

SUPPLEMENTAL AIRPLANE MAINTENANCE MANUAL

DA 62

2EXCEL ISR CONFIGURATION

This Supplemental AMM is approved and is valid in conjunction with the basic Airplane Maintenance Manual (AMM).

The limitations and information contained herein either supplement or in case of conflict, override those in the AMM.

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This document must be carried in the Airplane Maintenance Manual (AMM) at all times. It describes the maintenance procedures.

The technical information contained in this document has been approved under the authority of DOA ref. EASA.21J.052.

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FOREWORD

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Any occurrence related to this DEO shall be reported in writing to the address above or submitted to E-Mail airworthiness-austria@diamondaircraft.com.

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CHAPTER 03

GENERAL DESCRIPTION OF THE AIRPLANE

1. Description

The DA 62 can be equipped with optional mission equipment that allows the aircraft to be used for law enforcement, surveillance, border control and search & rescue. The equipment as part of this DEO consists of a TC-375 camera system attached via a quick connect unit, an AIS receiver, a Rohde & Schwarz Multiband Radio, a VHF/FM Radio and Video Encoder providing live video to a mission PC.

This supplemental AMM provides instructions for Continued Airworthiness related to this DEO.

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CHAPTER 05
TIME LIMITS AND MAINTENANCE CHECKS
Section 05-28-50
Maintenance Checklist DA 62 Airframe

1. Exterior of the Fuselage

F. 2Excel ISR Configuration

Note: You must also do the applicable maintenance work described in Supplemental AMM M30.

		Interval					
	Inspection Items, 2Excel ISR Configuration	100	200	1000	2000	Time	Initials
1.	Check all cables for improper connection and incorrect routing.	X	X	X	X		
2.	Check all cables for chafing.	X	X	X	X		
3.	Check attachment of TC-375 camera system for insecure mounting: – Check for loose or missing fasteners. – Check mounting brackets for cracks and deformation.	X	X	X	X		
4.	Check equipment installed in the rear baggage compartment for improper or insecure mounting and for loose or missing fasteners: – Video Splitter and Converter – Mission PC – Video Encoder – Multiband Transceiver – AIS Receiver – P139-HD Audio Router – Ethernet Switch	X	X	X	X		

		Interval					
	Inspection Items, 2Excel ISR Configuration	100	200	1000	2000	Time	Initials
5.	Check equipment installed in the cabin and operator Dzus console for improper or insecure mounting and for loose or missing fasteners: – Pilot Display – Left Hand Operator Display – Right Hand Operator Display – GB6500 Remote Control Unit – P139-HD Control Panel (2x) – Maritime VHF/FM Airborne Transmitter – Single-PTT Dimming Panel – Keyboard	X	X	X	X		
6.	Check equipment installed in the nose baggage compartment for improper or insecure mounting and for loose or missing fasteners: – Britannia 2000 Transmitter – DC/DC Converter	X	X	X	X		

CHAPTER 11
PLACARDS AND MARKINGS
Section 11-30
Interior Placards and Markings

1. General

Install the corresponding placard in the LH & RH Nose baggage compartment:

No Baggage
allowed

Figure 1: Placard in Nose Baggage Compartment (LH)

Max. Baggage:
10 kg (22 lb)

Figure 2: Placard in Nose Baggage Compartment (RH)

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CHAPTER 24
ELECTRICAL POWER
Section 24-81-00
2Excel ISR Configuration

1. General

The Mission Equipment part of the 2Excel ISR Configuration is supplied with power from the Mission Power Panel, which is installed on the RH side in the rear baggage compartment.

2. Overview Electrical Loads

For an overview of the electrical power consumption of the 2Excel ISR Configuration refer to the Supplemental AFM D71, Section 7.10.

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CHAPTER 25
EQUIPMENT / FURNISHINGS
Section 25-70-32
2Excel ISR Configuration

1. Description of the Components

TC-375 camera system

The TC-375 camera system consists of the following main components:

- The TC-375 Turret Camera Unit.
- The Hand Control Unit (HCU).
- The Quick Disconnect Device (QDD).

The TC-375 is installed in the WX Multi-Purpose Nose and provides a daylight camera with a high-definition zoom color camera as well as thermal imagers.

The HCU is loose equipment in the rear passenger compartment.

Maritime VHF Radio

The Maritime VHF Radio consists of the following main components:

- The VHF Antenna.
- The Maritime VHF/FM Airborne Transmitter.

This system allows VHF/FM communication. The transmitter is installed in the Operator Middle Console while the antenna is located on the Rear Fuselage Belly.

Video Encoder

The video encoder is installed in the Rear Baggage Compartment and allows for low latency video encoding from multiple inputs.

Automatic Identification System (AIS)

The Automatic Identification System (AIS) consists of the following main components:

- The AIS Receiver.
- The VHF Antenna.

The AIS Receiver is located in the Rear Baggage Compartment, while the VHF Antenna of the system is on the Equipment Wiring Installation Duct.

These devices allow the aircraft to receive AIS data from maritime vessels.

Mission Management System

The Mission Management System Consists of the following main components:

- The Mission PC.
- The LH Operator Display.
- The RH Operator Display.
- The 7" Display/ Recorder.
- The Keyboard with Touchpad.
- The Ethernet Switch.
- The Video Splitter.

The Mission PC and Ethernet Switch are located in the Rear Baggage Compartment, the Video Splitter is in the Nose Baggage Compartment while the displays and keyboard are installed in the cabin.

These components allow for control and monitoring of other Mission Systems.

Maintenance Practices

1. Remove/Install Procedures

Additional Mission Equipment may be removed separately, assumed that affected Mission Bus Circuit breaker is disengaged and secured, and affected Mission Bus is identified as “inop” with a Placard on the Mission bus switch panel.

Aircraft W&B and AFM Equipment List has to be corrected after each Removal/Installation of the additional Mission equipment.

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CHAPTER 92
WIRING DIAGRAMS

1. General

Title	Drawing No.	Rev. No.	No. of Sheets
Wiring, System	M071-9225-00-01_EPA	-	1

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