### 0.6.2 Replacement with EROS MF10 Smoke Mask & OEM Oxygen Mask Stowage

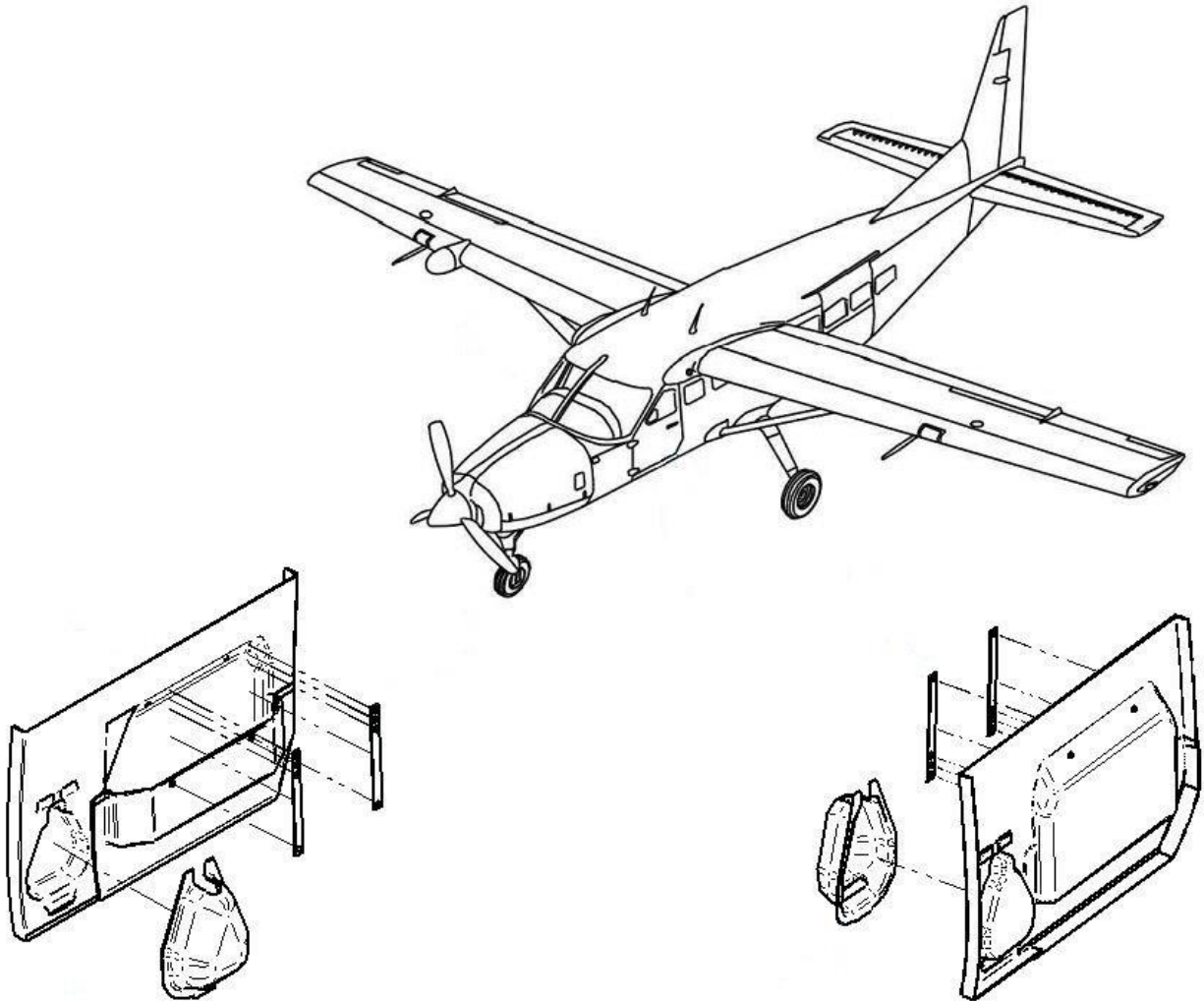
The ASIC Pilot and Co-Pilot Lower Interior Door Panels with stowage for the EROS MF10 Smoke Mask & OEM Oxygen Mask are a direct replacement for the OEM panels and use the same attachment locations and hardware as the OEM panels. The weight difference between the ASIC door panels and the OEM panels is insignificant. Each door panel has a pocket to store items and has been placarded for a maximum weight. The Pilot door panel has been provisioned to stow the EROS MF10 Smoke Mask and the Co-Pilot door panel has been provisioned to stow the OEM Oxygen Mask.



**Figure 1.2**  
Replacement with EROS MF10 Smoke Mask & OEM Oxygen Mask Stowage

### 0.6.3 Replacement with Dual EROS MF10 Smoke Mask Stowage

The ASIC Pilot and Co-Pilot Lower Interior Door Panels with stowage for the EROS MF10 Smoke Masks on both doors are a direct replacement for the OEM panels and use the same attachment locations and hardware as the OEM panels. The weight difference between the ASIC door panels and the OEM panels is insignificant. Each door panel has a pocket to store items and has been placarded for a maximum weight. The Pilot and Co-Pilot door panels have been provisioned to stow the EROS MF10 Smoke Mask in each door panel.



**Figure 1.3**  
Replacement with Dual EROS MF10 Smoke Mask Stowage



## CHAPTER 4 – AIRWORTHINESS LIMITATION SECTION

**There are no Airworthiness Limitations.**

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required per 14 CFR §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

No life limitations are associated with this modification.

## CHAPTER 5 – INSPECTION REQUIREMENTS & OVERHAUL SCHEDULE

### 5.0 Inspections

For Continued Airworthiness of the Pilot and Co-Pilot Lower Interior Door Panels the following inspections are required.

Daily	100 Hr / Annual	500 Hr	Special (See Notes)	Inspection
X	X	X	[1]	<p><b>Pilot and Co-Pilot Lower Door Panel Assembly (General Condition)</b></p> <p>The lower door panel assemblies need to be visually inspected during pre-flight and post-flight. Visually inspect the lower door panel assemblies during pre-flight and post flight. Inspect for cracks and security of door pocket and hardware. If damage has been noted reference Chapter 25 for guidance or contact maintenance for corrective action.</p> <p>Visually inspect all exposed fasteners for proper installation. The entire lower door panel assemblies should be firmly attached to the aircraft door and should resist movement in any direction. Removal/Installation of the lower door panel assemblies is accomplished per instructions in Chapter 6.</p>

[1] Perform inspection after hard landing.

### 5.1 Component Overhaul

No component overhaul required for this STC.

## CHAPTER 6 – DIMENSIONS & ACCESS

### 6.0 Major Component Removal & Installation

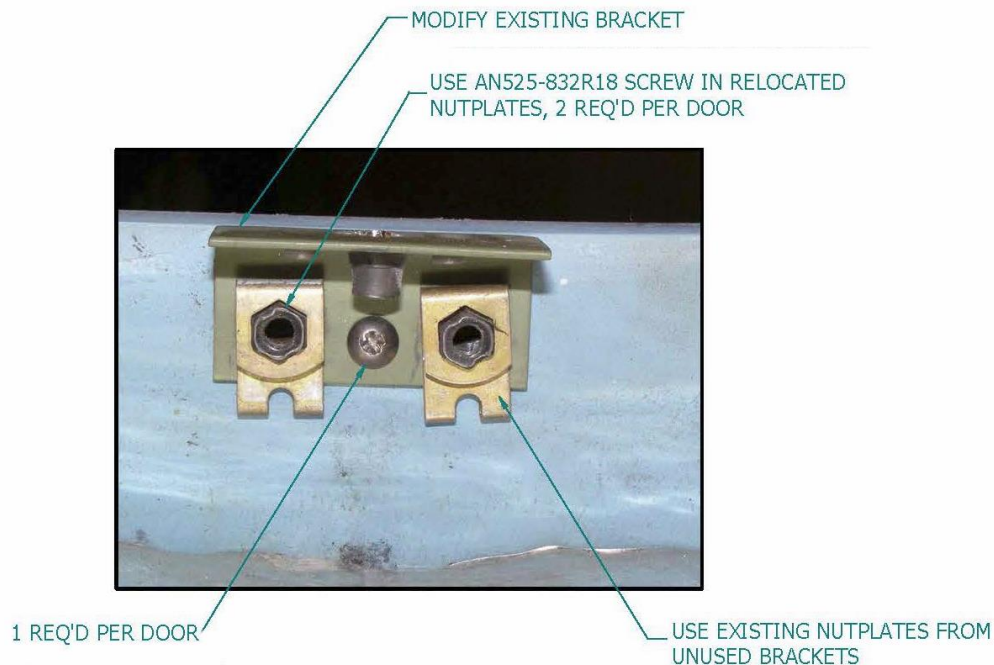
Any drawings/documents necessary for removal/installation and maintenance of the Pilot and Co-Pilot Lower Interior Door Panels will be provided in ASIC Product Support Package delivered with the system. The package provides all information for replacement parts, installation/assembly drawings/documents.

Following the initial installation of the Pilot and Co-Pilot Lower Door Panels, components can be removed and reinstalled with a logbook entry. No changes to the aircraft Weight & Balance and Aircraft Equipment List required.

### 6.1 Pilot & Co-Pilot Lower Door Panel Initial Installation

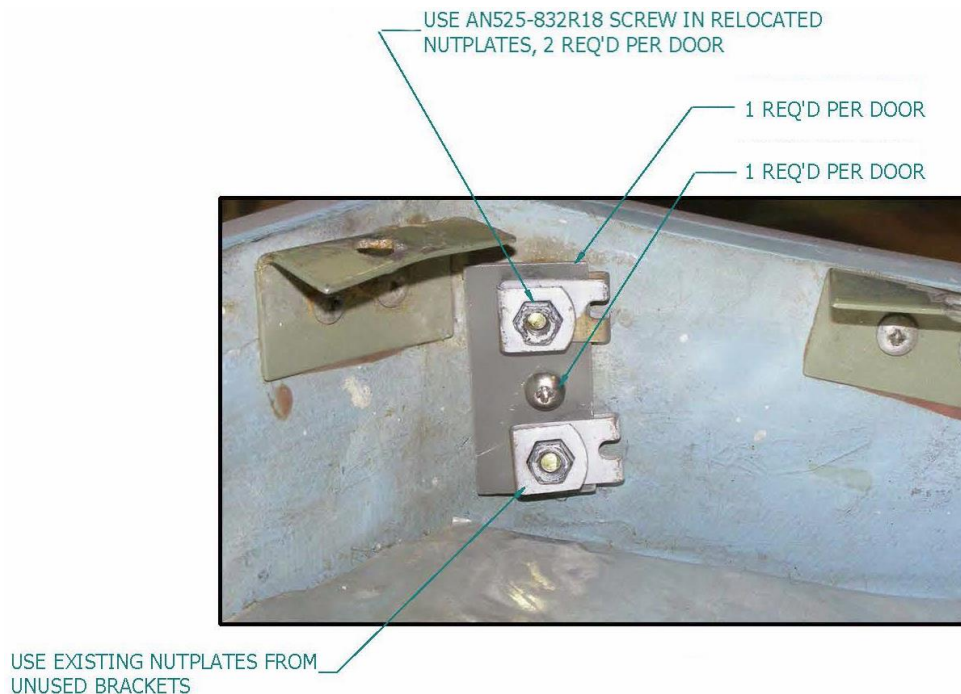
Reference Figures 6.1 & 6.2

1. Remove existing aircraft lower pilot and co-pilot door panels IAW Cessna MM 52-11-00, Fig 201, Cessna MM 25-23-00, Fig 203 and IPC 25-10-02, Fig 01.
2. Remove mounting clips from front edge, and foremost two clips from lower edge of door.
3. Clean inside aircraft door; ensure that all dust, debris and dirt have been removed.
4. Trim and Fit ASIC panels, P/N 09251030-001, -002, -015, -018, and/or -019 as needed dependent upon the applicable configurational needs.
5. Drill #43 dia. hole in center of existing bracket. Remove bracket and install nutplates from unused brackets or nutplates (P/N SL211-08-1) provided by ASIC. Reinstall bracket with AN527D4R8 screw (see Fig. 6.1).



**Figure 6.1**  
Cessna 208 / 208B Bracket / Nutplate Assembly

6. Remove existing hardware, match drill existing holes in P/N 09251040-011. Install nutplates from unused brackets or STC Kit. Temporarily install hardware to drill #43 dia. hole in center of P/N 09251040-011 (See Fig. 6.2).



**Figure 6.2**  
Cessna 208 / 208B Bracket / Nutplate Assembly

7. Match drill (#43 dia. hole approximately 1" from face of panel) ASIC door panel with existing door panel mounting nutplates, 12 places each door.
8. Attach ASIC door panel to aircraft door with AN527D4-R8 (12 pls.) screw.
9. Install door handle and fire extinguisher (if applicable) IAW Cessna MM 52-11-00, Figure 201.

## 6.2 Pilot & Co-Pilot Lower Interior Door Panel Removal

1. Remove door handle and fire extinguisher (if applicable) IAW Cessna MM 52-11-00, Figure 201.
2. Remove all lower door panel mounting hardware (AN527D4-R8) 12 places.
3. Remove lower door panel.

## 6.3 Pilot & Co-Pilot Lower Interior Door Panel Reinstallation

1. Position lower door panel on door and install AN527D4-R8 (12 pls.) screw.
2. Install door handle and fire extinguisher (if applicable) IAW Cessna MM 52-11-00, Figure 201.

## **CHAPTER 8 – COMPLETION OF AIRCRAFT WEIGHT & BALANCE**

### **8.0 Weight & Balance Calculations**

The ASIC direct OEM replacement Pilot and Co-Pilot Lower Interior Door Panels have the equivalent weight of the OEM panels with the same placarded maximum allowable weight for contents in each of the door pockets.

The ASIC Pilot and Co-Pilot Lower Interior Door Panels with stowage for the EROS MF10 Smoke Mask & OEM Oxygen Mask have the equivalent weight of the OEM panels with placarding that reduces the maximum allowable weight for contents in each of the door pockets in order to compensate for the weight of the masks. This restricts the overall maximum allowable weight limit to be equal to the OEM panel's maximum allowable weight for the panels.

### **8.1 Aircraft Equipment List**

No change required to the aircraft equipment list.

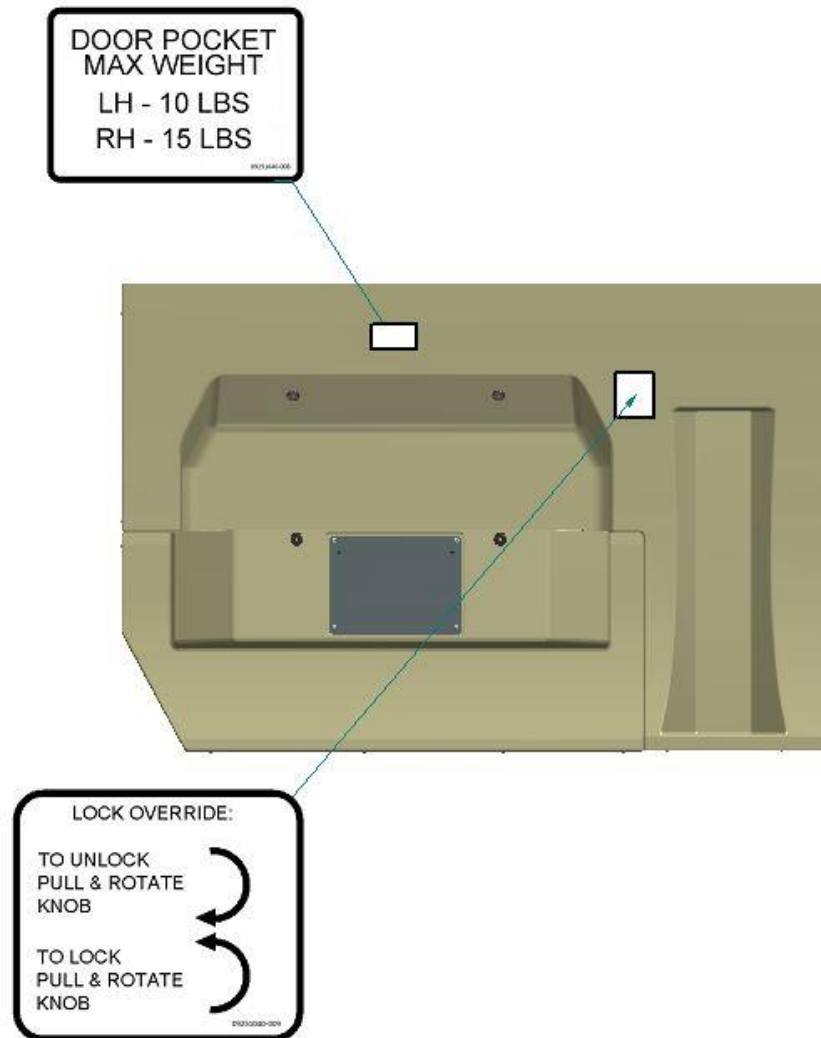
## CHAPTER 11 – PLACARDS & MARKINGS

### 11.0 Placard Removal & Installation

1. Remove placard by peeling off old placard from equipment.
2. Clean area with denatured or isopropyl alcohol.
3. Attach new placard to equipment in original location. Press firmly on placard surface to ensure proper adhesion.

### 11.1 System Placards

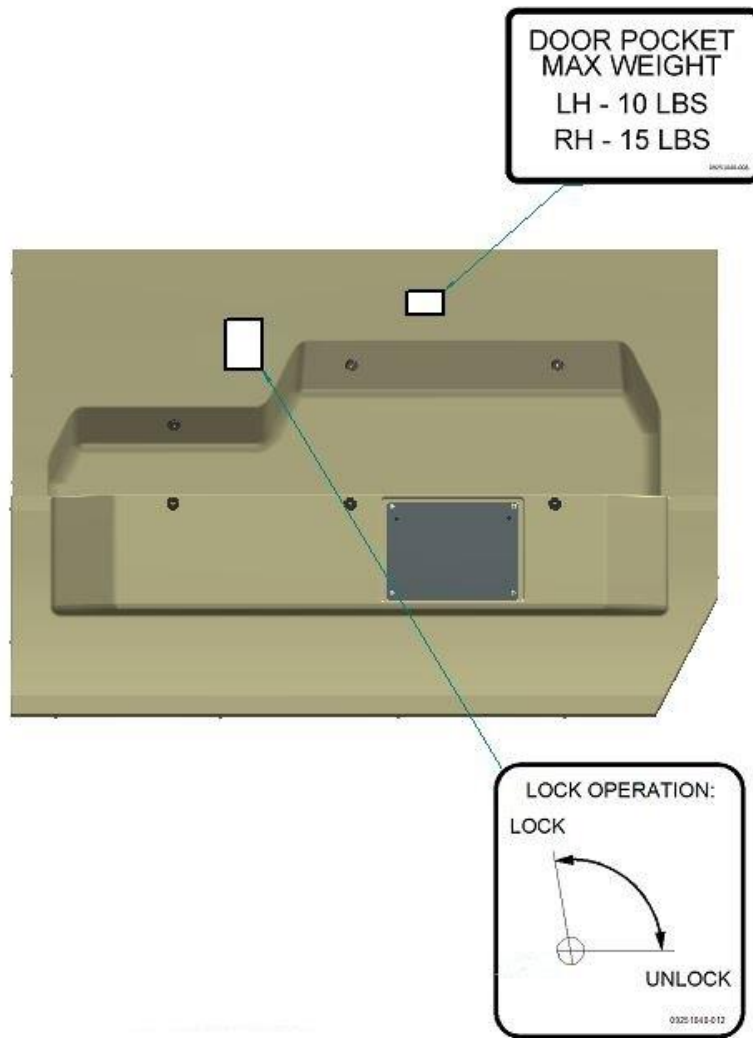
1. Direct OEM Replacement Pilot Lower Interior Door Panel Assembly.



**Figure 11.1**  
 Pilot Lower Door Panel Assembly – P/N 09251030-001

Description	Part Number	Qty
Placard, Weight Limit	09251040-008	1
Placard, Lock Override (Pilot)	09251040-009	1

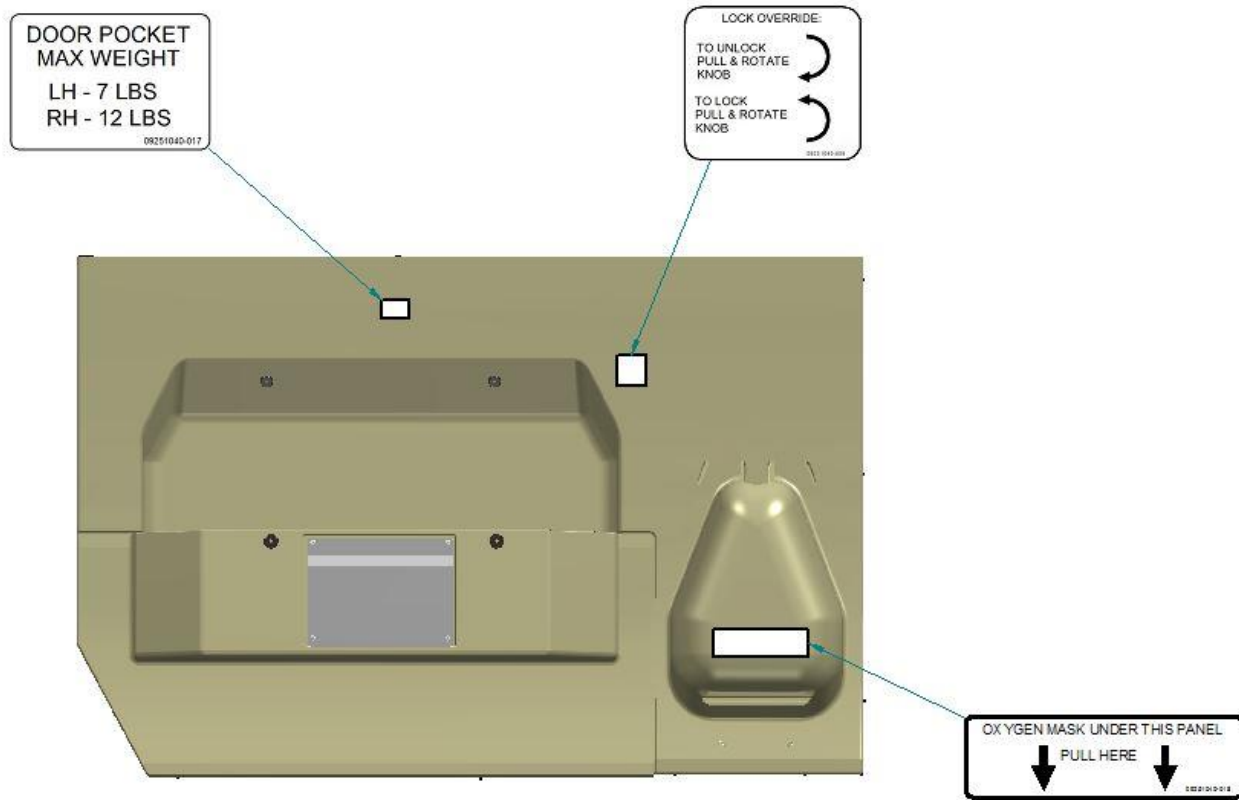
2. Direct OEM Replacement Co-Pilot Lower Interior Door Panel Assembly.



**Figure 11.2**  
 Co-Pilot Lower Door Panel Assembly – P/N 09251030-002

Description	Part Number	Qty
Placard, Weight Limit	09251040-008	1
Placard, Lock Operation (Co-Pilot)	09251040-012	1

3. Pilot Replacement Panel with EROS MF10 Smoke Mask Stowage.

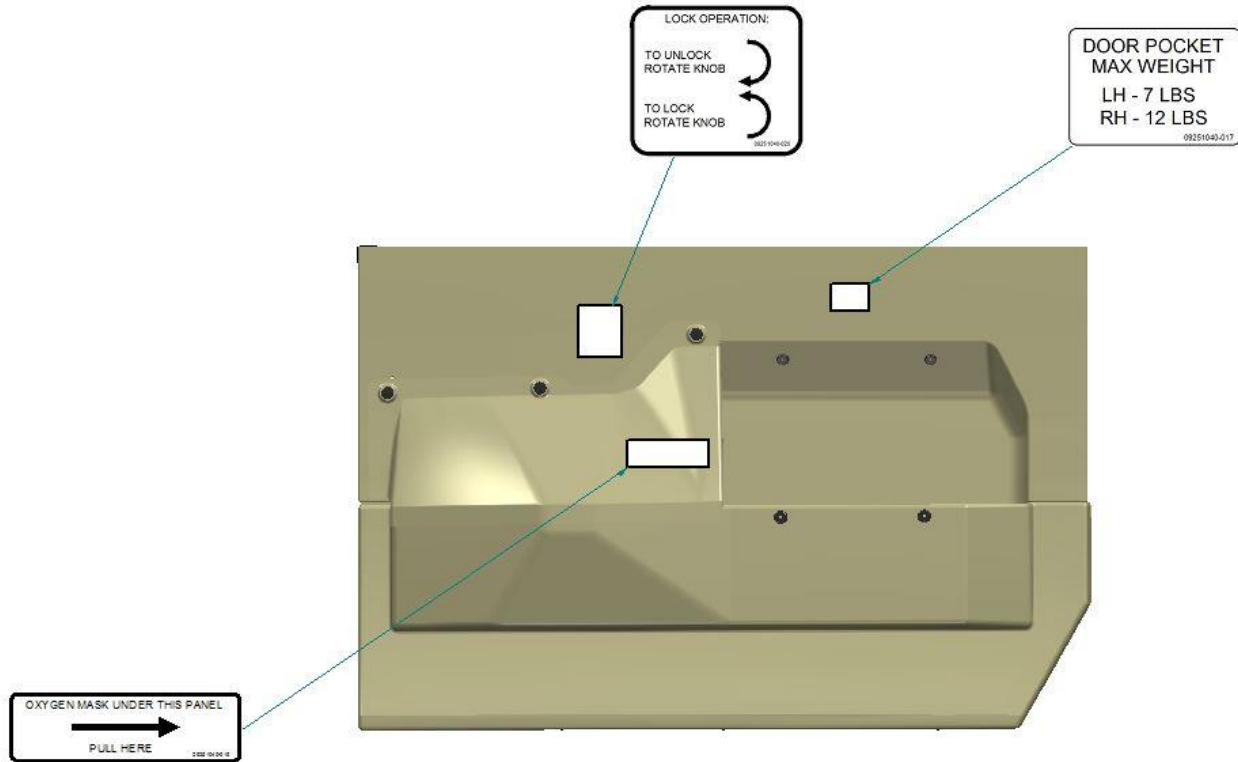


**Figure 11.3**

Pilot Lower Door Assembly with EROS MF10 Smoke Mask – P/N 09251030-015

Description	Part Number	Qty
Placard, Weight Limit	09251040-017	1
Placard, Lock Override (Pilot)	09251040-009	1
Placard, EROS MF10 Mask Access	09251040-018	1
EROS MF10 Dust Cover	09251040-015	1

4. Co-Pilot Replacement Panel with OEM Oxygen Mask Stowage.



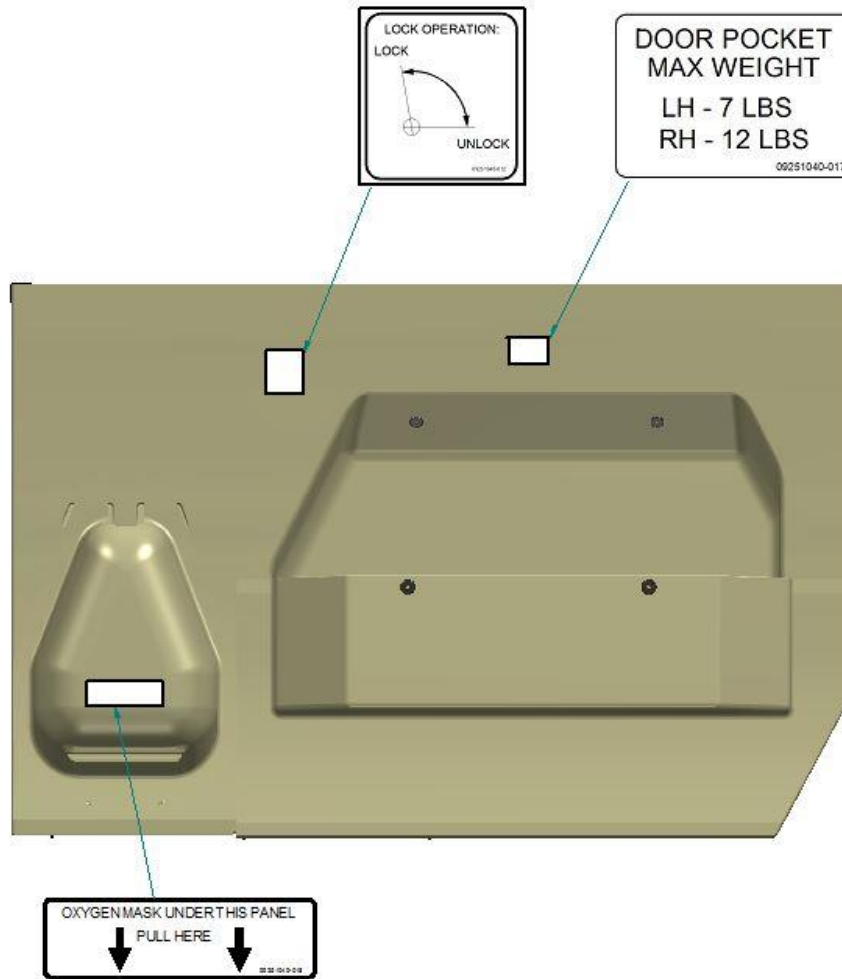
**Figure 11.4**

Co-Pilot Lower Door Assembly with OEM Oxygen Mask – P/N 09251030-018

Description	Part Number	Qty
Placard, Weight Limit	09251040-017	1
Placard, Lock Operation (Co-Pilot)	09251040-020	1
Placard, Co-Pilot (RH) Mask Access	09251040-019	1
Co-Pilot Dust Cover Assembly	09251040-015	1



5. Co-Pilot Replacement Panel with EROS MF10 Smoke Mask Stowage.



**Figure 11.5**

Co-Pilot Lower Door Assembly with EROS MF10 Smoke Mask – P/N 09251030-019

Description	Part Number	Qty
Placard, Weight Limit	09251040-017	1
Placard, Lock Operation (Co-Pilot)	09251040-012	1
Placard, EROS MF10 Mask Access	09251040-018	1
EROS MF10 Dust Cover	09251040-015	1

## **CHAPTER 12 – SERVICING**

### **12.0 Servicing**

No servicing required other than that described as part of the required inspection in Chapter 5

### **12.1 Equipment Required for Servicing**

No special equipment is required for servicing.

### **12.2 Consumable Materials**

No special consumable materials are required for servicing.

### **12.3 Cleaning**

Thoroughly clean the surface area with mild soap and hot water then dry area thoroughly.

## **CHAPTER 25 – EQUIPMENT & FURNISHING**

### **25.0 Interface Information**

The Pilot and Co-Pilot Lower Door Panels interface with the aircraft door structure. There are a total of 12 AN527D4-R8 screws per door panel installed on the right, left, and bottom edges of the door panels.

### **25.1 Repair Information**

**NOTE:**

**Contact ASIC for failures not listed in the following sections and any repair required to the door panel assemblies. See Chapter 6 for component removal.**

### **25.2 Physical Damage**

No cracks or holes are permitted within a 3-inch radius of any fasteners or within 3-inches of the pocket seam.

### **25.3 Stripped Fasteners**

Replace stripped fasteners with AN527D6-R8.

## CHAPTER 51 – STANDARD PRACTICES

### 51.0 Torque Limits

The below table gives torque limits for steel fasteners referred to in this report. All torque values are in in-lbs.

Thread Size	Tension		Shear	
	Min	Max	Min	Max
8-32	12	15	7	9
10-32	20	25	12	15
1/4-28	50	70	30	40
5/16-24	100	140	60	85
3/8-24	160	190	95	110

### 51.1 Component Removal

All fasteners, components, or equipment must be stored in a secure location and be labeled by part number, aircraft number, and any handling precautions, i.e. static sensitive. Fasteners should be bagged and then secured to the location or equipment they were removed from.

### 51.2 Storage of Removed Components

All components, equipment, or fasteners that are removed must be stored in a clean, dry, and secure location. Items must be labeled by part number, aircraft number, and any handling precautions, i.e. static sensitive. Fasteners should be bagged and then secured to the location or equipment they were removed from.