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Title	STC SA612NE: INSTALLATION OF AIRSTAIR DOOR
Revision	В
Date	8 December 2020

The operator of any of these components is required by the FAA to file this document in their Aircraft Maintenance and Component Overhaul Manuals as well as in their Aircraft Maintenance and Inspection Program.



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Record of Revisions

Rev	Rev Date	Description of Change	Prepared By
-	10 Dec 2019	Initial Release	R. Rillstone
Α	7 Jan 2020	Removal of -400 documentation reference.	R. Rillstone
В	8 Dec 2020	Updated to include new hinge half, updated parts list, updated installation steps, and additional figures.	D. McClane



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1.0 Introduction

Purpose

The following data is prepared, issued and revised by PMA Design & Manufacturing for the exclusive use of its customers and is intended for use in provisioning, requisitioning, and issuing replaceable door parts and units and in identifying parts. The contents are proprietary to PDM and its customers and are subject to change. The use of any part of this document by any other person or persons or for other purpose without the prior written consent of PDM is expressly prohibited.

Besides the manufacturing method of sub-components, this door only differs from previous configurations: C6FS3626-1/-3-/-5 and B60902 by omitting the extension step. Therefore, the Instructions for Continued Airworthiness (ICA) have not changed except for omitting this check during inspection intervals and the operator is still directed to the OEM ICA for maintenance instructions. Those Instructions for Continued Airworthiness which are not explicitly defined herein, and those applicable manuals will be cross referenced throughout the following sections as necessary.

This ICA is a living document and will be amended and updated as necessary. It is written as completely as possible and will be distributed to the operators as part of the customer data package (i.e., it will be included with each door delivered). Revisions and further distribution of changes will be served to those known operators upon completion. In cases product ownership transfers, it is required that you, the operator, request the latest revision of the manual before performing any overhaul or maintenance operations.



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System Description

The Airstair Door Assembly is a one-piece aluminum step-shell that provides an easier means of entering and exiting the aircraft for passengers and crew members. It can be incorporated into legacy DHC-6 Twin Otters (i.e., the -100, -200, and -300 model series). Both -100 and -200 models must have either SOO 6025 or MOD 6/1225 incorporated prior to installation of the Airstair Door. The -300 models incorporated the necessary structure from the factory to install Airstair Doors.

The PDM Airstair Door assembly installation is identical to previous Airstair Doors. Whether the door is open or closed the first attachment is to the fuselage and pivots about a hinge pin, which is captured between the two hinge halves by two spring pins. When open, the door weight and load is suspended by two upper cable assemblies. The aft assembly is adjustable to balance the load between both cables equally. When closed, the cable assemblies no longer support the door and its loadings. Instead, there are two latch pins which lock the door closed and are actuated by either the inner or outer handle. Additionally, the door Contact Assembly makes contact with the fuselage Contact Assembly giving the pilots indication that the door is shut and locked.



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2.0 Maintenance Instructions

Tools Required

No novel or unique tools are required for the maintenance of the PDM Airstair Door Assembly. Tools typically found in a certified Aviation & Powerplant Technician's toolbox are all that are necessary.

Servicing and Inspection Requirements

Inspection requirements for the operator can be found within the OEM documentation PSM 1-6-7 Inspection Requirements Manual, Chapter 52 — Doors. Here the operator can find the scheduling interval information that provides the recommended periods at which the door should be cleaned, inspected, adjusted, tested, and lubricated. Make note that if the given Airstair Door Assembly installed does not incorporate the extension step, the operator should disregard the inspection requirement that explicitly specifies checking the condition and security of the extension step. This is the case for only this STC and applies to the B60902 and B70902 Airstair Door Assemblies. The PDM Airstair Door is not considered to have any Airworthiness Limitations with regards to flight time or cycles. The PDM Airstair Door is only replaced or repaired upon condition.



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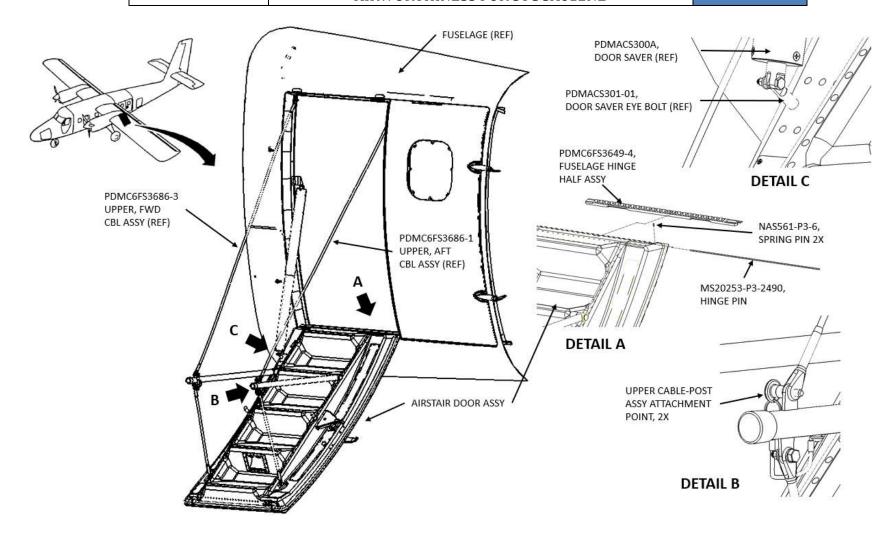


Figure 1.0 - Airstair Door Installation



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Door Installation

- 1. Determine aircraft configuration has SOO 6025 or MOD 6/1225 incorporated.
- 2. Remove existing fuselage hinge half assembly and disconnect brackets (C6FS4795-3 and C6FS4795-1).
- 3. Attach C6FS4795-3 and C6FS4795-1 brackets to fuselage hinge half PDMC6FS3649-4, then install assembly to fuselage.
- 4. Position, support, and align door hinge half with mating fuselage hinge half.
- 5. Insert Hinge Pin through both door and fuselage hinge halves.
- 6. Insert Spring Pins into door hinge half outer knuckles.
- 7. Connect Upper, Forward Cable Assembly and forward Post Assembly fitting with Quick-Release Pin.
- 8. Repeat step 5 for Upper, Aft Cable Assembly.
- 9. Adjust Upper, Aft Cable Assembly to balance tension equally between both Upper Cable Assemblies.
- 10. If the aircraft configuration has MOD 6/1606 (previously SOO 6114) incorporated, remove cover from Step Shell and install Door Saver Eye Bolt.
- 11. Attach Door Saver restraint device to Door Saver Eye Bolt.
- 12. Close and latch door.

Door Removal

1. Door removal is reverse of installation steps.



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3.0 Additional Instructions

Electrical Systems

The PDM Airstair Door electrical system comprises of a Contact Assembly, a Wire Assembly, and a Microswitch Assembly. The electrical system is identical to previous Airstair Door configurations and is unchanged. This system is to aid the pilots in detecting doors that are not completely closed and locked. The operator is directed to the OEM documentation PSM 1-6-2W1, PSM 1-6-2W2, or PSM 1-63-2W *Wiring Diagrams Manual:* Chapter 52 — Doors for the corresponding model -100, -200, or -300 series, respectively. The aforementioned documentation will direct the operator on the polarity of the electrical circuit should be based upon the given aircraft configuration (i.e., what mods are or are not incorporated).

Primary and Secondary Structures

The Airstair Door installation is neither a primary nor a secondary structure for the DHC-6 aircraft, (i.e., it does not provide any structural support during operation of the aircraft). There are currently no repairs for the structure of the door itself. If the door is damaged during service, it is required that any repairs to be completed are first acceptable by certification and/ or approved data by the local Civil Aviation Authority. Otherwise replace the door.

Weight & Balance

The procedure to weigh and balance the aircraft is unchanged. The operator is directed to the OEM documentation PSM 1-6-8 or PSM 1-63-8(MSN) *Weight and Balance Handbook* for the corresponding model -100/-200 or -300, respectively.

The weight of the STC door assemblies differ. For B60902 and B70902 doors, respectively they are approximately 50-lb (23-kg) and 45-lb. (20-kg). Neither of these weights include the extension step & installation, which if configured with the B60902 door would add an additional 9.4-lb (4.3-kg).



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4.0 Airworthiness Limitations

The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§ 43.16 and 91.403 of Title 14 of the Code of Federal Regulations unless an alternative program has been FAA approved.

There are no new (or additional) airworthiness limitations associated with this equipment and/or installation. PDM Airstair Doors, B60902 and B70902 are only repaired or replaced based upon condition. For further questions, the operator is directed to the OEM documentation PSM 1-6-11 Airframe Airworthiness Limitations Manual and PSM 1-6-7 Inspections Requirements Manual.



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5.0 Illustrated Part List

The following document provides an Illustrated Parts List for the PMA Design and Manufacturing Airstair Door Assemblies. It is intended to aid the operator in identifying components that can be removed and replaced. It is divided based upon the two different configurations, B60902 and B70902.



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B60902 Airstair Door Assembly

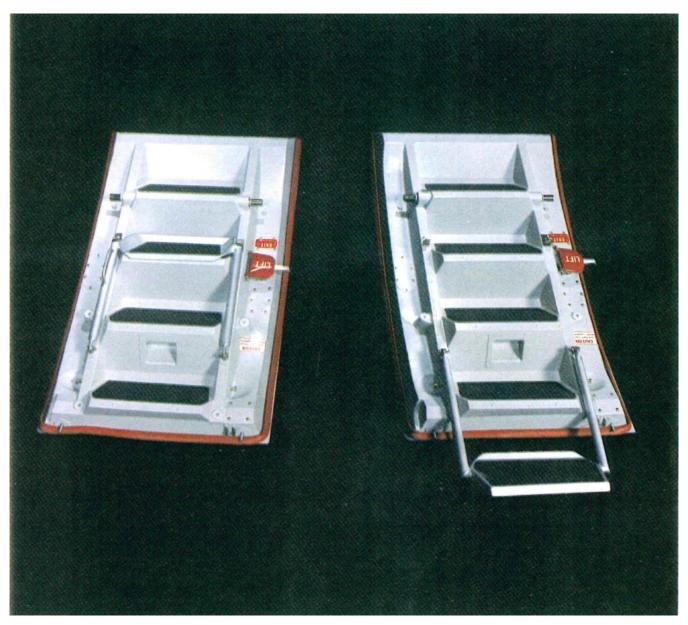
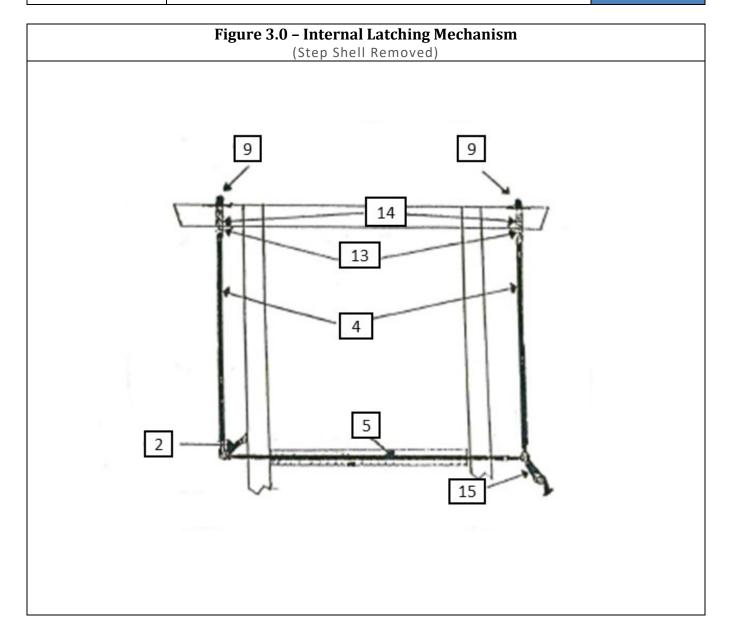


Figure 2.0 - B60902 Airstair Door Assembly



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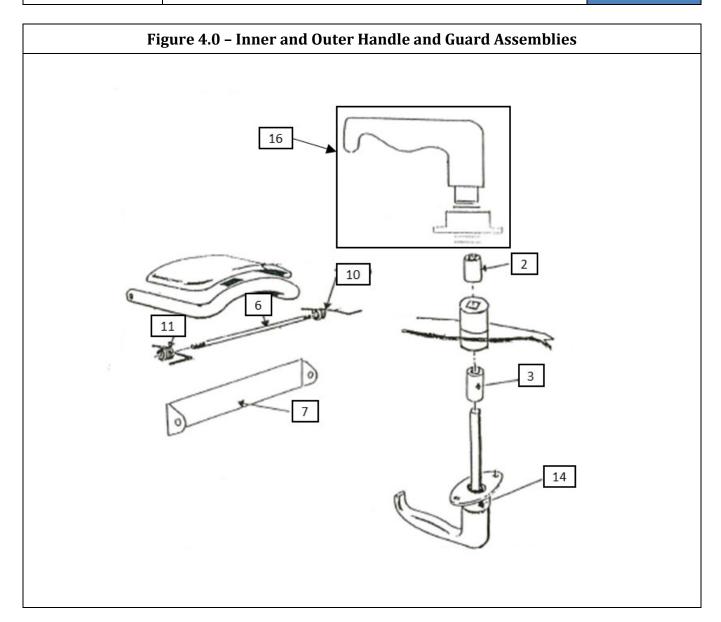
FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
3.0	-1	B60902	AIRSTAIR DOOR ASSEMBLY	REF
	2	B90645-1	. LEVER ASSEMBLY (FWD) ATTACHING PARTS	1
	-3	AN174-10A	. BOLT —X—	1
	4	B48613-1	. PUSH ROD ASSEMBLY (PIN)	2
	5	B48614-1	. PUSH ROD ASSEMBLY (CROSS) ATTACHING PARTS	1
	-6	MS20392-2C15	. FLAT HEAD PIN	2
	-7	AN960PD10	. WASHER	2
	-8	MS24665-153	. COTTER PIN —X—	2
	9	B48615-1	. LATCH PIN ATTACHING PARTS	2
	-10	MS20392-2C13	. FLAT HEAD PIN	2
	-11	AN960-10L	. WASHER	2
	-12	MS24665-134	. COTTER PIN	2
	13	MS16562-35	. SPRING PIN —X—	2
	14	B60927-1	. SPRING	2
	15	B48612-1	. LEVER ASSEMBLY (AFT)	1



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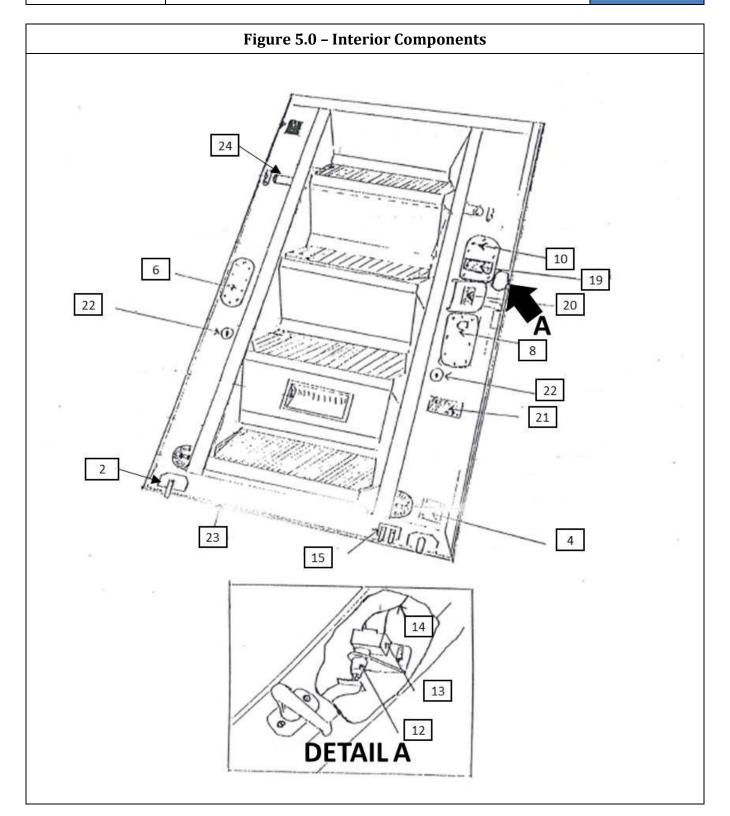
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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
4.0	-1	B60902	AIRSTAIR DOOR ASSEMBLY	REF
	2	B48617-1	. SPACER HANDLE (INNER – SHORT)	1
	3	B48617-2	. SPACER HANDLE (OUTER – LONG)	1
	-4	B60932-1	. HANDLE GUARD ASSEMBLY	1
	-5	B60932-3	FRAME	1
	6	B60932-5	PIN ROD	1
	7	B60932-7	BRACKET	1
	-8	MS24665-88	COTTER PIN (ALTN PART TO AN380-2-3)	2
	-8A	AN380-2-3	COTTER PIN (ALTN PART TO MS24665-88)	2
	9	B60932-11	SPRING	1
	10	B60932-12	SPRING	1
	-11	B60932-15	SHIELD	1
			ATTACHING PARTS	
	-12	MS51861-23C	SCREW	4
			—X—	
	13	DSC177-2-116	. OUTER HANDLE ASSEMBLY	1
			ATTACHING PARTS	
	-14	AN505-8R10	. SCREW	2
			—X—	
	15	B50500	. INNER HANDLE ASSEMBLY	1
			ATTACHING PARTS	
	-16	MS24694-S7	. SCREW	2
			—X—	



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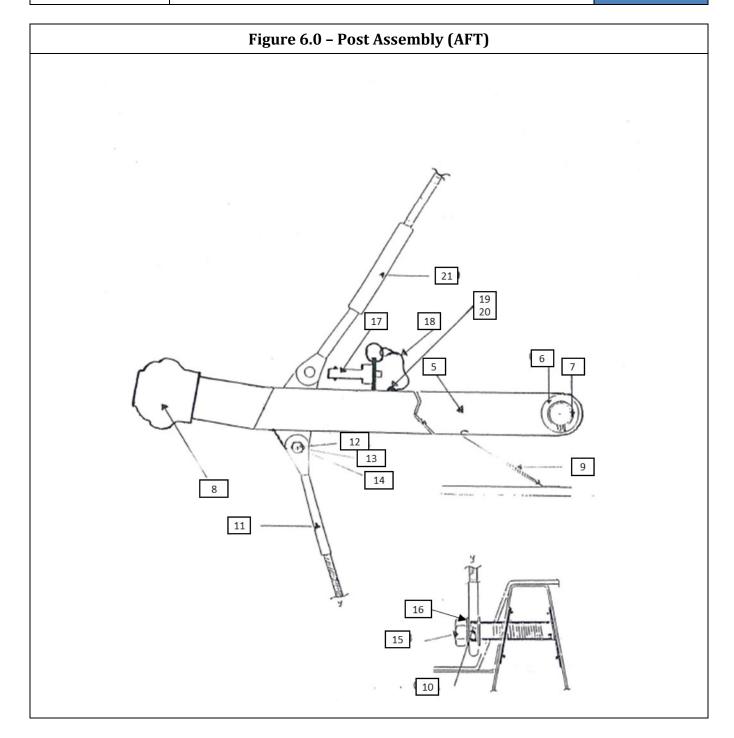
FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
5.0	-1	B60902	AIRSTAIR DOOR ASSEMBLY	REF
	2	B48611-1	. GUIDE BLOCK ASSEMBLY	2
			ATTACHING PARTS	
	-3	AN509-10R10	. SCREW	2
			—X—	
	4	B60924-1	. INSPECTION PANEL LOCK PIN AFT	1
			ATTACHING PARTS	
	-5	AN509-8R9	. SCREW	4
			—X—	
	6	B60924-3	. INSPECTION PANEL DOOR LOCK FWD	1
			ATTACHING PARTS	
	-7	AN509-8R9	. SCREW	6
			—X—	
	8	B60924-5	. INSPECTION PANEL DOOR LOCK INDICATOR	1
		437E00.0D0	ATTACHING PARTS	
	-9	AN509-8R9	. SCREW	5
	10	D (0 0 0 4 5	—X—	
	10	B60924-7	. INSPECTION PANEL DOOR LOCK	1
	-11	ANTOO ODO	ATTACHING PARTS	5
	-11	AN509-8R9	. SCREW —X—	5
	12	MD3211-Q	. ACTUATOR, MICROSWITCH	1
	13	BZ-2RT04	. MICROSWITCH	1
	14	B60933-1	. WIRE ASSEMBLY	1
	15	B60939-1	. CONTACT ASSEMBLY	1 1
	13	000737-1	ATTACHING PARTS	1
	-16	AN509-8R10	. SCREW	1
	-17	AN525-832R9	. SCREW	1
	-18	AN960PD8L	. WASHER	1
		1117001 DOL	-X-	
	19	C6FS3636-27	. LABEL, EXIT	1
	20	C6G1080-27	. LABEL, LIFT	1
	21	C6FF1770-27	. LABEL, AIRSTAIR DOOR	1
	22	B65601-5	. REST (DOOR POST)	1
	23	PDMCVR-109	. SEAL, SILICONGE SPONGE	1
	24	B48605-1	. TUBÉ ASSEMBLY	1
			—X—	



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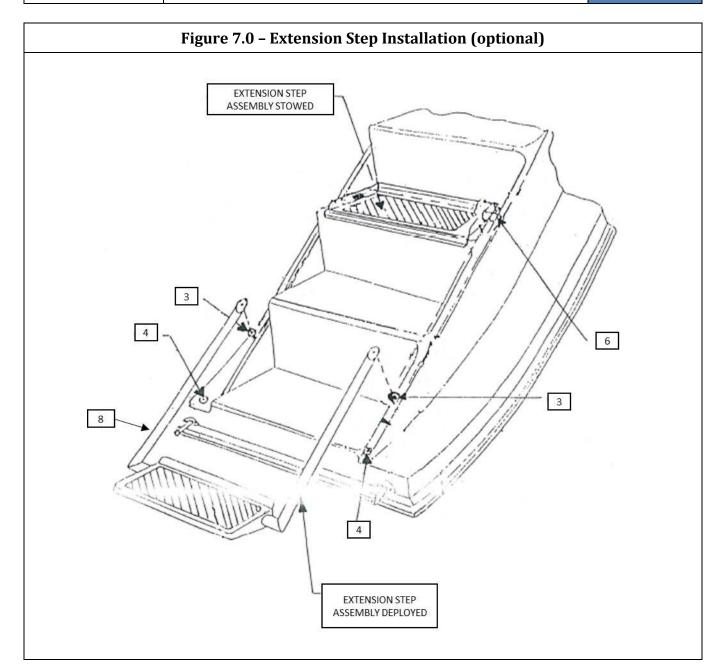
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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
6.0	-1	B60902	AIRSTAIR DOOR ASSEMBLY	REF
	-2	B63002-1	. POST (FWD)	1
			ATTACHING PARTS	
	-3	AN960-1416L	. WASHER	1
	-4	MS16624-1087	. RETAINING RING	1
			—X—	
	5	B63002-2	. POST (AFT)	1
			ATTACHING PARTS	
	6	AN960-1416L	. WASHER	1
	7	MS16624-1087	. RETAINING RING	1
			X	
	8	SB22	. CRUTCH TIP	2
	9	C4B10036-3	. SPRING-POST RETURN	2
	10	B63006-1	. BUSHING	2
	11	C6FS3686-5	. LOWER CABLE ASSEMBLY (ALTN PART TO PDMC6FS3686-5)	2
	-11A	PDMC6FS3686-5	. LOWER CABLE ASSEMBLY (ALTN PART TO C6FS3686-5) ATTACHING PARTS	2
	12	AN4-6A	. BOLT	1
	13	AN960-416L	. WASHER	1
	14	MS20364-428A	. NUT	1
	15	AN5A-10	BOLT	1
	16	AN960-516	. WASHER	2
			—X—	
	17	NAS1334AS3505D	. PIN-QUICK RELEASE	2
	18	B73004-1	. CABLE ASSEMBLY	2
			ATTACHING PARTS	
	19	AN530-10R6	. SCREW	1
	20	NAS1149D0363J	. WASHER	1
			-X-	
	21	C6FS3686-3	. UPPER CABLE ASSEMBLY, FWD (ALTN PART TO PDMC6FS3686-3)	1
	-21A	PDMC6FS3686-3	. UPPER CABLE ASSEMBLY, FWD (ALTN PART TO C6FS3686-3)	1
			X	



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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
7.0	-1	B60902	AIRSTAIR DOOR ASSEMBLY	REF
	-2	B65601-1	. EXTENSION STEP INSTALLATION	1
	3	B60942-1	ANCHOR PIN	2
	4	B65601-5	REST	2
			ATTACHING PARTS	
	-5	AN509-10R10	SCREW	2
			—X—	
	6	B65601-7	CLIP	2
			ATTACHING PARTS	
	-7	AN525-10R8	SCREW	4
			—X—	
	8	B65602-1	EXTENSION STEP ASSEMBLY	1
			ATTACHING PARTS	
	-9	AN5-10A	BOLT	2
	-10	AN960-516	WASHER	2
	-11	MS20364-524	NUT	2
			—X—	



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B70902 Airstair Door Assembly

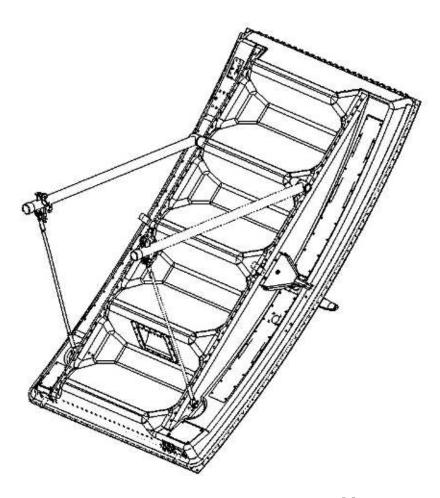
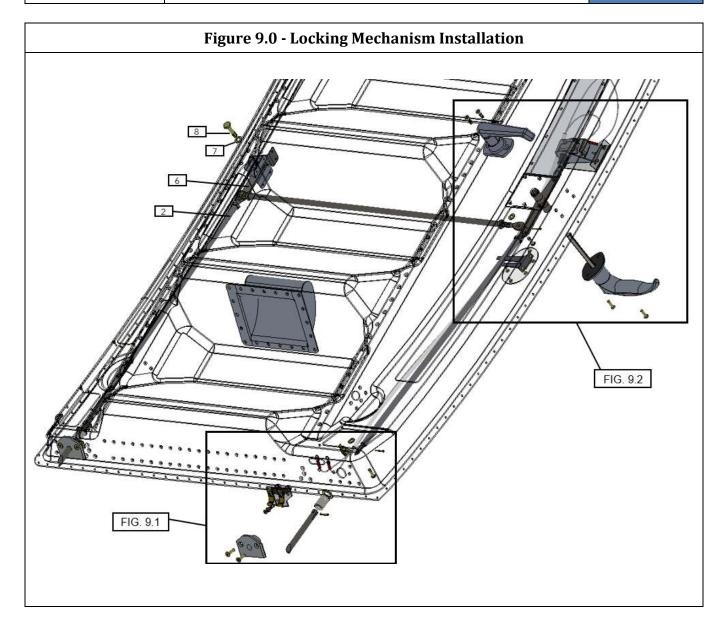


Figure 8.0 - B70902 Airstair Door Assembly



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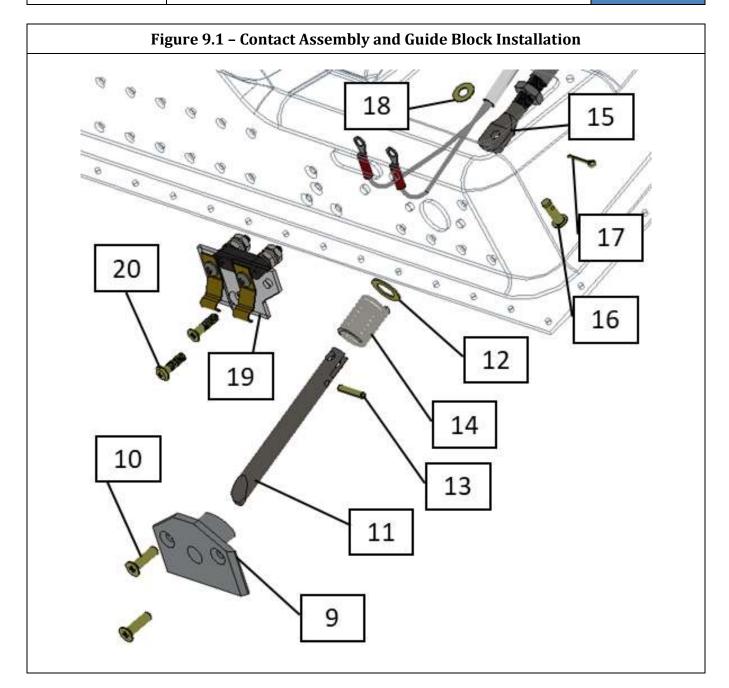
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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
9.0	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	2	B78613-1	. PUSH ROD ASSEMBLY	2
			ATTACHING PARTS	
	-3	MS20392-2C15	. CLEVIS PIN	1
	-4	MS24665-132	. COTTER PIN	1
	-5	NAS1149F0316P	. WASHER	1
			—X—	
	6	B70945-1	. FWD ARM LEVER	1
			ATTACHING PARTS	
	7	NAS1149F0432P	. WASHER	1
	8	NAS6204-12	. HEX HEAD BOLT	1
			—X—	

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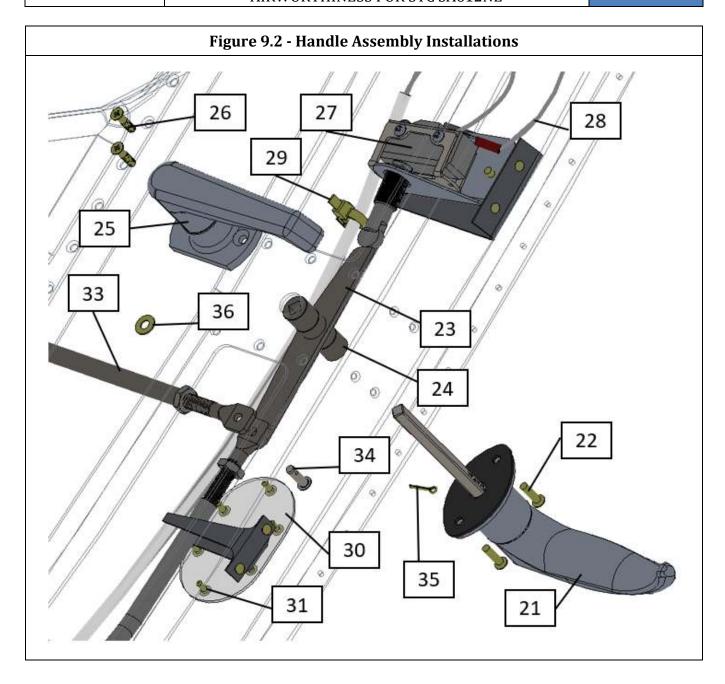
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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
9.1	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	9	B78611-1	. GUIDE BLOCK ASSEMBLY	2
			NOTE: Ream B78611-5 bushing to fit B78615-1 latch pin through B78611-1 guide block assembly.	
			ATTACHING PARTS	
	10	MS24694-S52	. SCREW	2
			—X—	
	11	B78615-1	. LATCH PIN	2
	12	NAS1149F0632P	. WASHER	2
	13	MS16562-35	. SPRING PIN	2
	14	B70927-1	. SPRING	2
	15	B78613-1	. PUSH ROD ASSEMBLY	1
			ATTACHING PARTS	
	16	MS20392-2C15	. CLEVIS PIN	1
	17	MS24665-132	. COTTER PIN	1
	18	NAS1149F0316P	. WASHER	1
			—X—	
	19	B70939-1	. CONTACT ASSEMBLY	1
			ATTACHING PARTS	
	20	AN525-832R9	. SCREW	1
	-21	MS24694-S7	. SCREW	1
			—X—	

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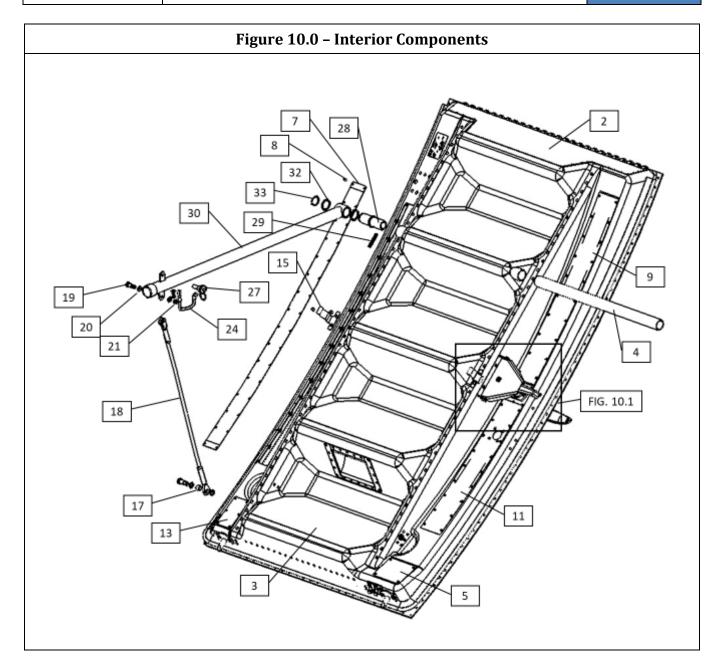
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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
9.2	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	21	PDMVSC25-2-116NL	. OUTER HANDLE ASSEMBLY	1
	-21A	PDMVSC25-2-116NLP	. OUTER HANDLE ASSEMBLY (ALTN PART TO PDMVSC25-2-116NL)	1
	-21B	AR83-2-116	. OUTER HANDLE ASSEMBLY (ALTN PART TO PDMVSC25-2-116NL)	1
	-21C	DSC177-2-116	. OUTER HANDLE ASSEMBLY (ALTN PART TO PDMVSC25-2-116NL)	1
	-21D	VSD25-2-116	. OUTER HANDLE ASSEMBLY (ALTN PART TO PDMVSC25-2-116NL)	1
			ATTACHING PARTS	
	22	MS24693-S51	. SCREW	2
			—X—	
	23	B78612-1	. LEVER	1
	24	B78617-1	. SPACER	2
	25	B70500	. INNER HANDLE ASSEMBLY	1
	26	MS24694-S7	ATTACHING PARTS . SCREW	2
	27	B70935-1	—X— . MICROSWITCH ASSEMBLY	1
	28	B70933-1 B70933-1	. WIRE ASSEMBLY	1 1
	20	D/0933-1	ATTACHING PARTS	1
	-29	MS3367-1-9	. ELECTRICAL TIEDOWN STRAP —X—	3
	30	B70929-1	. SIGHTGLASS, SKIN ATTACHING PARTS	1
	31	MS24693-S4	MACHINE SCREW	6
	-32	CB6014CR04-1P	NUTPLATE	6
			—X—	
	33	B78614-1	. PUSH ROD ASSEMBLY ATTACHING PARTS	1
	34	MS20392-2C15	. CLEVIS PIN	2
	35	MS24665-132	. COTTER PIN	2
	36	NAS1149F0316P	. WASHER	2
			-X-	



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FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
10.0	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	2	B70953-1	. TOP STEP TREAD TAPE	1
	3	B70953-3	. STEP TREAD TAPE	4
	4	B78605-3	. TUBE	1
	5	B70924-1	. INSPECTION PANEL	1
			ATTACHING PARTS	
	-6	MS24693-S4	. SCREW	4
			—X—	
	7	B70924-3	. INSPECTION PANEL	1
			ATTACHING PARTS	
	8	MS24693-S4	. MACHINE SCREW	32
			X	
	9	B70924-5	. INSPECTION PANEL	1
			ATTACHING PARTS	
	-10	MS24693-S4	. SCREW	20
			X	
	11	B70924-7	. INSPECTION PANEL	1
		<i>D</i> , 0, 2 1 ,	ATTACHING PARTS	_
	-12	MS24693-S4	. SCREW	18
	-12	M324073-34	_X_	10
	13	B70924-9	. INSPECTION PANEL	1
	13	D/0924-9		1
	1.4	MC24602 C4	ATTACHING PARTS	
	-14	MS24693-S4	. SCREW	6
			—X—	
	15	B73003-1	. CLIP	2
			ATTACHING PARTS	
	-16	CR3242-5-03	. RIVET	2
			—X—	
	17	B73005-1	. BUSHING	2
	18	PDMC6FS3686-5	. LOWER CABLE ASSEMBLY	2
			ATTACHING PARTS	
	19	AN4-7A	. BOLT	1
	20	NAS1149F0463P	. WASHER	2
	21	MS21042L4	. NUT	1
	-22	AN5-10A	BOLT	1
	-23	NAS1149F0563P	. WASHER	2
	23	14101117103031	-X-	



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PRINCIPAL INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR STC SA612NE

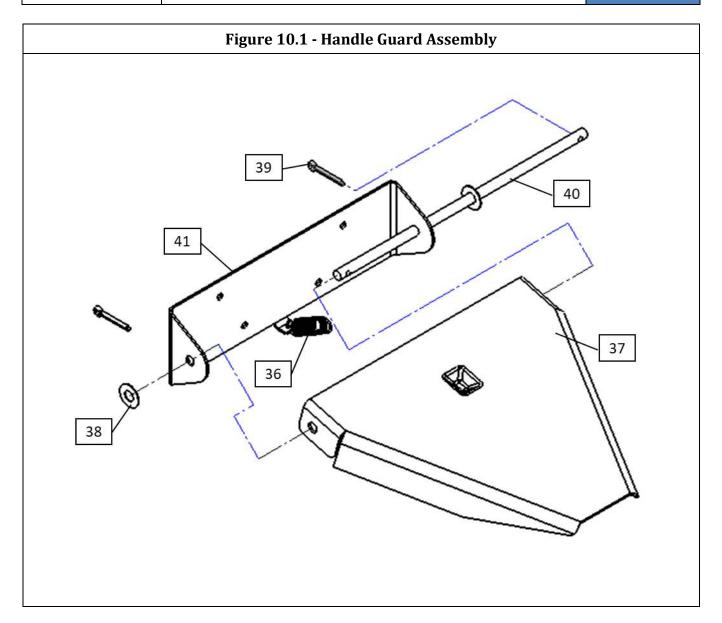
FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
	24	B73004-1	. CABLE ASSEMBLY	2
			ATTACHING PARTS	
	-25	AN530-10R6	. SCREW	1
	-26	NAS1149D0363J	. WASHER	1
			—X—	
	27	NAS1334A3S05D	. QUICK RELEASE PIN	2
			—X—	
	28	B78605-11	. PLUG	2
			ATTACHING PARTS	
	29	B78609-1	. STEEL COILED SPRING PIN	2
			—X—	
	30	B73002-1	. POST ASSEMBLY	2
	-31	B73002-13	END CAP	1
			ATTACHING PARTS	
	32	B78605-13	. WASHER	2
	33	MS16624-4087	. RING, RETAINING, EXTERNAL	1
			—X—	
	-34	PDM-01AD	. LABEL, CAUTION	1
	-34A	C6FF1770-27	. LABEL, AIRSTAIR DOOR (ALTN PART TO PDM-01AD)	1
	-35	PDM-02AD	. LABEL, EXIT	1
	-35A	C6FF1770-27	. LABEL, AIRSTAIR DOOR (ALTN PART TO PDM-02AD)	1



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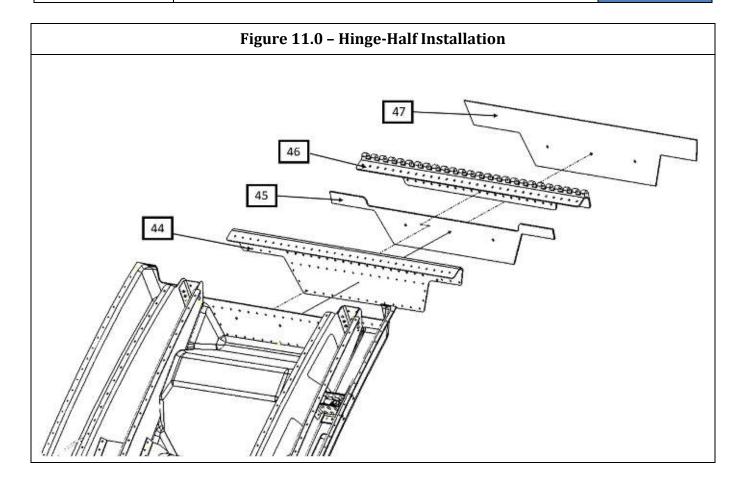
PRINCIPAL INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR STC SA612NE

FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
10.1	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	-35	B70932-1	. GUARD ASSEMBLY	1
	36	B70932-19	SPRING	1
	37	B70932-17	SHIELD	1
	38	NAS1149CN816R	WASHER	2
	39	MS24665-208	SPLIT COTTER PIN	2
	40	B70932-5	PIN ROD	1
	41	B70932-7	BRACKET	1
			ATTACHING PARTS	
	-42	CR3213-4-3	RIVET	4
			—X—	
	-43	PDM-04AD	. LABEL, LIFT	1
	-43A	C6G1080-27	. LABEL, LIFT (ALTN PART TO PDM-04AD)	1



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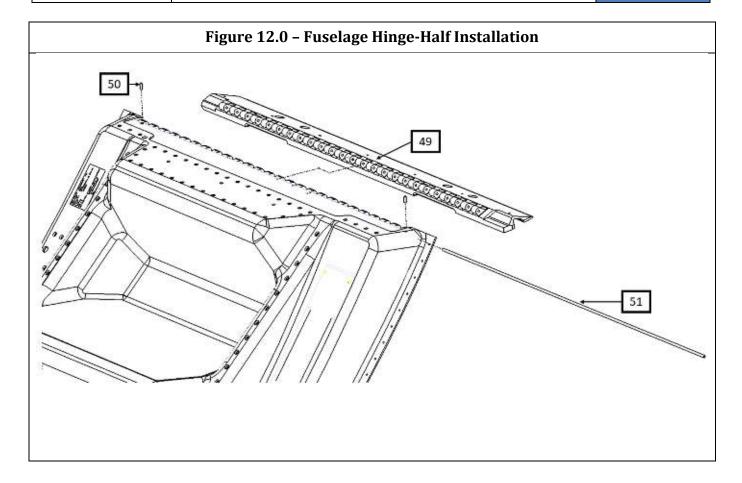
PRINCIPAL INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR STC SA612NE

FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
11.0	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	44	B70923-1	. HINGE DOUBLER	1
	45	B70925-1	. PLATE, HINGE	1
	46	B70911-1	. HINGE	1
	47	1924T43	. SHIM, HINGE	1
			ATTACHING PARTS	
	-48	MS20426AD5-12	RIVET	74



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PRINCIPAL INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR STC SA612NE

FIG.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY PER ASSY
12.0	-1	B70902	AIRSTAIR DOOR ASSEMBLY	REF
	49	PDMC6FS3649-4	. HINGE HALF ASSEMBLY	1
			ATTACHING PARTS	
	50	NAS561-P3-6	SPRING PIN	2
	51	MS20253-P3-2490	PIN, HINGE	1
			X	