

DA 62 AFM  
Supplement  
STC-62-005-S03



Ice Protection System  
FIKI for MTOM above  
2300 kg (5071 lb)

**SUPPLEMENT STC-62-005-S03  
TO THE AIRPLANE FLIGHT MANUAL  
DA 62**

**ICE PROTECTION SYSTEM  
FOR FLIGHT INTO KNOWN ICING  
FOR MTOM ABOVE 2300 kg (5071 lb)**

**Doc. No. : 7.01.25-E  
11.01.05-E**

**Date of Issue : 27-Feb-2024**

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**DIAMOND AIRCRAFT INDUSTRIES GMBH  
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## **FOREWORD**

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Doc. # 7.01.25-E  
Doc. # 11.01.05-E

Rev. 0      27-Feb-2024

Page 9-STC-  
005-S03-3

Ice Protection System  
FIKI for MTOM above  
2300 kg (5071 lb)



DA 62 AFM  
Supplement  
STC-62-005-S03

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## 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-STC-005-S03-1	11-May-2023
	9-STC-005-S03-2	11-May-2023
	9-STC-005-S03-3	11-May-2023
	9-STC-005-S03-4	11-May-2023
	9-STC-005-S03-5	11-May-2023
	9-STC-005-S03-6	11-May-2023
	9-STC-005-S03-7	11-May-2023
	9-STC-005-S03-8	11-May-2023
1	9-STC-005-S03-9	11-May-2023
2	EASA approved 9-STC-005-S03-10	11-May-2023
3	9-STC-005-S03-11	11-May-2023
	9-STC-005-S03-12	11-May-2023
4A	9-STC-005-S03-13	11-May-2023
4B	9-STC-005-S03-14	11-May-2023
5	9-STC-005-S03-15	11-May-2023
	9-STC-005-S03-16	11-May-2023
	9-STC-005-S03-17	11-May-2023
	9-STC-005-S03-18	11-May-2023
	9-STC-005-S03-19	11-May-2023
	9-STC-005-S03-20	11-May-2023
6	9-STC-005-S03-21	11-May-2023
7	9-STC-005-S03-21	11-May-2023
8	9-STC-005-S03-21	11-May-2023
	9-STC-005-S03-22	11-May-2023

Page 9-STC-005-S03-6	27-Feb-2024	Rev. 0	Doc. # 7.01.25-E Doc. # 11.01.05-E
----------------------	-------------	--------	---------------------------------------

## 0.4 TABLE OF CONTENTS

	Page
1. GENERAL .....	9-STC-005-S03-9
2. OPERATING LIMITATIONS .....	9-STC-005-S03-10
3. EMERGENCY PROCEDURES .....	9-STC-005-S03-11
4A. NORMAL OPERATING PROCEDURES .....	9-STC-005-S03-13
4B. ABNORMAL OPERATING PROCEDURES .....	9-STC-005-S03-14
5. PERFORMANCE .....	9-STC-005-S03-15
6. MASS AND BALANCE .....	9-STC-005-S03-21
7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS ...	9-STC-005-S03-21
8. AIRPLANE HANDLING, CARE AND MAINTENANCE .....	9-STC-005-S03-21

**Ice Protection System  
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**DA 62 AFM  
Supplement  
STC-62-005-S03**

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## 1. GENERAL

This Supplement to the AFM Supplement S03 contains all necessary information to operate the ice protection system of the DA 62 with a Maximum Take-Off Mass (MTOM) above 2300 kg (5071 lb) in known icing conditions.

Ice Protection System  
FIKI for MTOM above  
2300 kg (5071 lb)



DA 62 AFM  
Supplement  
STC-62-005-S03

## 2. OPERATING LIMITATIONS

No change.



### 3. EMERGENCY PROCEDURES

#### 3.1 INTRODUCTION

##### 3.1.2 CERTAIN AIRSPEEDS IN EMERGENCIES

*If icing conditions do exist:*

Event		
One engine inoperative speed for best rate of climb $V_{YSE}$	Above 2300 kg (5071 lb)	104 KIAS

### 3.7 ONE ENGINE INOPERATIVE PROCEDURES

#### 3.7.6 ENGINE FAILURES IN FLIGHT

##### (a) Engine Failure During Initial Climb

2. Airspeed .....  $V_{YSE}$  :  
 104 KIAS  
 above 2300 kg (5071 lb)

##### (b) Engine Failure During Flight

2. Airspeed .....  $V_{YSE}$  :  
 104 KIAS  
 above 2300 kg (5071 lb)



**3.7.7 LANDING WITH ONE ENGINE INOPERATIVE**

Final approach speed:

Above 2300 kg (5071 lb) . . . . . 106 KIAS ( $v_{REF}$ /FLAPS UP)  
101 KIAS ( $v_{REF}$ /FLAPS T/O)

**3.7.8 GO-AROUND / BALKED LANDING WITH ONE ENGINE INOPERATIVE**

Airspeed:

Above 2300 kg (5071 lb) . . . . . 106 KIAS ( $v_{REF}$ /FLAPS UP)  
101 KIAS ( $v_{REF}$ /FLAPS T/O)

**3.15 ICE PROTECTION SYSTEM EMERGENCIES**

**3.15.1 FAILURE OF THE ICE PROTECTION SYSTEM**

*Before landing:*

5. Final approach speed:

Above 2300 kg (5071 lb) . . . . . min 106 KIAS



**4A. NORMAL OPERATING PROCEDURES**

**4A.2 AIRSPEEDS FOR NORMAL OPERATING PROCEDURES**

*With residual ice on protected surfaces and/or ice accumulation on the unprotected areas of the airplane:*

	FLAPS	Speed [KIAS]
		above 2300 kg (5071 lb)
Reference landing approach speed	UP	106 KIAS
	T/O	101 KIAS
Final approach speed	T/O	101 KIAS

**4A.6.8 CLIMB**

*Whilst in icing conditions:*

- 3. Airspeed ..... maintain:  
 105 KIAS  
 above 2300 kg (5071 lb)

**4A.6.11 APPROACH & LANDING**

**NOTE**

Approach & Landing with a Flight Mass above 2300 kg (5071 lb) is an abnormal operation. Refer to Chapter 4B.11 of this Supplement for appropriate airspeeds.

Doc. # 7.01.25-E Doc. # 11.01.05-E	Rev. 0     27-Feb-2024	Page 9-STC-005-S03-13
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Ice Protection System  
FIKI for MTOM above  
2300 kg (5071 lb)



DA 62 AFM  
Supplement  
STC-62-005-S03

## **4B. ABNORMAL OPERATING PROCEDURES**

### **4B.11 LANDING WITH A HIGH LANDING MASS**

*Whilst in icing conditions:*

Airspeeds above 2300 kg (5071 lb) . . . . . min. 106 KIAS with FLAPS UP  
min. 101 KIAS with FLAPS T/O



**5. PERFORMANCE**

**5.3.4 STALLING SPEEDS**

2360 kg (5203 lb)		Bank Angle							
		0°		30°		45°		60°	
Gear	Flaps	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS
UP	UP	76	75	82	81	91	90	108	107
DOWN	T/O	74	72	79	78	87	86	103	102

Ice Protection System  
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DA 62 AFM  
 Supplement  
 STC-62-005-S03

**5.3.7 CLIMB PERFORMANCE CRUISE CLIMB**

Cruise Climb							
Flaps: UP				Power: 95%			
V <sub>climb</sub> : 105 KIAS (above 2300 kg)				Gear: retracted			
Weight [kg] / [lb]	Press. Alt. [ft]	Press. Alt. [m]	Rate of Climb - [ft/min]				
			Outside Air Temperature - [°C] / [°F]				ISA
			-20 -4	-10 14	0 32	10 50	
2360 / 5203	SL		820	810	800	790	784
	2000	610	760	750	740	730	726
	4000	1219	700	690	680	670	669
	6000	1829	640	630	610	600	607
	8000	2438	570	560	540	530	543
	10000	3048	500	490	470	450	477
	12000	3658	430	410	390	350	410
	14000	4267	310	280	240	180	292
	16000	4877	160	130	90	20	153
	18000	5486	0	-30	-70	-130	3
	20000	6096	-150	-180	-220	-280	-135



**5.3.8 ONE ENGINE INOPERATIVE CLIMB PERFORMANCE**

One Engine Inoperative Climb							
Flaps: UP				Power: 95%			
v <sub>y</sub> : 104 KIAS (above 2300 kg)				Gear: retracted			
Weight [kg] / [lb]	Press. Alt. [ft]	Press. Alt. [m]	Rate of Climb - [ft/min]				
			Outside Air Temperature - [°C] / [°F]				ISA
			-20 -4	-10 14	0 32	10 50	
2360 / 5203	SL		-70	-85	-95	-110	-115
	2000	610	-95	-110	-120	-135	-137
	4000	1219	-120	-135	-150	-165	-163
	6000	1829	-150	-170	-185	-200	-189
	8000	2438	-185	-205	-225	-240	-221
	10000	3048	-225	-245	-265	-285	-254
	12000	3658	-265	-285	-315	-355	-290
	14000	4267	-345	-380	-420	-480	-369
	16000	4877	-455	-495	-545	-610	-470
	18000	5486	-585	-625	-670	-725	-583
	20000	6096	-705	-740	-785	-855	-686

**5.3.10 CRUISING (TRUE AIRSPEED TAS)**

Cruise Performance above 2300 kg (5071 lb) up to 2360 kg (5203 lb)									
Press. Alt. [ft] / [m]	Outside Air Temperature - [°C]								
	ISA-10			ISA			ISA+10		
	Pwr [%]	FF [US gal/h]	TAS [kt]	Pwr [%]	FF [US gal/h]	TAS [kt]	Pwr [%]	FF [US gal/h]	TAS [kt]
2000 610	95	19.3	143	95	19.3	145	95	19.3	146
	75	14.8	129	75	14.8	131	75	14.8	132
	60	11.8	116	60	11.8	118	60	11.8	119
	45	9.0	98	45	9.0	98	45	9.0	99
4000 1219	95	19.3	146	95	19.3	147	95	19.3	149
	75	14.8	131	75	14.8	133	75	14.8	134
	60	11.8	118	60	11.8	119	60	11.8	120
	45	9.0	99	45	9.0	99	45	9.0	100
6000 1829	95	19.3	148	95	19.3	150	95	19.3	152
	75	14.8	134	75	14.8	135	75	14.8	137
	60	11.8	120	60	11.8	121	60	11.8	122
	45	9.0	100	45	9.0	100	45	9.0	101
8000 2438	95	19.3	151	95	19.3	153	95	19.3	154
	75	14.8	136	75	14.8	137	75	14.8	139
	60	11.8	122	60	11.8	123	60	11.8	124
	45	9.0	101	45	9.0	101	50	9.8	111
10000 3048	95	19.3	154	95	19.3	156	95	19.3	157
	75	14.8	138	75	14.8	140	75	14.8	141
	60	11.8	124	60	11.8	125	60	11.8	126
	45	8.9	101	50	9.8	111	50	9.8	112
12000 3658	95	19.3	157	95	19.3	158	95	19.2	160
	75	14.8	141	75	14.8	142	75	14.8	144
	60	11.8	126	60	11.8	127	60	11.8	128
	50	9.7	111	50	9.7	112	50	9.7	112
14000 4267	95	18.7	157	95	18.5	158	95	18.1	159
	75	14.8	143	75	14.8	145	75	14.8	146
	60	11.8	127	60	11.8	128	60	11.8	129
	50	9.7	112	50	9.7	113	50	9.7	113
16000 4877	95	17.3	156	87	17.1	157	85	16.7	157
	75	14.8	145	75	14.8	147	75	14.8	148
	60	11.8	129	60	11.8	130	60	11.8	131
	50	9.7	113	50	9.7	113	55	10.7	123



Cruise Performance above 2300 kg (5071 lb) up to 2360 kg (5203 lb)									
Press. Alt. [ft] / [m]	Outside Air Temperature - [°C]								
	ISA-10			ISA			ISA+10		
	Pwr [%]	FF [US gal/h]	TAS [kt]	Pwr [%]	FF [US gal/h]	TAS [kt]	Pwr [%]	FF [US gal/h]	TAS [kt]
<b>18000</b> 5486	80	15.7	152	80	15.7	154	80	15.7	155
	75	14.8	148	75	14.8	149	75	14.8	150
	60	11.8	130	60	11.8	131	60	11.8	132
	55	10.7	123	55	10.7	123	55	10.7	123
<b>20000</b> 6096	75	14.8	150	75	14.8	151	70	13.9	147
	60	11.8	132	60	11.8	132	60	11.8	133



**5.3.12 GO-AROUND CLIMB PERFORMANCE**

**NOTE**

A go-around with a Flight Mass above 300 kg (5071 lb) is an abnormal operation.

Go-Around Climb Performance							
Flaps: T/O				Power: MAX			
V <sub>REF</sub> : 101 KIAS (above 2300 kg)				Gear: extended			
Weight [kg] / [lb]	Press. Alt. [ft]	Press. Alt. [m]	Rate of Climb - [ft/min]				
			Outside Air Temperature - [°C] / [°F]				ISA
			-20 -4	-10 14	0 32	10 50	
2360 / 5203	SL		400	385	370	355	346
	2000	610	370	355	340	320	319
	4000	1219	340	320	300	285	289
	6000	1829	300	285	265	245	257
	8000	2438	265	240	225	195	225
	10000	3048	225	200	160	115	184

DA 62 AFM  
Supplement  
STC-62-005-S03



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## **6. MASS AND BALANCE**

No change.

## **7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS**

No change.

## **8. AIRPLANE HANDLING, CARE AND MAINTENANCE**

No change.

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