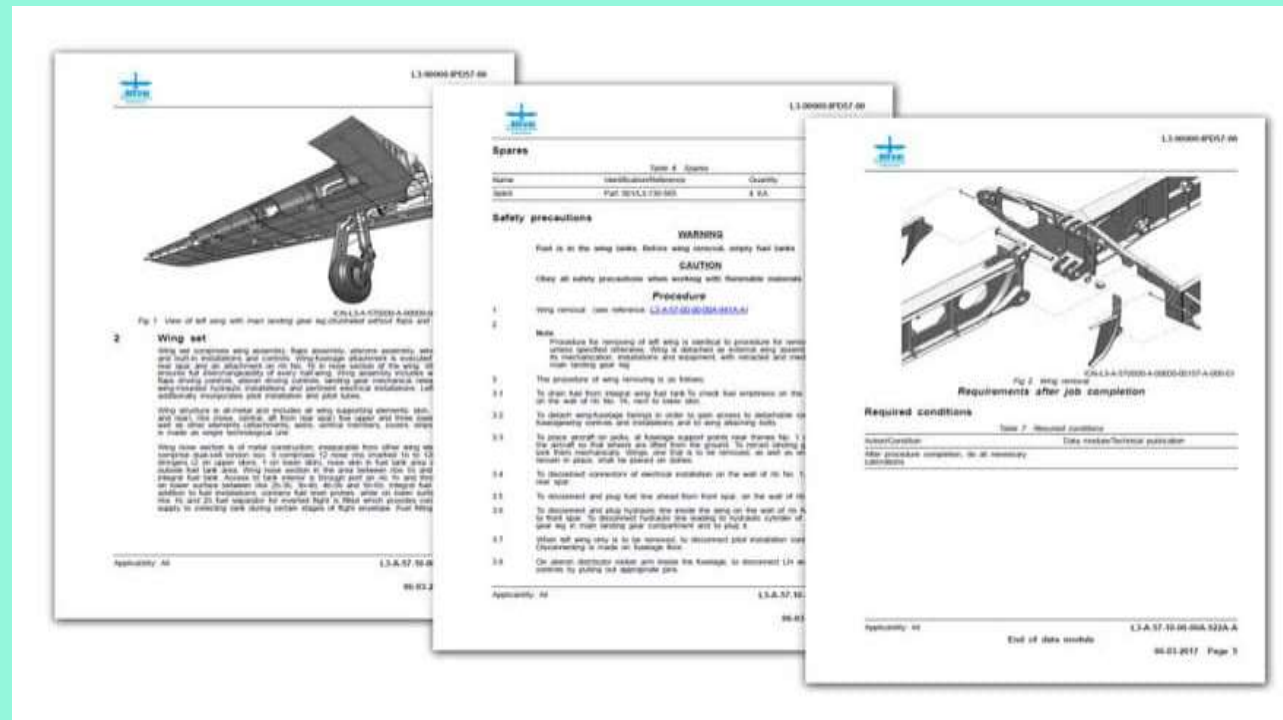


PRESENTATION ON COMPONENT MAINTENANCE MANUAL



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TECHNICAL PUBLICATION MANUAL



TECHNICAL PUBLICATION MANUAL

The paper documentation require for mordern aircraft would weight about the same as airplane itself.

COMPONENT MAINTENANCE MANUAL

- A formal document which details the way in which off-aircraft maintenance tasks on the specified component shall be accomplished.



PURPOSE OF COMPONENT MAINTENANCE MANUAL

The purpose of component maintenance manual is to provide details of three main Events:-

- Aircraft Component Overhaul**
- Aircraft Component Repair**
- Aircraft Component Modification**

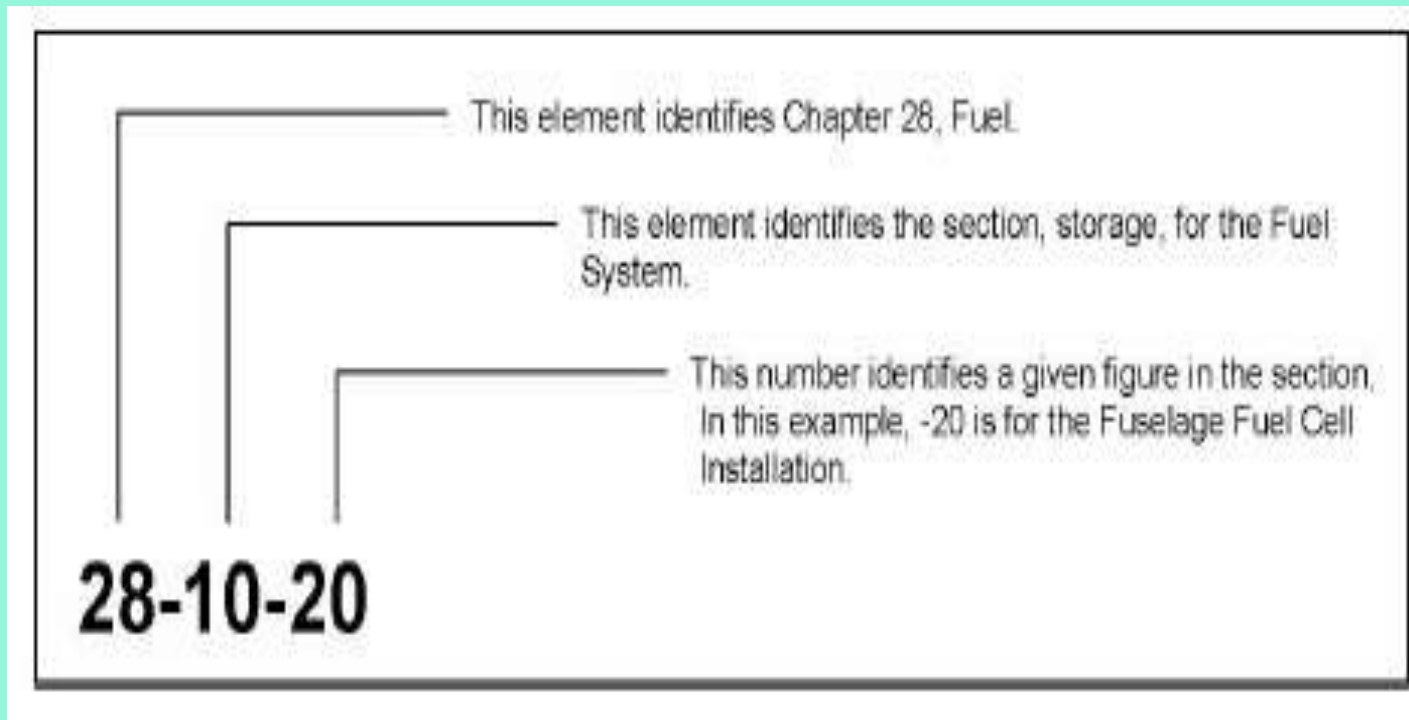
USE OF CMM

- It provides instructions and drawing of maintenance manual procedure.
- Provides instructions for function checks as well as required results .
- Provides reference drawing and charts for specific system operations .
- Provides description of that specific component Abbreviations.

PAGE BLOCKS IN CMM

- **Front matter information**
- **description and operation (1-999)**
- **Testing and fault isolation (10001-1999)**
- **Schematics and wiring diagram (2001-2999)**
- **Disassembly (3001-3999)**
- **Cleaning (4001-4999)**
- **Check (5001-5999)**
- **Repair (6001-6999)**
- **Assembly (7001-7999)**
- **files and clearances (8001-8999)**

PAGE BLOCKS NUMBERING



STRUCTURE OF CMM

- **Introduction**
- **Main body**
- **Conclusion**

FRONT MATTER INFORMATION

The front pages of the manual shall be arranged in the following order.

- **Title pages**
- **Record of revisions**
- **Service bulletin list**
- **List of effective pages**
- **List of tables**
- **Introduction**

DESCRIPTION AND OPERATION

LSI Lufthansa Systems Inc.

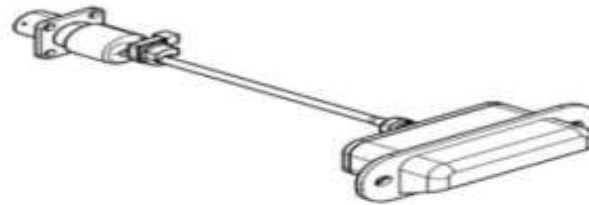
COMPONENT MAINTENANCE MANUAL
PNR 8400-1

DESCRIPTION AND OPERATION

TASK 33-34-01-870-806-A1

1. GENERAL

The Panel Light is part of the lighting system of the A/C. Refer to (FIGURE 1) for a view of the Panel Light.



PANEL LIGHT
FIGURE 1

TASK 33-34-01-870-810-A1

2. DESCRIPTION AND OPERATION

A. Description

- (1) The Panel Light is connected to the 28 VDC power supply.
- (2) The LEDs are a permanent part of the light assembly and are not replaceable.
- (3) The Panel Light housing is made of aluminium.
- (4) Refer to Table 1 for the technical data of the Panel Light.

DESCRIPTION AND OPERATION

LSI LIGHTHOUSE
Systems Inc.

COMPONENT MAINTENANCE MANUAL
PNR 8400-1

Dimensions	Height: 25.4 mm (1.00 in.) Width: 79.5 mm (3.13 in.) Depth: 34.4 mm (1.35 in.)
Weight	max. 60 g (0.13 lb)
Operating Voltage	28 VDC
Operating Current	< 107 mA
Cable length incl. Connector	132.5 +/- 6.4 mm (5.22 +/- 0.25 in.)

TECHNICAL DATA
TABLE 1

B. Operation

(1) Electrical Operation

- (a) Connect the Panel Light to the 28 VDC power supply to operate it.
- (b) The maximum current is less than 107 mA.

TESTING AND FAULT ISOLATION

- **This section contain specific tests and procedures required to determine the condition of a component , and return it to service .**

TESTING AND FAULT ISOLATION

TASK 33-34-01-700-811-A1

1. GENERAL

- A. This section gives procedures for testing the Panel Light.
- B. Unit testing is required if a unit is received from the line maintenance personnel with no definite fault localization or after unit repair.
- C. For internal wiring and pin designation of the unit refer to (FIGURE 2001).

TASK 33-34-01-700-812-A1

2. PREPARATION FOR THE TEST

A. Test Conditions

Carry out testing and fault isolation at ambient room conditions:

Temperature	18 to 28 °C (64.4 to 77 °F)
Atmospheric Pressure	880 to 1080 hPa
Relative Humidity	20 to 90 %

TEST CONDITIONS
TABLE 1001

B. Test Equipment and Materials

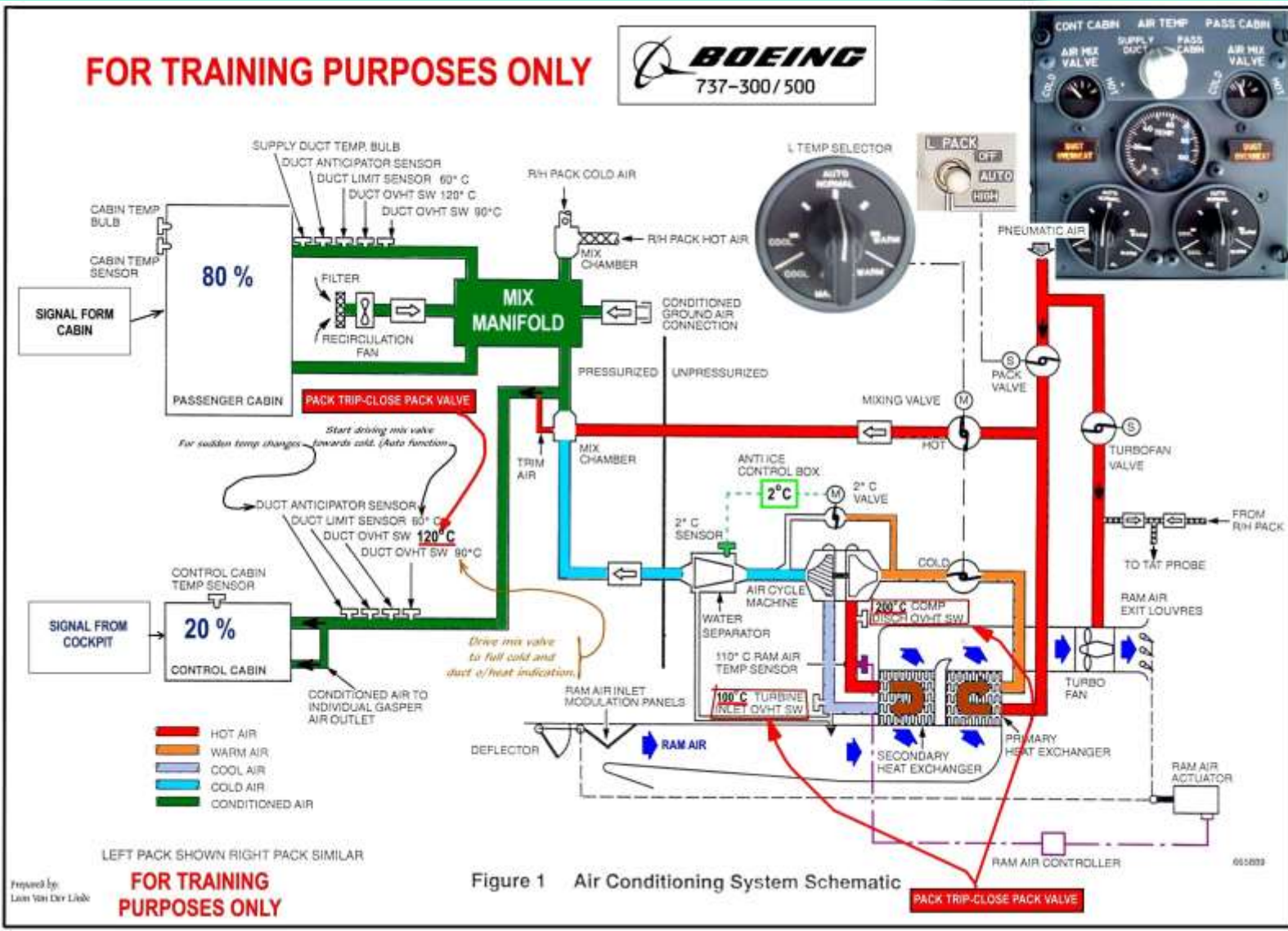
Description	Source
Power Supply (5 - 30 VDC, +/- 1 %, I _{max} = 1 A)	Locally Available
DC Voltmeter (0 - 50 VDC, +/- 1 %)	Locally Available
Ohmmeter (20 mΩ - 10 MΩ, 10 %)	Locally Available
Amperemeter (0 - 200 mA DC)	Locally Available

TEST EQUIPMENT AND MATERIALS
TABLE 1002

SCHEMATIC DIAGRAM AND WIRING

This page block shall provide all schematic diagram , wiring and interconnecting diagram of circuit cards , modules , subassemblies and external connector interconnection with the component.

FOR TRAINING PURPOSES ONLY



LEFT PACK SHOWN RIGHT PACK SIMILAR

FOR TRAINING PURPOSES ONLY

Prepared by:
Liam Van Der Linde

Figure 1 Air Conditioning System Schematic

PACK TRIP-CLOSE PACK VALVE

665893

DISASSEMBLY

This page shall contain instructions for a complete disassembly of the component which don't require opening permanent joints or unsoldering connections ,etc.

CLEANING

This page block shall present the detailed procedures required to determine the serviceability of a part , assembly specific , inter- relationship of parts that perform a functional operation etc.

INSPECTION / CHECK

This page block shall present the detailed procedures required to determine the serviceability of a part , assembly, specific inter- relationship of parts that perform a functional operation, etc.

REPAIR

This page block contains detailed repair procedures and specifications necessary for restoring a component to serviceable condition.

ASSEMBLY

This page block contains assembly instructions for a complete build up of the component.

