Ameristar Air Cargo, Inc. dba Ameristar Charters
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NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.

ATTACHMENT 3

Zodiac Aerospace CMM
3 - Pages

1. ***Add the following revisions to CMM Assembly section 3 paragraph D:***

C. Hydrostatic Proof Pressure Test

(1). See Testing and Fault Isolation section.

D. Valve Regulator Final Assembly

(1). Using socket (Table 701), install rupture disc (300) with O-ring (240) and tighten (Table 801).

(2). Using socket (Table 701), install the fusible plug (280, 280A) with O-ring (290) and tighten (Table 801).

(3). Install the filler valve (205) with O-ring (240) and tighten (Table 801).

(4). Install pressure gage (30, IPL Figures 1, 2) into the gage fitting per Paragraph 6.E.

(5). Ensure valve is in the open position. Install ball end of valve release cable (50B, 50D, 50E, 50F, 50I, 50J, IPL Figure 1; 50A, 50B, 50C, IPL Figure 2) into pulley and cable adapter (260) until it is pulled into pulley housing.

(6). Depress the pawl (250) with a 1/8 In. diameter punch through hole in wall of pulley housing at decal (270). Insert a 3/16 In. hex key (Allen wrench) into pulley socket and rotate pulley until the pulley stop pin is aligned with the black triangular index mark (closed position) on the cover plate. Install lock pin assembly (140, IPL Figure 1; 120, IPL Figure 2) into valve.

NOTE: ENSURE LOCK PIN ASSEMBLY IS FULLY ENGAGED INTO THE HOUSING PULLEY.

(7). Pull on the valve release cable. If it moves, the lock pin is not fully engaged.

NOTE: Installation of the inflation cable guide and nut are accomplished during applicable folding procedure of the evacuation system.

(8). Coil and tape excess cable to the reservoir.

E. Valve/Regulator Leakage Test

(1). See Testing and Fault Isolation section.

ADD: fully

REVISE

FROM: pulled

TO: fully inserted

ADD: Verify that the valve release cable is pulled into the pulley housing as the pulley is rotated to the valve closed position.

REVISE TO: Gently pull or tug on the valve release cable. Looking closely around the gaps in the valve cover assembly on the inflation valve, verify that there is slight movement of the pulley and the lock pin due to the movement of the valve release cable. The valve release cable should not pull free of the inflation valve assembly. If the valve release cable can withdraw from the valve assembly, either the lock pin is not fully engaged or the inflation cable was not fully inserted into the pulley during the arming procedure. Repeat steps (5) and (6) to resolve unacceptable cable movement.

2. *Add the following revisions to CMM Assembly section 3A paragraph C:*

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C. Valve/Regulator Final Assembly

(1). Using socket (Table 701), install the rupture disc (300, IPL Figure 4; 280, IPL Figure 5) in the valve body and tighten per Table 801.

(2). For D18306 valves only: using socket (Table 701), install the fusible plug (280A, IPL Figure 4) with O-ring (290, IPL Figure 4) and tighten per Table 801.

(3). Install the filler valve (200) with O-ring (240) and tighten per Table 801.

(4). Install pressure gage (30, IPL Figures 1, 2) into the gage fitting per Paragraph 6.E.

(5). Ensure valve is in the open position. Install ball end of valve release cable (50B, 50D, 50E, 50F, 50I, 50J, IPL Figure 1; 50A, 50B, 50C, IPL Figure 2) into pulley and cable adapter (260) until it is pulled into pulley housing.

(6). Depress the pawl (250) with a 1/8 In. diameter punch through hole in wall of pulley housing at decal (270). For valve/regulator assemblies fitted with an aluminum pulley (20A, IPL Figure 4; 20, IPL Figure 5), insert a 3/16 In. hex key into the socket at the center of the pulley. For valve/regulator assemblies fitted with a composite pulley (40B, IPL Figure 4; 20A, IPL Figure 5), insert a standard or offset slotted screwdriver into the slot at the center of the pulley. Rotate pulley until the pulley stop pin is aligned with the black triangular index mark (closed position) on the cover plate. Install lock pin assembly (140, IPL Figure 1; 120, IPL Figure 2) into valve.

NOTE: ENSURE LOCK PIN ASSEMBLY IS FULLY ENGAGED INTO THE HOUSING PULLEY

(7). Pull on the valve release cable. If it moves, the lock pin is not fully engaged.

NOTE: Installation of the inflation cable guide and nut are accomplished during applicable folding procedure of the evacuation system.

(8). Coil and tape excess cable to the reservoir.

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ADD: fully

REVISE

FROM: pulled

TO: fully inserted

ADD: Verify that the valve release cable is pulled into the pulley housing as the pulley is rotated to the valve closed position.

REVISE TO: Gently pull or tug on the valve release cable. Looking closely around the gaps in the valve cover assembly on the inflation valve, verify that there is slight movement of the pulley and the lock pin due to the movement of the valve release cable. The valve release cable should not pull free of the inflation valve assembly. If the valve release cable can withdraw from the valve assembly, either the lock pin is not fully engaged or the inflation cable was not fully inserted into the pulley during the arming procedure. Repeat steps (5) and (6) to resolve unacceptable cable movement.

3. Add the following revisions to CMM Assembly section 7 paragraph B:

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B. Arm valve/regulator (Figure 709)

(1). Rotate reservoir in chain vise until pulley housing is facing up.

(2). For valve/regulator assemblies fitted with an aluminum pulley (20, 25, IPL Figure 3; 20A, IPL Figure 4; 20, IPL Figure 5), insert a 3/16 In. hex key into the socket at the center of the pulley. For valve/regulator assemblies fitted with a composite pulley (40B, IPL Figure 4; 20A, IPL Figure 5), insert a standard or offset slotted screwdriver into the slot at the center of the pulley. Slowly rotate pulley until stop pin is at ~~opposite end of its arc of motion~~

(3). Insert ball end of valve release cable assembly (50B, 50D, 50E, 50F, 50I, 50J, IPL Figure 1; 50A, 50B, 50C, IPL Figure 2) through the cable adapter port into the recess in the pulley.

(4). Rotate the pulley until the pulley stop pin is adjacent to the black triangular index mark (valve closed) on the cover plate.

NOTE: Shoulder of lock pin should bear against face of pulley housing cover plate.

(5). Install lock pin assembly (140, IPL Figure 1; 120, IPL Figure 2) into valve. Shoulder of lock pin should bear against face of pulley housing cover plate.

WARNING: ENSURE LOCK PIN IS FULLY ENGAGED INTO THE HOUSING PULLEY TO PREVENT ACCIDENTAL DISCHARGE OF PRESSURIZED GAS.

(6) ~~Gently pull on valve release cable.~~ If it moves the stop pin is not fully engaged.

NOTE: Installation of the cable guide assembly is accomplished during folding procedure of the evacuation slide.

(7). Coil and tape excess cable to the reservoir.

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REVISE TO:

….opposite end of its arc of motion, farthest away from the black triangular index mark on the cover plate.

ADD: Verify that the valve release cable is pulled into the pulley housing as the pulley is rotated to the valve closed position.

REVISE TO: Gently pull or tug on the valve release cable. Looking closely around the gaps in the valve cover assembly on the inflation valve, verify that there is slight movement of the pulley and the lock pin due to the movement of the valve release cable. The valve release cable should not pull free of the inflation valve assembly. If the valve release cable can withdraw from the valve assembly, either the lock pin is not fully engaged or the inflation cable was not fully inserted into the pulley during the arming procedure. Repeat steps (3) thru (5) to resolve unacceptable cable movement.