

**SUPPLEMENT D58
TO THE AIRPLANE FLIGHT MANUAL
DA 62**

2EXCEL PROVISIONS

Doc. No.	: 7.01.25-E
	: 11.01.05-E
Date of Issue of the Supplement	: 23-Jan-2025
Design Change Advisory	: DEO 62-058

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



Intentionally left blank.

0.1 RECORD OF REVISIONS

Rev. No.	Reason	Chapter	Page(s)	Date of Revision	Approval Note	Date of Approval	Date Inserted	Signature

0.3 LIST OF EFFECTIVE PAGES

Chapter	Page	Date
0	9-D58-1	23-Jan-2025
	9-D58-2	23-Jan-2025
	9-D58-3	23-Jan-2025
	9-D58-4	23-Jan-2025
	9-D58-5	23-Jan-2025
	9-D58-6	23-Jan-2025
1	9-D58-7	23-Jan-2025
2	appr. 9-D58-8	23-Jan-2025
3	9-D58-9	23-Jan-2025
4A	9-D58-10	23-Jan-2025
4B	9-D58-10	23-Jan-2025
5	9-D58-10	23-Jan-2025
6	9-D58-11	23-Jan-2025
	9-D58-12	23-Jan-2025
7	9-D58-13	23-Jan-2025
8	9-D58-14	23-Jan-2025

Page 9-D58-4	23-Jan-2025 Rev. 0	Doc. # 7.01.25-E Doc. # 11.01.05-E
-----------------	-------------------------	---------------------------------------

0.4 TABLE OF CONTENTS

	Page
1. GENERAL	9-D58-7
2. OPERATING LIMITATIONS	9-D58-8
3. EMERGENCY PROCEDURES	9-D58-9
4A.NORMAL OPERATING PROCEDURES	9-D58-10
4B.ABNORMAL OPERATING PROCEDURES	9-D58-10
5. PERFORMANCE	9-D58-10
6. MASS AND BALANCE	9-D58-11
7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS	9-D58-13
8. AIRPLANE HANDLING, CARE AND MAINTENANCE	9-D58-14

FOREWORD

This document is protected by copyright. All associated rights, in particular those of translation, reprinting, radio transmission, reproduction by photo-mechanical or similar means and storing in data processing facilities, in whole or part, are reserved.

Copyright © by: DIAMOND AIRCRAFT INDUSTRIES GMBH

Nikolaus-August-Otto-Strasse 5

2700 Wiener Neustadt, Austria

Phone : +43-2622-26700

Fax : +43-2622-26780

E-Mail : office@diamondaircraft.com

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

1. GENERAL

1.1 INTRODUCTION

The DA 62 MPP can be equipped with an optional 2Excel Provision. To enable this installation the WX Multi-Purpose Nose (System No.: M30) must be installed.

The supplements of the following modules must be included into the AFM:

Modules	Doc. No.
M30 - WX Multi-Purpose Nose	Supplement STC-62-001-M30
M50 - Camera Hatch	Supplement STC-62-001-M50
M90 - Equipment Wiring Installation Duct	Supplement STC-62-001-M90
Alternative Seating Configuration	Supplement STC 62-002
M10 - Display Mount Provision	Supplement M10

2. OPERATING LIMITATIONS

2.12 FLIGHT CREW

For flights with the MISSION MASTER switch ON:

Minimum crew : 2 (two persons) consisting of
: 1 pilot and
1 mission equipment operator
seated in the rear cabin

WARNING

The operation of the airplane in aerial work needs special training for the pilot and the operator.

2.13 KINDS OF OPERATION

Flights according to VFR, NVFR and IFR with mission master ON are permitted.

2.14 Limitation Placards

All limitation placards are shown below. A list of all placards is included in the Supplemental Airplane Maintenance Manual (Doc. No. 7.02.25- DEO 62-058).

No Baggage allowed

Max. Baggage: 10 kg (22 lb)

3. EMERGENCY PROCEDURES

WARNING

The mission system power supply must be switched off in any emergency, abnormal, or icing condition.

3.12 SMOKE AND FIRE

3.12.6 CABIN SMOKE

1. MISSION MASTER OFF

Initiate an emergency descent

2. FLAPS UP
3. LANDING GEAR DOWN
4. POWER lever IDLE
5. FLAPS as required

WARNING

Max. operating speed with equipment installed: $v_{MAX} = 162$ KIAS

6. Land on the nearest suitable airfield.

END OF CHECKLIST

4A. NORMAL OPERATING PROCEDURES

No change.

4B. ABNORMAL OPERATING PROCEDURES

No change.

5. PERFORMANCE

No change.

6. MASS AND BALANCE

6.4 FLIGHT MASS AND CENTER OF GRAVITY

6.4.1 MOMENT ARMS

The lever arms of the individual items of the 2Excel Provision aft of the Datum Plane:

Item	Mass		Lever Arm	
	kg	lb	m	in
GPS Antenna (L1/L2/L5 GPS/ GLONASS)	0.2	0.44	-0.57	-22.44
GPS Antenna (L1/L2/L5 GPS/ GLONASS)	0.2	0.44	-0.37	-14.56
VHF Antenna	0.27	0.59	1.33	52.36
VHF Antenna	0.27	0.59	4.42	174.01
Broadband Blade Antenna	1.6	3.5	3.45	135.82
GPS Antenna (L1/L2 GPS/GLONASS)	0.33	0.72	3.79	149.21
C-Band Antenna	0.05	0.11	0.7	27.56
GPS Splitter 1x4	0.35	0.77	-0.28	-11.02

NOTE

The masses shown in the table above are equipment masses without mounting provisions.

6.5.1 ADDITIONAL EQUIPMENT LIST

Airplane Serial No.:		Registration:		Date:	
No.	Description	Part No.	Manufacturer	S/N	Installed
1	GPS Antenna (L1/L2/L5 GPS/GLONASS)	MAT_743GPS12 16A-T1	Matterwaves	99298	
2	GPS Antenna (L1/L2/L5 GPS/GLONASS)	MAT_743GPS12 16A-T1	Matterwaves	067397	
3	VHF Antenna	CI 292-3	Comant	751688	
4	VHF Antenna	CI 292-3	Comant	751689	
5	Broadband Blade Antenna	21-50-98	Cooper Antennas	0500	
6	GPS Antenna (L1/L2 GPS/GLONASS)	42GOXX16A4- XT-1-1	Antcom	463343	
7	C-Band Antenna	2754	Britannia 2000		
8	GPS Splitter 1X4	NALDCBS1X4-T/ 9.0/MC	GPS Networking		

NOTE

Changes in mass and balance caused by the installation of the 2Excel Provision must be taken into consideration.

7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS

7.1 INTRODUCTION

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 Antennas and Mission Provisions, providing a basis for a later ISR System installation.

8. AIRPLANE HANDLING, CARE AND MAINTENANCE

No change.