OPERATORS MANUAL

FOR ROTAX ENGINE TYPE 915 i A / C24 SERIES

REF NO.: OM-915 i A / C24 I PART NO.: 898851

A BRP BRAND

⚠ WARNING

Before starting the engine, read the Operators Manual, as it contains important safety relevant information. Failure to do so may result in personal injuries including death. Consult the original equipment manufacturers handbook for additional instructions!

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Table of Content

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INTRO) Introduction

Topics in this chapter

Foreword

BRP-Rotax GmbH & Co KG (hereinafter “BRP-Rotax”) provides “Instructions for Continued Airworthiness”, which are based on the design, tests and certification of the engine and its components. These instructions apply only to engines and components supplied by BRP-Rotax.

Before operating the engine, read this Operators Manual (OM) carefully. If any passages of the Manual are not clearly understood or in case of any questions, please contact our ROTAX® Authorized Distributors or their independent Service Centers.

This Operators Manual (OM) contains important information about safe operation of the engine together with descriptions of the systems, technical data, operating media and the operational limits of the engine.

The specified information and procedures apply only to the engine and not to specific applications in particular aircraft. The aircraft manufacturers Operators Manual is therefore definitive in terms of the operation of the engine, as it contains all of the aircraft-specific instructions

BRP-Rotax wishes you much pleasure and satisfaction flying your aircraft powered by this ROTAX® aircraft engine.

Document structure

The structure of the Manual follows whenever it is possible the structure of the “GAMA Specification #1 for Pilot’s Operating Handbook“.

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LEP) LIST OF EFFECTIVE PAGES

Each new revision to the Operators Manual will have a new List of Effective Pages.

Chapter	Page	Date
	cover page	
INTRO	1	Sept. 01 2022
	2	Sept. 01 2022
LEP	1	Sept. 01 2022
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TOA) Table of amendments

Approval*
The technical content of this document is approved under the authority of the DOA ref. EASA.21J.048.

Edition 0/Rev. 0	December 01 2017	
Revision 1	June 01 2019	
Revision 2	Dec. 01 2020	
Revision 3	July 01 2021	Obsolete with Revision 4, which is a complete re-revision
Revision 4	September 01 2022	

rev. no.	chapter	page	date of change	remark for approval	date of approval from authorities	date of inclusion	signature
0	INTRO	all	Dec. 01 2017	DOA*			
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0	TOA	all	Dec. 01 2017	DOA*			
0	1 up to 10	all	Dec. 01 2017	DOA*			

rev. no.	chapter	page	date of change	remark for approval	date of approval from authorities	date of inclusion	signature
1	LEP	all	June 01 2019	DOA*			
1	TOA	all	June 01 2019	DOA*			
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1	3	3–13, 3–16 up to 3–20	June 01 2019 June 01 2019	DOA* DOA*			

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1	4	4–3, 4–4	June 01 2019 June 01 2019	DOA* DOA*			
1	5	5–2	June 01 2019	DOA*			

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1	7	7–2, 7–3, 7–8 7–17	June 01 2019 June 01 2019 June 01 2019 June 01 2019	DOA* DOA* DOA* DOA*			
1	8	8–1	June 01 2019	DOA*			

rev. no.	chapter	page	date of change	remark for approval	date of approval from authorities	date of inclusion	signature
2	LEP	all	Dec. 01 2020	DOA*			
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3	LEP	all	July 01 2021	DOA*			
3	TOA	all	July 01 2021	DOA*			
3	1	1–15	July 01 2021	DOA*			

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3	2	2–3, 5	July 01 2021	DOA*			
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3		7–14	July 01 2021	DOA*			
3	8	8–2	July 01 2021	DOA*			

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4	4	22	Sept. 01 2022	DOA*			
4	5	all	Sept. 01 2022	DOA*			

Summary of amendments

Summary of the relevant amendments in this context, but without any claim to completeness.

rev no.	chap-ter	page	date of change	comments
1	1	1–14	June 01 2019	New configuration 2
1	3	3–18	June 01 2019	Fuel pump check: Text correction
1	4	4–3	June 01 2019	New: EMS Warning lamps
1	5	5–2	June 01 2019	Performance data and fuel consumption: Text correction
1	7	7–3	June 01 2019	New figure
		7–8	June 01 2019	New figure
		7–17	June 01 2019	New text

rev no.	chap-ter	page	date of change	comments
2	1	1–15	Dec. 01 2020	Text change
2	2	2–3	Dec. 01 2020	Text change
2		2–4	Dec. 01 2020	Text change
2	3	3–3	Dec. 01 2020	New figure
2		3–5	Dec. 01 2020	Text change
2		3–6	Dec. 01 2020	Text change
2		3–9	Dec. 01 2020	New diagram
2		3–14	Dec. 01 2020	Text change
2	4	4–6	Dec. 01.2020	Text change
2	9	9–2	Dec. 01 2020	New form

rev no.	chap-ter	page	date of change	comments
3	1	15	July 01 2021	New additional designation of engine type (C24)
3	2	3, 4,6	July 01 2021	New text
3	3	6 up to 23	July 01 2021	Text change
3	4	4–7	July 01 2021	Text change
3	7	9	July 01 2021	Text change
3		4,12,13	July 01 2021	New figure
3		16	July 01 2021	Text change, New figure
3	8	2,3	July 01 2021	Text change

rev no.	chap-ter	page	date of change	comments
4	1	15	Sept. 01 2022	New text
4	2	3, 4,	Sept. 01 2022	Text change
4	2	7, 8	Sept. 01 2022	Table removed, Text removed
4	4	22	Sept. 01 2022	Text change
4	5	all	Sept. 01 2022	New text, New Diagrams

1) General note

Topics in this chapter

1.1) General

Purpose

The purpose of this Operators Manual (OM) is to familiarize the aircraft manufacturers installing this aircraft engine with operating instructions and safety information.

This document is not intended for use by end customers (private aircraft owners, flight schools...) for operating the engine. Due to various executions of engine installations, only the aircraft manufacturer is able to provide end customers with operation and safety information tailored for a specific aircraft.

For detailed information related to aircraft and aircraft/engine installation, maintenance, safety or flight operation, consult the documentation provided by the aircraft manufacturer and/or its dealer. For additional information on engines, their maintenance or parts, you can also contact your nearest ROTAX® authorized aircraft engines distributor or their independent Service Center.

Engine serial number

When making inquiries or ordering parts, always indicate the engine serial number. Due to continuous product improvement, engines of the same engine type might require different support and spare parts. The engine serial number is located on top of the crankcase, behind the propeller gearbox.

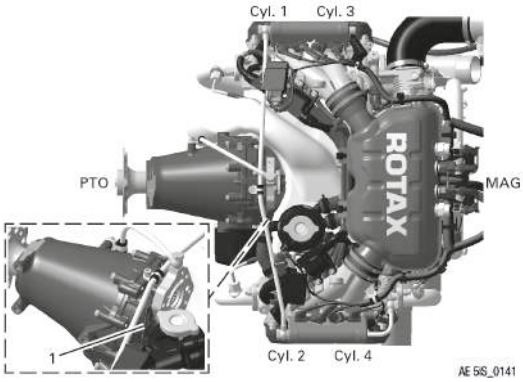


Figure 1: Pos. 1: Engine serial number

1.2) Abbreviations and terms (depending on respective engine type)

Abbreviations	Description
*	Reference to another section
⊕	center of gravity

Abbreviations	Description
	The drop symbol indicates use of sealing agents, adhesives or lubricants (only in the Maintenance Manual Heavy)
°C	Degrees Celsius (Centigrade)
°F	Degrees Fahrenheit
rpm	Revolutions per minute
A	Ampere
AAPTS	Ambient Air Pressure Temperature Sensor
AC	alternating current
AD	Airworthiness Directives
Ah	Ampere hour
A/C	Aircraft
AC-DC	EMS Modul voltage converter
AR	as required
assy.	assembly
ASB	Alert Service Bulletin
ACG	Austro Control GmbH
ACL	Anti Collision Light
API	American Petrol Institute
ASTM	American Society for Testing and Materials
ATA	Air Transport Association
AWG	American Wire Gauge
CAN	Controller Area Network
CCS	Camshaft position sensor
Coil 1–4	Ignition coils 1–4
CPS 1+2	Crankshaft Position Sensor 1+2
CSA	Constant Speed Actuator
CTS	Cooling Temperature Sensor
CW	clockwise
CCW	counter-clockwise

Abbrevia-tions	Description
CGSB	Canadian General Standards Board
DCDI	Dual Capacitor Discharge Ignition
DC	direct current
DOA	Design Organisation Approval
DOT	Department of Transport
EASA	European Aviation Safety Agency
IM	Installation Manual
ECU	Engine Control Unit
EGT	Exhaust Gas Temperature
INTRO	Introduction
EMS	Engine Management System
EMS GND	Engine system internal ground reference which is intended to be disconnected from aircraft common ground during flight
EMC	Electromagnetic compatibility
EN	European Standard
ETFE	Ethylene Tetrafluoroethylene
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulations
FOD	Foreign object damage
FL	Flight Level
Fuse box	Power conditioning and distribution for the Engine Management System
hr.	hours
HIC A	Harness Interface Connector A
HIC B	Harness Interface Connector B
IAT	Indicated Air Temperature
ICA	Instructions for Continued Airworthiness
IFR	Instrument Flight Rules
IFSD	In-flight-shutdown
INJ 1–8	Injector 1–8

Abbrevia-tions	Description
IPC	Illustrated Parts Catalog
ips	inch per second
iRMT	independent ROTAX Maintenance Technician
ISA	International Standard Atmosphere
kg	Kilograms
KNOCK	Knock sensor
Lane A	System A of Engine Management System
Lane B	System B of Engine Management System
LOPC	Loss of power control
MAPS 1 & 2	Manifold Air Pressure Sensor 1 & 2
MATS 1 & 2	Manifold Air Temperature Sensor 1 & 2
MON	Motor Octane Number
MAG	Magneto Side
N	Newton
n.a.	not available
NDT	Non Destructive Testing
NEW	Part must be replaced against NEW (mentioned in figures)
Nm	Newtonmeter
NVFR	Night Visual Flight Rules
OAT	Outside Air Temperature
OHM	Overhaul Manual
OHV	Over Head Valve
OM	Operators Manual
OPS	Oil Pressure Sensor
OTS	Oil Temperature Sensor
PCD	Pitch Circle Diameters
PCV	Pressure Control Valve
PMA	Permanent magnet alternator

Abbrevia-tions	Description
POA	Production Organization Approval
PS	Power supply
PTFE	Polytetrafluoroethylene (Teflon)
PTO	Power Take Off
Rev.	Revision
ROTAX®	is a trademark of BRP-Rotax GmbH & Co KG
RON	Research Octane Number
RON 424	ROTAX® Standard 424
s.v.	still valid (only Illustrated Parts Catalog)
S/N	Serial Number
SAE	Society of Automotive Engineers
SEP	Single Engine Piston
SB	Service Bulletin
SI	Service Instruction
SI-PAC	Service Instruction Parts and Accessories
SPST	Single pole single throw
STP	Shielded twisted pair wire
SL	Service Letter
SMD	Surface Mounted Devices
TBO	Time Between Overhaul
TC	Type certificate
part no.	part number
TOA	Table Of Amendments
TOC	Table Of Contents
TPS	Throttle Position Sensor
TSN	Time Since New
TSNP	Time Since New Part
TSO	Time Since Overhaul
V	Volt
VFR	Visual Flight Rules

Abbrevia-tions	Description
LEP	List of Effective Pages
MM	Maintenance Manual
MEP	Multi Engine Piston
X3	Connector on Engine Management System wiring harness which serves as an interface for power supply
XXXX	shows the component serial number

1.3) Safety

Although reading such information does not eliminate any hazards, it promotes understanding, and applying the information will promote correct use of the engine. Always apply common workshop safety rules.

The information and descriptions of components and systems contained in this Manual are correct at the time of publication. BRP-Rotax maintains a policy of continuous improvement of its products without imposing upon itself any obligation to retrofit products previously manufactured.

Revisions

BRP-Rotax reserves the right to remove, replace or discontinue any design, specification, feature or other at any time, and without incurring obligation.

Measurement

Specifications are given in the SI metric system with the imperial and US customary measurement system equivalents in parenthesis.

Symbols used

This Manual uses the following symbols to emphasize particular information. This information is important and must be observed.

⚠ WARNING

Identifies an instruction which, if not followed, may cause serious injury or even fatal injury.

⚠ CAUTION

Identifies an instruction which, if not followed, may cause minor or moderate injury.

NOTICE

Identifies an instruction which, if not followed, may severely damage the engine or could void any warranty.

NOTE

Indicates supplementary information which may be needed to fully complete or understand an instruction.

ENVIRONMENTAL NOTE

Environmental notes give you tips on environmental protection.

A revision bar outside the page margin indicates a change to text or graphic.

1.4) Safety information

Use for intended purpose

⚠ WARNING

Non-compliance can result in serious injuries or death!
Never fly the aircraft equipped with this engine at locations, air speeds, altitudes or in other situations which do not allow a successful no-power landing after sudden engine stoppage.

- This engine is not suitable for acrobatics (inverted flight, etc.). Flight attitudes outside the permissible limits are not allowed.
- This engine has exclusively been developed and tested for fixed wing pusher and tractor applications and gyrocopters. In case of any other usage, the OEM is responsible for testing and the correct function of the engine.
- It should be clearly understood that the choice, selection and use of this particular engine on any aircraft is at the sole discretion and responsibility of the aircraft manufacturer, assembler and owner/user.
- Due to the varying designs, equipment and types of aircraft, BRP-Rotax grants no warranty on the suitability of its engine's use on any particular aircraft. Further, BRP-Rotax grants no warranty on this engine's suitability with any other part, components or system which may be selected by the aircraft manufacturer, assembler or user for aircraft application.

⚠ WARNING

Non-compliance can result in serious injuries or death!
For each use of DAY VFR, NIGHT VFR or IFR in an aircraft the applicable legal requirements and other existing regulations must be adhered to.

- Certain areas, altitudes and conditions present greater risk than others. The engine may require humidity or dust/sand preventative equipment, or additional maintenance may be required.
- You should be aware that any engine may seize or stall at any time. This could lead to a reciprocating crash landing and possible severe injury or death. For this reason, we recommend strict compliance with the maintenance and operation

and any additional information which may be given to you by your dealer.

Training

- Whether you are a qualified pilot or a novice, complete knowledge of the aircraft, its controls and operation is mandatory before a solo flight. Flying any type of aircraft involves a certain amount of risk. Be informed and prepared for any situation or hazard associated with flying.
- A recognized training program and continued education for piloting an aircraft is absolutely necessary for all aircraft pilots. Make sure you also obtain as much information as possible about your aircraft, its maintenance and operation from your dealer.
- Engine-specific training courses are provided by the authorized distributors according to manufacturer specifications (iRMT).

Regulations

- Respect all legal requirements or local rules pertaining to flight operation in your flying area. Only fly when and where conditions, topography, and airspeeds are safest.
- Consult your aircraft dealer or manufacturer and obtain the necessary information, especially before flying in new areas.

Instrumentation

- Select and use proper aircraft instrumentation. This instrumentation is not included in the ROTAX® engine package. Verification to the latest regulations such as FAR or EASA has to be conducted by the aircraft manufacturer.

Engine log book

- Keep an engine log book and respect engine and aircraft maintenance schedules. Keep the engine in top operating condition at all times. Do not operate any aircraft which is not properly maintained or has engine operating irregularities which have not been corrected.

Maintenance (iRMT)

- Since special training, tools and equipment are required, engine servicing shall only be performed by an authorized ROTAX® aircraft engine distributor or their independent service center. BRP-Rotax requires that any service or maintenance work be carried out and verified by a technician that has a current iRMT rating.
- When the engine will not be operated for a longer period protect the engine and fuel system from contamination and environmental exposure.

Engine operation

- Never operate the engine without sufficient quantities of operating fluids (oil, coolant, fuel).
- Never exceed the maximum permitted operational limits.

- In the interest of safety, the aircraft must not be left unattended while the engine is running.
- To eliminate the risk of injury or damage, ensure any loose equipment or tools are properly secured before starting the engine.
- Allow the engine to cool at idle for several minutes before turning off the engine.

Governor

- This engine may be equipped with a governor. The safety warning accompanying the governor must be given to the owner/operator of the aircraft into which the governor is installed.

1.5) Technical documentation

These documents form the instructions ensuring continued airworthiness of ROTAX® aircraft engines.
The information contained herein is based on data and experience that are considered applicable for authorized mechanics (iRMT, see Maintenance Manual Line (MML)) under normal conditions.
Due to the fast technical progress and fulfillment of particular specifications of the customers it may occur that existing laws, safety prescriptions, constructional and operational regulations may not be sufficient or cannot be transferred completely to the object bought, in particular for special constructions.

Documentation

- Installation Manual (IM)
- Operators Manual (OM)
- Maintenance Manual Line (MML) Maintenance Manual Heavy (MMH)
- Overhaul Manual (OHM)
- Illustrated Parts Catalog (IPC)
- Alert Service Bulletins (ASB)
- Service Bulletins (SB)
- Service Instructions (SI)
- Service Instruction–Parts and Accessories (SI-PAC)
- Service Letters (SL)

Status

The status of Manuals can be determined by checking the table of amendments. The first column of this table indicates the revision status which should be compared with the revision provided on the ROTAX®-Website: www.FLYROTAX.com
Amendments and current versions can be downloaded free of change.

Replacement pages

Furthermore the Manual is constructed in such a way that single pages can be replaced instead of the complete document. The list of effective pages is given in the chapter LEP. The particular edition and revision number is given on the footer of each page.

Reference

Any reference to a document refers to the latest edition issued by BRP-Rotax if not stated otherwise.

This symbol informs you of additional references (data sheets, Manuals, etc.) associated with the given subject.

Illustrations

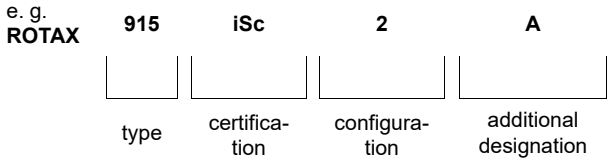
The illustrations in this Manual are merely sketches and show typical arrangements. They may not represent full detail or the exact shape of the parts but should outline the same or similar function. Therefore deriving dimensions or other details from illustrations is not permitted.
TYPICAL indicates a general view which may not represent exact details..

NOTE

The Illustrations in this Manual are stored in a graphic data base system and are provided with a consecutive irrelevant number.
This number (e.g. AE 5iS001) is of no significance for the content.

1.6) Type description

The type description consists of the following parts:



Designation

Designation		Description
Type	**915**	4-cylinder horizontally opposed, turbocharged engine.
Certification	**iSc**	Certified to EASA CS-E (TC No.EASA.E.121)
	iS	Approved to according ASTM F2339.
Configuration	**2**	Propeller shaft with flange for fixed pitch propeller.
	3	Propeller shaft with flange for constant speed propeller and drive for hydraulic governor for constant speed propeller.
Additional designation	**A**	12 Volt air-frame bus version
	C24	24 Volt air-frame bus version

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2) Operating instructions

Topics in this chapter

Introduction

The operating limits for certified engines are also given in the type certificate for the relevant engine type.
This chapter of the Operators Manual (OM) contains the operating limits that must be observed and adhered to while operating this type of engine.

2.1) Operating limits

General

NOTICE
Monitor Operating limits. Limits must not be exceeded. If one or more operating limits are exceeded, the engine must be operated so that the values fall back into the allowed range. Carry out instructions for abnormal operation

performance is measured under following boundary conditions:

- Standard engine (without governor). Without auxiliary equipment (e.g. external alternator)
- Installation in accordance with installation guidelines (e.g. intake and exhaust system). See latest Installation Manual
- ISA Condition(**I**nternational **S**tandard **A**tmosphere)

Engine speed

Parameter	Min.	Max.
Engine speed at idle	1800 rpm	–
Engine speed	–	5800 rpm (max. 5 minutes)

Performance

The engine performance is approximately proportional to the airflow value and can be calculated as follows:
Observed Power [kW] ~-6.3264+0.0169*Airflow [g/min]

Parameter	Min.	Max.
Take-off Performance (engine speed: 5800 rpm)	–	104 kW
Continuous Performance (engine speed: 5500 rpm)	–	99 kW (without governor)
Critical Altitude (MAT: max. 50 °C (120 °F))	–	15000 ft

NOTE

The max. Continuous performance is available up to the critical altitude.

Parameter	Min.	Max.
Operating Altitude	–	23000 ft

The engine performance is approximately proportional to the air flow value.

The air flow information is available on the Display CAN Bus.

Acceleration

Limit of engine operation at zero gravity and in **negative "g"** condition.

Parameter	Min.	Max.
Acceleration	–	-0.5 g (max. 5 seconds)

Static roll angle

The dry sump lubrication system warrants lubrication in every flight situation

Parameter	Min.	Max.
Static roll angle ß	–	40°

Manifold temperature

Parameter	Min.	Max.
Manifold temperature (Note*)	–	50 °C (122 °F)
Extended Manifold temperature (Note**)	> 50 °C (122 °F)	80 °C (176 °F)

Note* rated power performance is provided
Note** reduced power performance as provided in section "Extended Manifold Temperature Range – Power Performance Impact"

Extended Manifold temperature range

Power Performance Impact

Power Performance	Continuous Performance	Take-Off Performance
Resulting Power reduction	- 1 kW	- 2.7 kW

Manifold pressure

Parameter	Min.	Max.
Manifold pressure	60 hPa (1.77 in. HG)	1730 hPa (51 in. HG)

NOTE

Target pressure at a temperature from 25 °C (77 °F) to 35 °C (95 °F):
5800 rpm 1520 mbar
5500 rpm 1450 mbar
1730 mbar is the “not to exceed” value which is needed by the boost pressure control in special situations.

Boost pressure

Parameter	Min.	Max.
Boost pressure	ambient pressure	1730 hPa (51 in. HG)

Oil pressure

Parameter	
Normal operating range above 3500 rpm	2.0 to 5.0 bar (29 – 72.5 psi)
Minimum below 3500 rpm	0.8 bar (11.6 psi)
At cold start and warming up period (maximum)	7.0 bar (101.5 psi)

Oil temperature

Parameter	Min.	Max.
Engine start	-20 °C (-4 °F)	–
Take-off	50 °C (122 °F)	–
Normal operation	50 °C (122 °F)	130 °C (266 °F)

NOTICE

Operating the engine below (90 to 110 °C / 194 to 230 °F) may lead to formation of condensation water in the lubrication system. To evaporate possibly accumulated condensation water, at least once a day 100 °C (212 °F) oil temperature must be reached.

Coolant temperature

Parameter	Min.	Max.
Coolant temperature at ground idle, start procedure and warm up	-20 °C (-4 °F)	–
Coolant temperature at normal operation	–	120 °C (248 °F)

Exhaust gas temperature.

Parameter	Min.	Max.
Exhaust gas temperature.	–	950 °C (1742 °F)

EGT-Split

EGT- Split is the difference between the actual highest EGT value of the actual lowest EGT value.

Parameter	Min.	Max.
EGT-Split at > 3 Liter/hour (Fuel consumption).	–	200 °C (392 °F)
EGT-Split at < 3 Liter/hour (Fuel consumption).	–	500 °C (932 °F)

Ambient temperature

Parameter	Min.	Max.
Ambient temperature at ground idle, start procedure and warm up.	–	50 °C (122 °F)
Ambient temperature at normal operation	- 40 °C (- 40 °F)	50 °C (122 °F)

Fuel pressure

Parameter	Min.	Max.
Fuel pressure at fuel rail	2.9 bar (42 psi)	3.2 bar (46 psi)
Acceptable Fuel pressure exceedance (max. 3 sec.)	2.5 bar (36 psi)	3.5 bar (51 psi)

NOTE

Fuel pressure exceedance only allowed after power setting change.

2.2) Operating media-Coolant

NOTICE

Obey the latest edition of Service Instruction SI-915 i-001, for the selection of the correct operating media.

Conventional coolant

Conventional coolant mixed with water has the advantage of a higher specific thermal capacity than waterless coolant.

Application

When correctly applied, there is sufficient protection against vapor bubble formation, freezing or thickening of the coolant within the operating limits.
Use the coolant specified in the manufacturers documentation.

Mixture

NOTICE

Obey the operating media manufacturer's instructions!

2.3) Operating media-Fuel

NOTICE

Obey the latest edition of Service Instruction SI-915 i-001, for the selection of the correct fuel.

NOTICE

Use only fuel suitable for the respective climatic zone.

NOTE

Risk of vapour formation if using winter fuel for summer operation.

2.4) Operating media-Lubricants

NOTICE

Obey the manufacturer's instructions about the lubricants.
If the engine is mainly run on AVGAS more frequent oil changes will be required. See Service Information SI-915 i-001, latest edition.

Oil type and specification

For the selection of suitable lubricants refer to the additional information in the Service Information SI-915 i-001, latest edition.

Oil consumption

Max. 0.06 l/h (0.13 liq pt/h)

Oil viscosity

For the oil viscosity refer to the additional information in the Service Information SI-915 i-001, latest edition.

3) Abnormal operation

Topics in this chapter

⚠ WARNING

Non-compliance can result in serious injuries or death!
Unless stated otherwise in this chapter, operating an engine with limited airworthiness is not permitted. At unusual engine behavior conduct checks as per Maintenance Manual Line (MML) Chapter 05-50-00 before the next flight. Only qualified staff (authorized by the Aviation Authorities) trained on this particular engine, is allowed to carry out maintenance and repair work.

The following description of procedures depends on the respective type of installation in the aircraft and shall therefore only be seen functionally.

3.1) EMS

Warning Lamps

HIC A**)	HIC B**)	Effect on engine	Proposed action on ground if warning lamp is persistent *)	Proposed action in flight *)
0 V	Oscillating 0-12 V	No effect on engine power, 2 systems available	Maintenance action required	Flight is possible to your destination at your own discretion.
Oscillating 0-12 V	0 V	No effect on engine power, 2 systems available	Maintenance action required	Flight is possible to your destination at your own discretion.
0 V	12 V	No effect on engine power, rely on alternate system	Maintenance action required	Flight is possible to your destination at your own discretion.
Oscillating 0-12 V	Oscillating 0-12 V	No effect on engine power, rely on alternate power supply system	Maintenance action required	Flight is possible to your destination at your own discretion.
Oscillating 0-12 V	12 V	No effect on engine power, rely on alternate system (oscillating system)	Maintenance action required	Flight is possible to your destination at your own discretion.
12 V	0 V	No effect on engine power, rely on alternate system	Maintenance action required	Flight is possible to your destination at your own discretion.

HIC A**)	HIC B**)	Effect on engine	Proposed action on ground if warning lamp is persistent *)	Proposed action in flight *)
12 V	Oscillating 0-12 V	No effect on engine power, rely on alternate system (oscillating system)	Maintenance action required	Flight is possible to your destination at your own discretion.
12 V	12 V	Loss of engine power possible (LOPC up to IFSD), system relies on default values and tries to maintain operation	Maintenance action required Flight not permissible	Flight is possible to your destination at your own discretion.

*) Pilot action depends on installation relevant situation (SEP vs. MEP, operational conditions, additional installation provisions, etc.) and can not be determined at the engine manufacturing level and therefore must be established at the aircraft manufacturer's level.
**) HIC A: Voltage between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (Warning Indicator A)
**) HIC B: Voltage between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (Warning Indicator B)

NOTICE
Reduce engine power setting to the minimum necessary and carry out precautionary landing.

NOTE

An oscillating system indicates limited capability from the system (e.g. set value determination, diagnostics, etc.) however it still continues to be able to provide full engine power.

NOTE

If a warning indicator remains on permanently, it indicates that an error with higher severity (Failure) has been detected by the internal testing procedures of the ECU.
In this case, the ECU will continue to operate in an alternative control mode, which will transfer the control of ignition and injection to the error- free Lane. Regular operation as well as alternative control modes of the ECU are able to represent the full engine power. Differences arise only in the efficiency of the engine.
If limitations were exceeded, warning lamps may be reset by restart or lane check.

915 i TYPE C24

Caution Lamps

On the engine Type C24 AC-DC Converter Version, three caution lamps are implemented in the system:

- Caution lamp Output 14 V (EMS)
  The Caution lamp indicates the status of the Output 14 V (EMS) on the AC-DC converter which get supplied by Generator 2. The Output 14 V (EMS) lamp may be **ON** during engine start, until the voltage is bigger then >11.9 V. As long as Voltage stay within 11.9 V and 14.46 V the lamp remains **OFF**. In the unlikely event that the voltage is not longer within this range the lamp will come **ON**. If voltage will get back into normal operating range the Output 14 V (EMS) will go **OFF** again. No effect on engine power, rely on alternate power supply system. If Output 14 V (EMS) show up on ground a Maintenance action is required, if the lamp show up in flight - Check EMS Warning lamps and the Caution lamp Output 28 V (AC), also the Current and Voltage of the Battery. Flight is possible to your destination at your own discretion.
- Caution Lamp Output 28 V (AC)
  If engine is not running or rpm is below generator switching rpm the Output 28 V (AC) lamp indicates that the power supply of 28 V side is not active. In this state the charging of the battery is not given. If voltage will get back into normal operating range the Output 28 V (AC) will go **OFF** again. If Output 28 V (AC) show up on ground a Maintenance action is required, if the lamp show up in flight - Check EMS Warning lamps and the Caution lamp Output 14 V (EMS), also the

Current and Voltage of the Battery. Flight is possible to your destination at your own discretion.

- Caution Lamp Start / Backup Battery Switch
  If Start Power Switch or Backup Battery Switch or both are activated the this Caution lamp will be **ON**. So please check with Aircraft manufacturer on witch condition the switches need to be activated during flight. If lamp show up without having activated Start power or Backup Battery Switch a Maintenance action is required.

3.1.1) Failure of internal generators

915 i TYPE A and TYPE C24

Failure of Generator 1

If during normal operation (Generator 1 is supplying the EMS) Generator 1 fails, the ECU automatically switches over to supply the EMS by using Generator 2.
If the engine is supplied by Generator 2 the engine is able to deliver full performance. No performance drop can be recognized while the engine switches the supply from Generator 1 to Generator 2.

NOTICE

If Generator 2 is used for supplying the EMS, the airframe will not be supplied with electrical power by an internal generator.

This failure condition will be detected by the EMS. Therefore see section “Failures detected by the EMS” for appropriate action.

Failure of Generator 2

If during normal operation (Generator 1 is supplying the EMS) Generator 2 fails, the ECU is not able to detect this condition.

915 i TYPE C24

Caution lamp 14 V and 28 V Output **ON**

NOTICE

If Generator 2 fails the Airframe will not be supplied with electrical power by an internal generator

Aircraft Manufacturer is responsible for defining a procedure for this failure condition.

Failure of both Generators

A failure of both Generators (Generator 1/Generator 2) will result in engine stoppage unless the EMS is powered by an external power source (12 V voltage drop between X3 Terminal 1 and Aircraft ground).

915 i TYPE C24

Battery Backup Switch is activated engine is running – then Warning lamp flashing, Caution lamp 28 V **ON**, 14 V **OFF** and Caution Lamp Start/Backup Battery Switch **ON**.

Aircraft Manufacturer is responsible for defining a procedure for this failure condition.

3.1.2) Failure of AC-DC Converter

915 Type C24

Failure of the Output 14 V (EMS) side

If Caution lamp Output 14 V (EMS) is **ON** during normal operation (Generator 1 is supplying the EMS) – it indicates a problem on the AC-DC converter 14 V (EMS) output side. As long as the Caution lamp Output 28 V (AC) is not **ON**, the problem is related to the AC-DC converter output, not to Generator 2.

NOTE

The aux fuel pump is supplied from the Generator 2/AC-DC converter side.

Failure of the Output 28 V (AC) side

If Caution lamp Output 28 V (AC) is **ON** during normal operation >3000 rpm (Generator 1 is supplying the EMS) – it indicates no power to the airframe on the AC-DC converter 28 V (AC) output side. As long as the Caution lamp Output 28 V (AC) is not **ON**, the problem is related to the AC-DC converter output, not to Generator 2.

NOTICE

If Caution lamp 28 V (AC) is ON the airframe will not be supplied with electrical power by the AC-DC converter 28 V output side.

As long as the Caution lamp Output 14 V (EMS) is not **ON**, the problem is related to heat transfer (high temperature), over current, over voltage on the 28 V output (AC) side.

NOTE

The aux fuel pump is supplied from the Generator 2/AC-DC converter side.

3.1.3) Engine not responding to throttle position commands

Possible breakage/blockage of throttle valve actuation/linkage. In case of a breakage of the throttle valve actuation the valve will jump to wide open position.

⚠ WARNING

Non-compliance can result in serious injuries or death!
Never attempt starting the engine with a disconnected, broken or blocked throttle valve actuation. This may lead to excessive engine speeds.

For shutting off the engine proceed according to Engine shut-OFF procedure (see Chapter 4.6). As part of an abnormal operation, it might be required to shut down the engine at higher engine speeds.

3.1.4) Engine on fire or fire in the engine compartment

NOTICE

Carry out emergency procedures as prescribed in the flight manual of the aircraft manufacturer.

- After landing locate the cause of fire and resolve the error before next flight by qualified staff (authorized by the Aviation Authorities)
- An entry in the logbook must be made
- A maintenance inspection should be carried out

Aircraft Manufacturer is responsible for defining a procedure for this failure condition. Depending on the installation shutting off the fuel supply first might be required.
Event has to be entered by the pilot into engine book.

Step	Step Description	Procedure
1	Deactivate ECU	HIC A: Disconnect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane A HIC B: Disconnect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane B Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Lane select Switch A: OFF Lane select Switch B: OFF

Loss of Display CAN Information

If Display CAN Bus A or B fail, all information is still available on the working CAN Bus. In case Display CAN A and B fail and no engine parameters are available, land the aircraft. Aircraft Manufacturer is responsible for defining a procedure for both failure conditions.

Loss of Power

Aircraft Manufacturer is responsible for defining a procedure for this failure condition.

3.2) Failures during engine start

3.2.1) Engine does not start

Insufficient supply from electrical power source.

- Ensure that Engine starter and EMS system is supplied by an external power source until engine reaches idle speed

Insufficient fuel supply.

- Ensure that Engine is supplied with fuel in appropriate quality

Starting at low oil temperature.

- Use high quality oil without friction modifier see Chapter 2.4).

3.3) Re-Start during flight

If the propeller continues to rotate during flight by windmilling, but the speed is not sufficient to start the engine, the electric starter can be used. It is not required to wait until the propeller stops rotating.

3.4) The sprag clutch fails to decouple from the starter

NOTICE
Shut down engine! Risk of fire and danger of the electric starter overheating.

Follow engine shut OFF procedure (see Chapter 4.6).

3.5) Exceedance of operational limits

NOTICE
When exceeding an operating limit, adapt engine power setting.

Any exceeding of an operating limit has to be entered by the pilot into engine logbook, stating duration of this omit condition. Unscheduled maintenance action may be required (see Maintenance Manual Line (MML)).

Aircraft Manufacturer is responsible for defining an abnormal operation procedure for each operating limit.

3.6) Fuel pressure outside range

NOTICE
Reduce engine power setting to the minimum necessary and carry out precautionary landing.

Exceeding fuel pressure

- If the pressure is too high, switch the AUX- pump OFF. If this has no effect then limited flight operation with reduced power is possible.
- If the pressure is too low, switch the AUX-pump ON. If this has no effect then limited flight operation with reduced power is possible.
- A maintenance inspection should be carried out.

4) Standard operation

Topics in this chapter

Introduction

To warrant reliability and efficiency of the engine, meet and carefully observe all the operating and maintenance instructions.
The following description of procedures depends on the respective type of installation in the aircraft and shall therefore only be seen functionally.

NOTE

The control elements mentioned in this chapter are only symbolic and should support the understanding of the procedures. The execution of control elements is in the responsibility of the aircraft manufacturer.

4.1) Daily checks

Safety

To warrant reliability and efficiency of the engine, meet and carefully observe all the operating and maintenance instructions.

⚠ WARNING

Risk of burns and scalds! Hot engine parts!
Conduct checks on cold engine only!

⚠ WARNING

Non-compliance can result in serious injuries or death!
When performing checks which do not require ignition make sure that the ECU is turned off and the aircraft is secured to prevent unwanted engine starts.

NOTICE

If established abnormalities (e.g. excessive resistance of the engine, noise etc.) inspection in accordance with the relevant Maintenance Manual is necessary. Do not release the engine into service before rectification.

Coolant level

NOTICE

Operating media must be observed.
Inappropriate coolant quantity can lead to serious engine damage.

The specifications given in Chapter 2.2 must be adhered to when refilling coolant.

Step	Procedure
1	Verify coolant level in the **expansion tank**, replenish as required up to top. The max. coolant level must be flush with the bottom of the filler neck.
2	Verify coolant level in the **overflow bottle**, replenish as required. The coolant level must be between max. and min. mark.

ENVIRONMENTAL NOTE

Protect the environment!
Do not harm the environment by spilling coolant. Dispose coolant in an environmentally friendly manner.

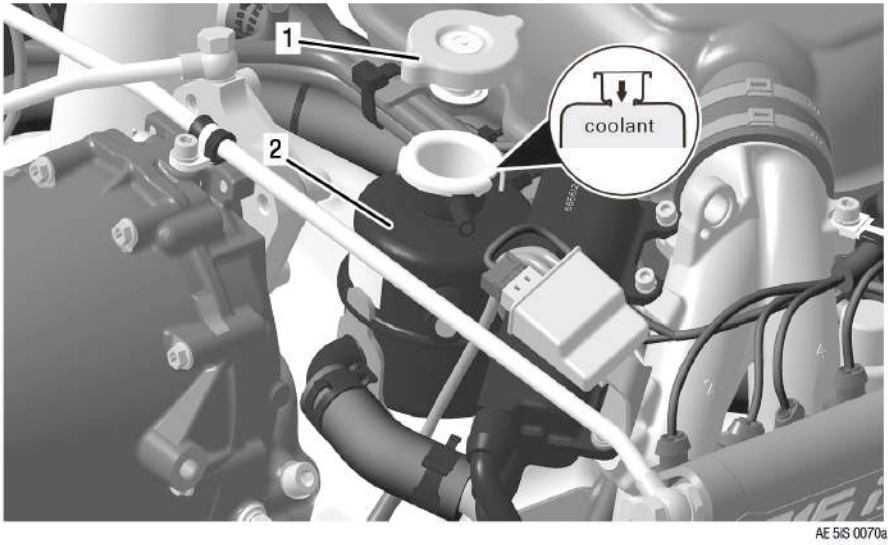

Figure 1: Expansion tank

1 Radiator cap *2 Expansion tank*

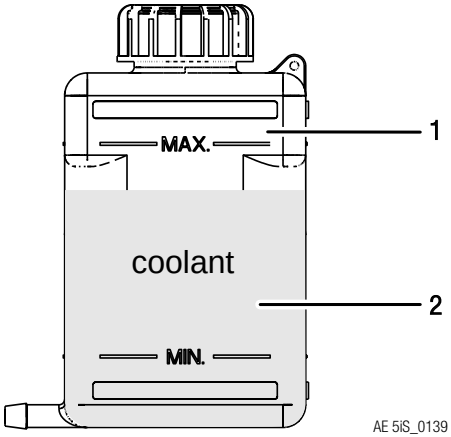

Figure 2: Overflow bottle

1 Overflow bottle *2 Coolant*

Mech./electronic components

Check of mechanical/electronic components.

Step	Procedure
1	Turn propeller slowly by hand in direction of engine rotation several times and observe engine for odd noises or excessive resistance and normal compression.
2	Verify free movement of throttle valve and the complete range.
3	Inspect for damages, leakage and general condition of exhaust system and turbocharger.
4	Visual inspection for mechanical and thermal damages of sensor, actuators and the wiring harness.
5	Visual inspection for mechanical and thermal damages of pressure control valve, fusebox and ECU.

4.2) Pre-flight checks

Safety

⚠ WARNING

Risk of burns and scalds! Hot engine parts!
Conduct checks on cold engine only!

Operating media

Step	Procedure
1	Check for any oil-, coolant- and fuel leaks. If leaks are evident, rectify and repair them before next flight.

Oil level

NOTICE

Operating media must be observed.
Inappropriate oil quantity can lead to serious engine damage.

The specifications given in Chapter 2.4 must be adhered to when refilling oil.

Step	Procedure
1	Prior to oil level check, turn the propeller several times by hand in direction of engine rotation to pump all the oil from the engine to the oil tank.
2	This process is completed when air flows back to the oil tank. This air flow can be perceived as a murmur (gurgling) when the oil tank cover of the oil tank is removed.
3	Pull out the oil dipstick.
4	The oil level in the oil tank should be between the two marks (max./min.) on the oil dipstick, but must never fall below the min. mark. During standard engine operation, the oil level should be mid-way between the max. and min. marks, as at higher oil level (over servicing), oil will escape via the venting passage. Difference between max.- and min.- mark = 0.60 l (1.268 liq pt).
5	Replenish oil as required.

Step	Procedure
6	Check oil level - Marks on the oil dipstick.
7	Fit the oil dipstick and tighten the oil tank cover by hand.

ENVIRONMENTAL NOTE

Protect the environment.
Do not harm the environment by spilling oil. Dispose of oil in an environmentally friendly manner.

4.3) Engine start

⚠ WARNING

Non-compliance can result in serious injuries or death!
Do not start the engine if any person is near the engine.

Engine start

Maintenance CAN Bus (A/B) must not be used during flight. B. U.D.S. aircraft USB-to-CAN converter must be disconnected.

Step	Step Description	Procedure
1	Engine Pre-heating (if necessary)	–
	Example (Symbolic)	–
2	Activate Fuel pumps	HIC A: A connection between Terminal 3 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal E and F, will power Fuel pump 1. HIC B: A connection between Terminal 3 and Terminal 11 at 915 i Type A, or at 915 i Type C24 AC-DC Converter Terminal X4.C and X4.D, will power Fuel pump 2.
	Example (Symbolic)	Fuel pump 1: **ON** Fuel pump 2: **ON**

NOTICE

Only switch on one fuel pump when starting the engine. Switching on both fuel pumps can lead to a bad start behavior.

Step	Step Description	Procedure
3	Activate ECU	HIC A: A connection between Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, will power ECU Lane A. HIC B: A connection between Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, will power ECU Lane B.
	Example (Symbolic)	Lane select Switch A: **ON** Lane select Switch B: **ON**
4	Temporarily supply engine with external power supply	X3: A connection between Terminal 2 and Terminal 3 at 915 i Type A, or at 915 i Type C24 AC-DC Converter Terminal X2.C, and between airframe ground and EMS ground will activate Start Power. The temporary power supply must be maintained during steps 4, 5, 6.
	Example (Symbolic)	Start Power Switch: **HOLD**
5	Check if Warning Indicators illuminate and extinguish after around 3 seconds.	HIC A: 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D for 3 seconds. HIC B: 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D for 3 seconds.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check
6	Set Throttle Valve	Set linearized throttle position according to diagram section 3.3 Fig. Throttle position.
	Example (Symbolic)	Set Throttle.

Step	Step Description	Procedure
7	Check Caution lamp state 915 i Type C24	AC-DC converter: 24 V provided to Terminal X2.C Caution Lamp: 14 V Output (EMS): **OFF** Caution Lamp: 28 V Output (AC): **ON** Caution Lamp: Start/Backup Power: **ON**
	Example (Symbolic)	Start Power Switch: **HOLD**

NOTICE

Activate starter for maximum of 10 consecutive seconds only, followed by a cooldown period of 2 minutes.

Step	Step Description	Procedure
8	Start Engine	HIC B: A connection between Terminal 4 and Terminal 12 at 915 i Type A, or at 915 i Type C24 Terminal G and H, actuates the starter. The connection must persist until the engine speed exceeds 1500 rpm.
	Example (Symbolic)	Start Power Switch: **HOLD**
9	Reduce Throttle Valve as required	Set linearized throttle position so that the engine runs on idle.
	Example (Symbolic)	Reduce Throttle.

NOTICE

Increasing engine speed is only permitted at steady oil pressure readings above 3 bar (43.5 psi).

Step	Step Description	Procedure
10	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected perform Lane and Ignition Check. See abnormal operation if the voltage drop still persists. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected perform a Lane and Ignition Check. See abnormal operation if the voltage drop still persists. Display CAN A/B: Check if oil pressure has risen within 10 seconds after engine start and monitor oil pressure.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
11	Check state Caution lamps 915 i Type C24	”Procedure” AC-DC converter: 24 V drop to 0 Terminal X2.C. Caution Lamp: 14 V Output (EMS): **OFF** Caution Lamp. 28 V Output (AC): **ON** Caution Lamp: Start/Backup Power: **OFF**
	Example (Symbolic)	Start Power Switch: **OFF** Backup Battery Switch: **OFF** Engine running: >1700 rpm<2400 rpm
12	Generator Switching	Increase engine speed above 2400 rpm and hold for 8 seconds.
	Example (Symbolic)	Increase Throttle Position

Step	Step Description	Procedure
13	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
14	Check state Caution lamps 915 i Type C24	”Procedure” AC-DC converter: 24 V drop to 0 Terminal X2.C. Caution Lamp: 14 V Output (EMS): **OFF** Caution Lamp: 28 V Output (AC): **ON**[1)] Caution Lamp: Start/Backup Power: **OFF**
	Example (Symbolic)	Start Power Switch: **OFF** Backup Battery Switch: **OFF** Engine running: Step 11 successful

[1)]In case of higher rpm >= 3000 rpm the Caution Lamp: 28 V Output (AC) is **OFF**.

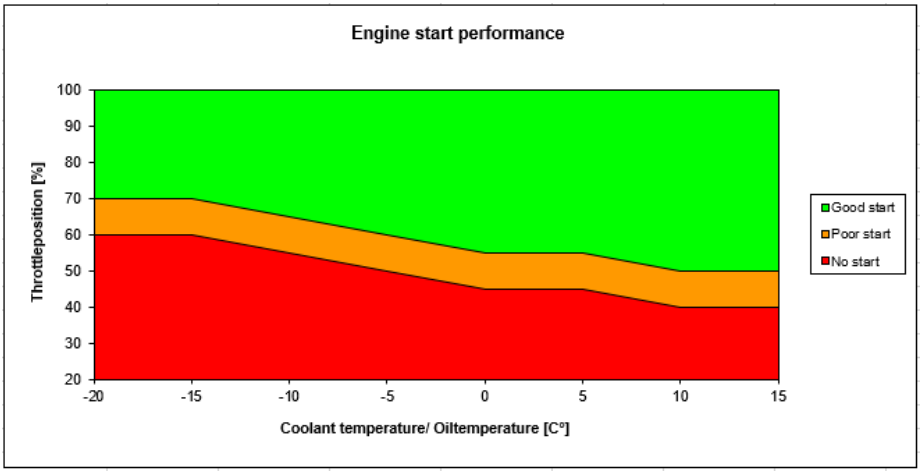

Figure 3: Throttle position

4.4) After engine start

⚠ WARNING

Non-compliance can result in serious injuries or death!
Do not start the engine if any person is near the engine.

Warming up period

Step	Step Description	Procedure
1	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 to 4.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
2	Set Throttle Valve as required.	Set linearized throttle position in a way that the engine runs at approx. 2000 rpm for approx. 2 minutes.
	Example (Symbolic)	Set Throttle
3	Set Throttle Valve as required.	Set linearized throttle position in a way that the engine runs at approx. 2500 rpm until oil temperature reaches 50 °C (120 ° F).
	Example (Symbolic)	Set Throttle
4	Reduce Throttle Valve as required.	Set linearized throttle position so that the engine runs at idle.
	Example (Symbolic)	Reduce Throttle

4.5) Engine run-up

Ground test

NOTICE

After a full-load ground test allow a cooling run at idle speed to prevent vapour formation in the cylinder head.

Step	Step Description	Procedure
1	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 to 3.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
2	Set Full Throttle	Set linearized throttle position to WOT and check if maximum performance can be reached.
	Example (Symbolic)	Set Throttle.
3	Set Throttle Valve as required	Set linearized throttle position to reach an engine speed of 2500 rpm and continue with Lane check 2500 rpm and Ignition check.
	Example (Symbolic)	Set Throttle.

Lane and Ignition check

During the Lane and Ignition check Engine Speed must always show plausible values no matter if one or both lanes are active. Otherwise maintenance is required.

Step	Step Description	Procedure
1	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 to 11.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
2	Set Throttle Valve as required.	Set linearized throttle position so that engine speed is approx 2500 rpm.
	Example (Symbolic)	Set Throttle
3	Deactivate ECU Lane A	HIC A: Disconnect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane A.
	Example (Symbolic)	Lane select Switch A: **OFF**
4	Observe engine speed	Display CAN A/B; Check engine speed.
	Example (Symbolic)	Pilot Display: Check

NOTICE

Engine speed should not drop/increase more than 250 rpm. If the fuel pressure is not within the limits, the cause must be determined. The engine must not be put into service until the problem is rectified.

Step	Step Description	Procedure
5	Activate ECU Lane A	HIC A: Connect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to power ECU Lane A.
	Example (Symbolic)	Lane select Switch A: **ON**
6	Await Warning Indicator A to extinguish and note how long this takes.	HIC A: 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D for 3 seconds.
	NOTE *After the voltage drop between Terminal 2 and Terminal 8 changes back to 0 V wait approx. 3 seconds until continuing with the next step.*	
	Example (Symbolic)	Warning Lamp A: Check
7	Deactivate ECU Lane B	HIC B: Disconnect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane B.
	Example (Symbolic)	Lane select Switch B: **OFF**
8	Observe engine speed	Display CAN A/B: Check engine speed.
	Example (Symbolic)	Pilot Display: Check

NOTICE

Engine speed should not drop/increase more than 250 rpm. If the fuel pressure is not within the limits, the cause must be determined. The engine must not be put into service until the problem is rectified.

Step	Step Description	Procedure
9	Activate ECU Lane B	HIC B: Connect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to power ECU Lane B.
	Example (Symbolic)	Lane select Switch B: **ON**

Step	Step Description	Procedure
10	Await Warning Indicator B to extinguish and note how long this takes.	HIC A: 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i C24 Terminal A and D for 3 seconds.
	NOTE *After the voltage drop between Terminal 2 and Terminal 10 changes back to 0 V wait approx. 3 seconds until continuing with the next step.*	
	Example (Symbolic)	Set Throttle
11	Reduce Throttle Valve as required.	Set linearized throttle position to reach an engine speed of 2000 rpm and continue with wastegate and PCV check.
	Example (Symbolic)	Set Throttle

NOTE

Lane A and Lane B have different sensor inputs. During Lane and Ignition check, some sensor values are not displayed, depending on the activation of the Lanes

Following sensor values are not available if Lane A is turned OFF and Lane B is activated:

- Coolant temperature
- Exhaust gas temperatures from cyl. 1-4
- Ambient temperature
- Throttle lever position

Following sensor values are not available if Lane B is turned OFF and Lane A is activated:

- Oil temperature
- Oil pressure

Wastegate and PCV check

Manifold Air Temperature (MAT) must be <65 °C during the check procedure. Otherwise the ECU internal check of the Pressure Control Valve and Wastegate will not be executed.

NOTE

If possible the PCV Check and the Lane and Ignition Check might be combined in one check.

Step	Step Description	Procedure
1	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 –13.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
2	Set Throttle valve to WOT	Set linearized throttle position to 100%. Governor must be set in a way that engine speed >4700 rpm.
	Example (Symbolic)	Set Throttle
3	Deactivate ECU Lane A	HIC A: Disconnect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane A
	Example (Symbolic)	Lane Select Switch A: **OFF**
4	Wait > 15 seconds	–
	Example (Symbolic)	Wait

Step	Step Description	Procedure
5	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
6	Activate ECU Lane A	HIC A: Connect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to power ECU Lane A
	Example (Symbolic)	Lane Select Switch A: **ON**
7	Await Warning Indicator A to extinguish and note how long this takes.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D for 3 second.
	NOTE *After the voltage drop between Terminal 2 and Terminal 8 changes back to 0 V wait approx 3 seconds until continuing with the next step.*	
	Example (Symbolic)	Warning Lamp A: Check
8	Deactivate ECU Lane B	HIC B: Disconnect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane B.
	Example (Symbolic)	Lane Select Switch B: OFF
9	Wait > 15 seconds	–
	Example (Symbolic)	Wait

Step	Step Description	Procedure
10	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut off engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut off engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
11	Activate ECU Lane B	HIC B: Connect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to power ECU Lane B.
	Example (Symbolic)	Lane select Switch B: **ON**
12	Await Warning Indicator B to extinguish and note how long this takes.	HIC A: 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D for 3 seconds.
	NOTE *After the voltage drop between Terminal 2 and terminal 10 changes back to 0 V wait approx 3 seconds until continuing with the next step.*	
	Example (Symbolic)	Warning Lamp B: Check
13	Reduce Throttle Valve as required	Set linearized throttle position to reach an engine speed of 2000 rpm and continue with Fuel pump check
	Example (Symbolic)	Set Throttle

Fuel pump check

Verify that both fuel pumps are working and that no loss of power or irregular running occurs during deactivation of one fuel pump. The limits for fuel pressure must not be exceeded.

Step	Step Description	Procedure
1	Check engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 – 8.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits.
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check

Step	Step Description	Procedure
2	Set Throttle valve as required	Set linearized throttle position so that the engine speed is approx 2000 rpm.
	Example (Symbolic)	Set Throttle
3	Deactivate Fuel pump 1	HIC A: Disconnect Terminal 3 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal E and F, to deactivate Fuel pump 1
	Example (Symbolic)	Fuel pump 1: **OFF**
4	Observe Fuel pressure	
	Example (Symbolic)	Pilot Display: Check

NOTICE

If the fuel pressure is not within the limits, the cause must be determined. The engine must not be put into service until the problem is rectified.

Step	Step Description	Procedure
5	Activate Fuel pump 1	HIC A: Connect Terminal 3 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal E and F, to activate Fuel pump 1
	Example (Symbolic)	Fuel pump 1: **ON**
6	Deactivate Fuel pump 2	HIC A: Disconnect Terminal 3 and Terminal 11 at 915 i Type A, or at 915 i Type C24 AC-DC Converter Terminal X4.C and X4.D, to deactivate Fuel pump 2.
	Example (Symbolic)	Fuel pump 2: **OFF**
7	Observe Fuel pressure	
	Example (Symbolic)	Pilot Display: Check

NOTICE

If the fuel pressure is not within the limits, the cause must be determined. The engine must not be put into service until the problem is rectified.

Step	Step Description	Procedure
8	Activate Fuel pump 2	HIC A: Connect Terminal 3 and Terminal 11 at 915 i Type A, or at 915 i Type C24 AC-DC Converter Terminal X4.C and X4.D, to activate Fuel pump 2.
	Example (Symbolic)	Fuel pump 2: **ON**

NOTE

Cycling the propeller governor puts a relatively high load on the engine. Unnecessary cycling should be avoided.

4.6) Engine shut-off

Step	Step Description	Procedure
1	Check the engine instruments (Warning Indicators and Operational Limits) and ensure compliance with the operating limits while step 2 to 5.	HIC A: If a 12 V voltage drop between Terminal 2 and Terminal 8 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. HIC B: If a 12 V voltage drop between Terminal 2 and Terminal 10 at 915 i Type A, or at 915 i Type C24 Terminal A and D (permanent or oscillating) is detected, shut OFF engine and perform troubleshooting. Display CAN A/B: Check and ensure compliance with operational limits
	Example (Symbolic)	Warning Lamp A: Check Warning Lamp B: Check Pilot Display: Check
2	Reduce Throttle valve as required.	Set linearized throttle position so that the engine runs on idle.
	Example (Symbolic)	Reduce Throttle.
3	Await cooling down phase.	Normally the cooling down of the engine during descending and taxiing will be sufficient to allow the engine to be shut off as soon as the aircraft is stopped. At increased operating temperatures make an engine cooling run of at least minimum 2 minutes.
4	Deactivate ECU	HIC A: Disconnect Terminal 1 and Terminal 7 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane A. HIC B: Disconnect Terminal 1 and Terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal N and P, to turn OFF ECU Lane B.
	Example (Symbolic)	Lane select Switch A: **OFF** Lane select Switch B: **OFF**

NOTE

The ECU needs to be deactivated before the fuel pumps. Shutting off the engine by deactivating the fuel supply may result in fault and failure entries in the ECU. Shutting down the engine by shutting off the fuel pumps is only allowed in emergency situations.

Step	Step Description	Procedure
5	Deactivate Fuel pumps	HIC A: Disconnect Terminal 3 and terminal 9 at 915 i Type A, or at 915 i Type C24 Terminal E and F, to turn OFF Fuel pump 1 HIC B: Disconnect Terminal 3 and terminal 11 at 915 i Type A, or at 915 i Type C24 AC-DC Converter Terminal X4.C and X4.D, turn OFF Fuel pump 2
	Example (Symbolic)	Fuel pump 1: **OFF** Fuel pump 2: **OFF**

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5) Performance and Fuel consumption

Topics in this chapter

5.1) Performance data and fuel consumption

Information on performance and fuel consumption are summarized in the ROTAX® Performance and Fuel Consumption Model.
The Performance and Fuel consumption model for this engine is only available in the electronic version of this document (see Appendix) which can be downloaded on our website.
www.flyrotax.com/p/service/technical-documentation

Note that all information provided is model based and therefore subject to tolerances. This chapter summarizes the parameters and the constraints that need to be considered when working with this data.

The actual power and fuel consumption is highly dependant upon the installation, the compliance to predefined maintenance events, and the way the engine is operated. Those values need to be determined and provided by the aircraft manufacturer.

Ambient Conditions

Ambient conditions are given by the pressure in the ambient (p_ambient) and the temperature in the ambient (T_ambient).

Engine Conditions

Engine conditions are given by the engine speed (rpm) and throttle position (ECU_throttle_lin).

Critical Altitude

The engine was designed for a critical altitude up to 15000 ft.

5.2) Explanation of the parameters

Parameters	Explanation
Case Number [No Unit]	Sequential number
rpm [RPM]	Engine speed
p_ambient [bar]	Pressure at ambient depending on altitude and weather conditions. The pressure was calculated according to ISA conditions at altitude. ECU mapping was calculated with different altitudes from sea level to max operation altitude.
T_ambient [°C]	Temperature at ambient depending on altitude and weather conditions. The temperature was calculated according to ISA conditions and additional temperature variation -15 °C (5 °F), +15 °C (59 °F) and +30 °C (86 °F).
ECU_thottle_lin [%]	Linearized throttle position as given by the ECU.
Altitude [ft]	Altitude correlates to the ambient pressure (p_ambient) according ISA.

Parameters	Explanation
power_observ-ered [kW]	Power observed (certified) at the propeller shaft at given ambient conditions and engine conditions. This value means the LOWER LIMIT of the power tolerance range. Depending on circumstances the delivered power can be up to 6% higher but not lower than the power stated in the engine deck. The power stated in the engine deck accounts for: • The use of different certified fuels • Maximum allowed temperatures of oil and coolant • Losses due to gear and governor • Tolerances of the engine The observed power depends on: • MAT (T_Plenum): If the MAT exceeds the given limits power will decrease below stated values of the engine deck (not specified). For given ambient and engine conditions the MAT and the pressure in the plenum (p_Ple-num) can be used to evaluate the air path from the intake to the plenum. • Fuel: With MOGAS the delivered power will be up to 1.4 [kW] higher than the stated power in the engine deck. Therefore power loss due to the use of AVGAS is taken into account.
Fuel Flow [kg/h]	Fuel flow at given ambient/engine conditions, tolerance range at stationary flight conditions (5500-5800 rpm > 55 [kW, 4000-5000 rpm >35 [kW]): 10%. Flight range must be evaluated by the manufacturer in real plane application.
p_plenum [bar]	At given ambient/engine conditions the pressure and temperature in the plenum correlates to engine power. Deviation more than +20 mbar (at 5800 rpm/at sea level) indicates failure in the air supply to the engine.
T_plenum [K]	At given ambient/engine conditions the temperature and pressure in the plenum correlates to engine power. Deviation more than +5 °C (41 °F) (at 5800 rpm/at sea level) indicates failure in the air supply to the engine.

5.3) Performance graphs

NOTE

This is an extract, all date available in ROTAX® performance and fuel consumption model.

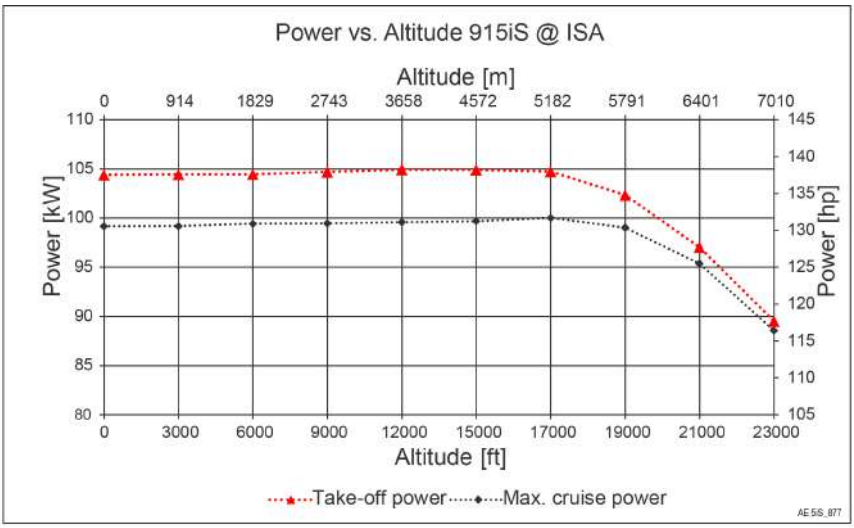

Figure 1: Power

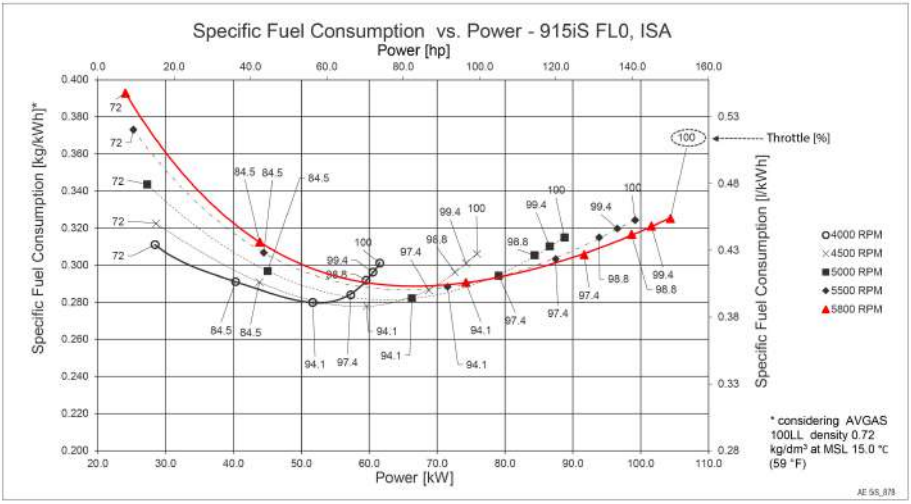

Figure 2: Specific Fuel Consumption

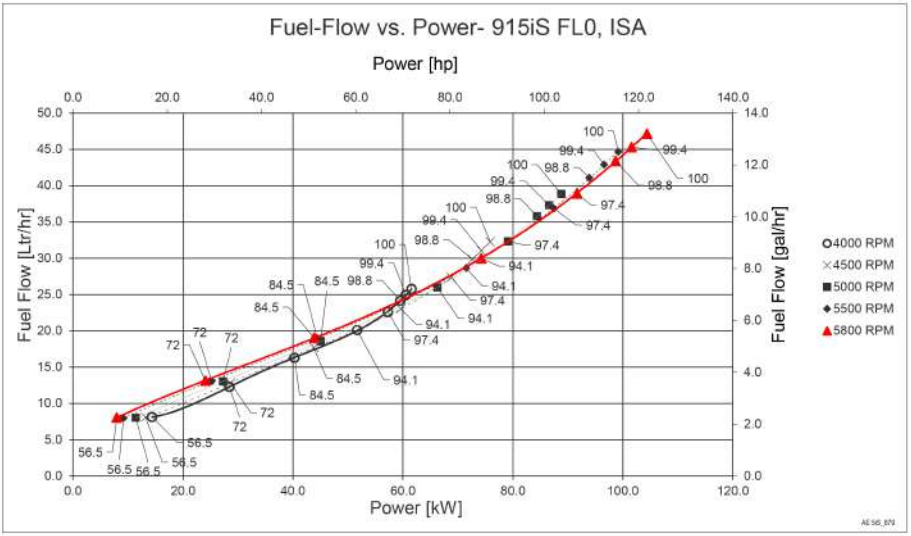

Figure 3: Fuel flow

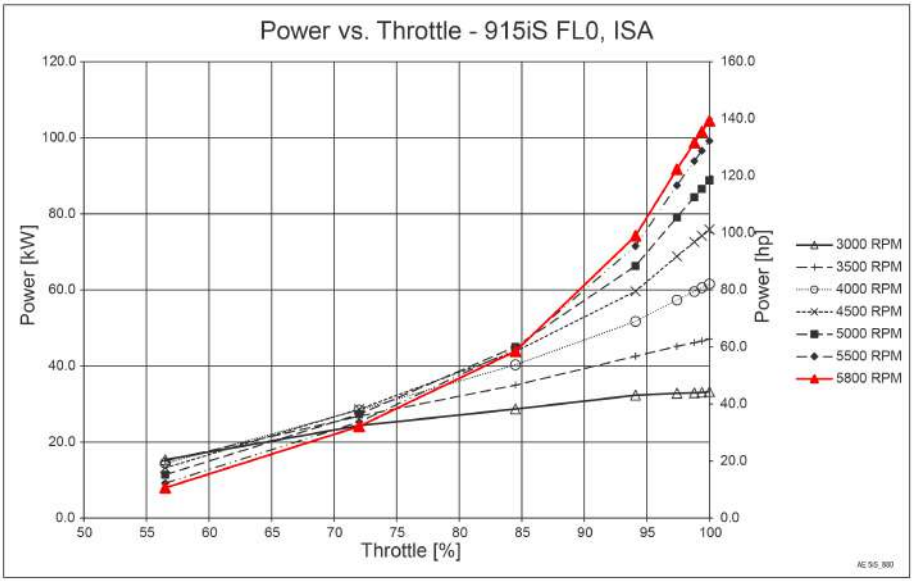

Figure 4: Power

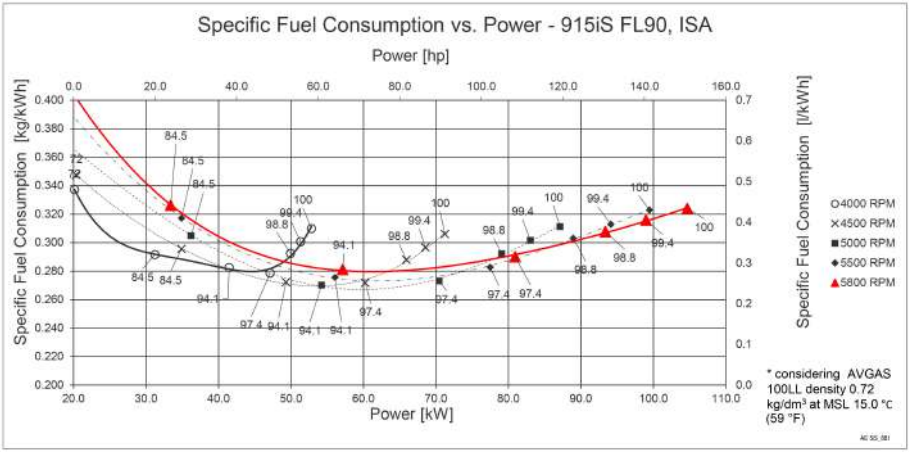

Figure 5: Specific Fuel Consumption

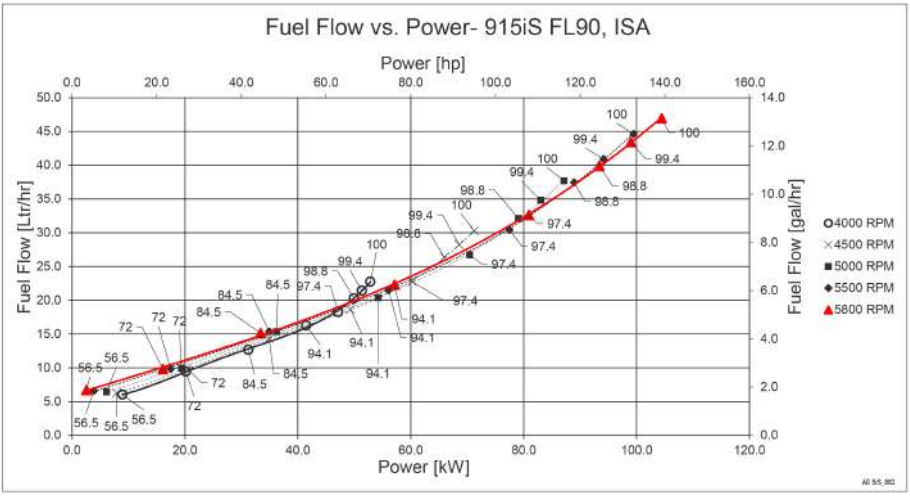

Figure 6: Fuel flow

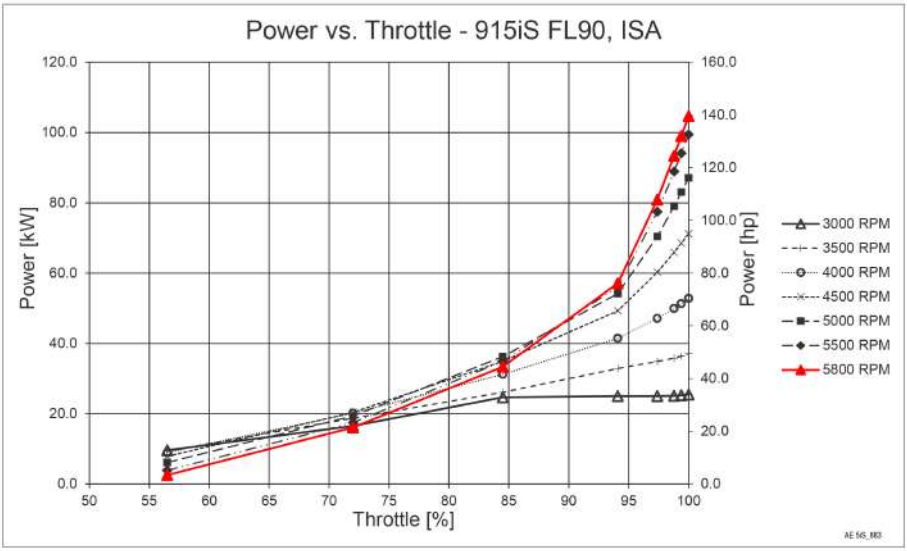

Figure 7: Power

ECO / POWER mode

Below approximate 97% throttle position the ECU will operate the engine in ECO mode. In ECO mode the injection and ignition system are controlled for best economy and best fuel efficiency.
Above 97% throttle position the ECU hands over to POWER mode. POWER mode uses fuel enrichment for maximum performance, especially for take-off and climb.

NOTE

ECO mode is only available with dual Lane operation. In single Lane operation only POWER mode is always active for best engine performance in case of emergency.

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7) System Description

Topics in this chapter

Introduction

This chapter of the Operators Manual (OM) contains information about the general engine specification as well as a description of cooling system, fuel system, lubrication system, electric system and the propeller gearbox.
The system description refers only to the engine and not to a specific application in a particular aircraft. The aircraft manufacturer's Operators Manual (OM) is therefore definitive in terms of the operation of the engine, as it contains all the aircraft specific instructions.

The design shown in this chapter does not represent a specified execution but should support the understanding of the system.

7.1) General specification

7.1.1) Basic specification

- 4-stroke-, 4 cylinder flat engine
- Liquid cooled cylinder heads
- Ram air cooled cylinders
- Dry sump forced lubrication
- Fully redundant electronic engine management system (EMS) for controlling fuel injection, ignition, etc.
- Propeller drive via gearbox with integrated mechanical shock absorber and overload clutch
- Oil tank
- Electric starter
- Turbocharged
- Electronic/pneumatic control of boost pressure

Optional

- Preparation for hydraulic governor for constant speed propeller (configuration 3 only)
- Cooling air baffle

7.1.2) Technical data

Description	Value
Bore	84 mm (3.31 in)
Stroke	61 mm (2.40 in)
Displacement	1352 cm^3 (82.5 in^3)
Compression ratio.	8.2:1

7.1.3) Engine components

915 i TYPE A

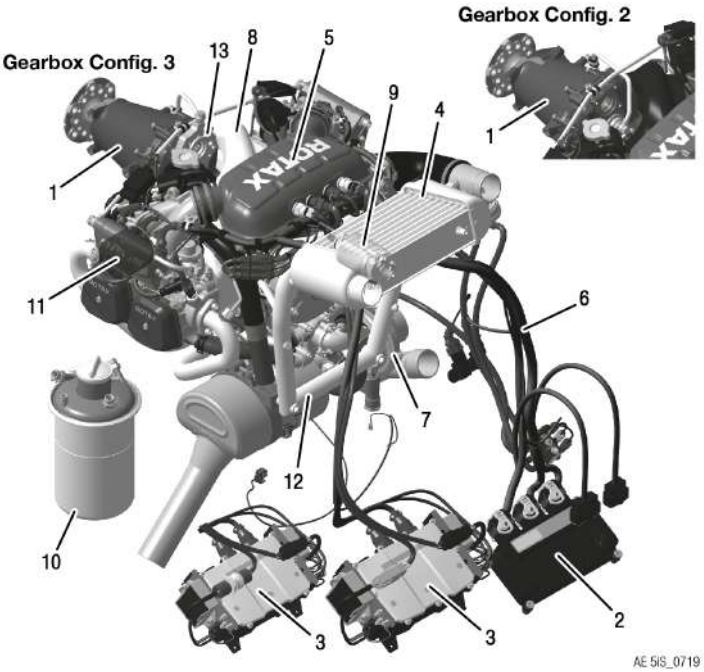

Figure 1: Engine components

1	*Propeller gearbox*	*2*	*ECU*	*3*	*Fusebox*
4	*Intercooler*	*5*	*Airbox*	*6*	*Wiring harness*
7	*Turbocharger*	*8*	*Air baffle*	*9*	*Electric starter*
10	*Oil tank*	*11*	*Oil filter*	*12*	*Suspen-sion frame*
13	*Flange for governor*				

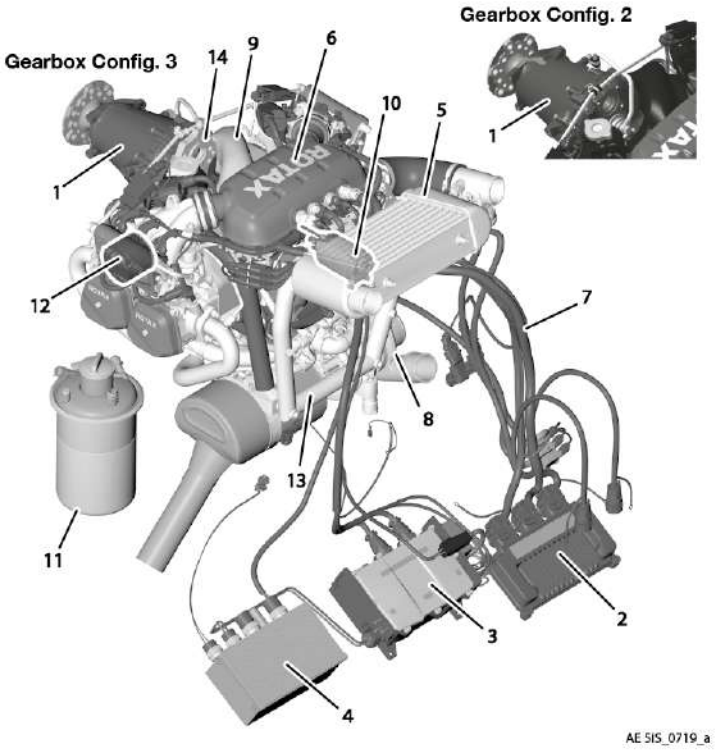

Figure 2: Engine components

1	*Propeller gearbox*	*2*	*ECU*	*3*	*Fusebox*
4	*24 V AC/DC converter*	*5*	*Inter-cooler*	*6*	*Airbox*
7	*Wiring harness*	*8*	*Turbo-charger*	*9*	*Air baffle*
10	*Electric starter*	*11*	*Oil tank*	*12*	*Oil filter*
13	*Suspension frame*	*14*	*Flange for gov-ernor*		

7.1.4) Cylinder arrangement

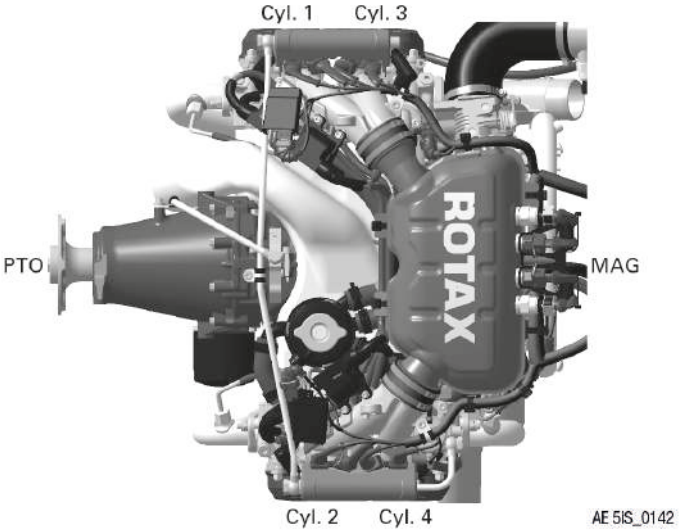

Figure 3: Cylinder arrangement

7.1.5) Direction of rotation

Direction of rotation on propeller shaft

Direction of rotation on propeller shaft: counter clockwise, viewed from the front.

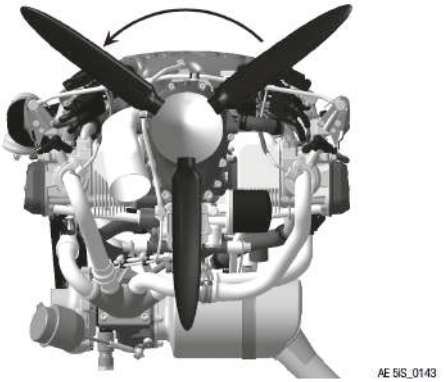

Figure 4: Normal direction of propeller rotation (engine)

7.2) Cooling system

System Overview

The cooling system of the engine is designed for liquid cooling of the cylinder heads and ram-air cooling of the cylinders. The cooling system of the cylinder heads is a closed circuit with an expansion tank.

Coolant flow

The coolant flow is forced by a water pump, driven from the camshaft, from the radiator to the cylinder heads. From the top of the cylinder heads the coolant passes on to the expansion tank. Since the standard location of the radiator is below engine level, the expansion tank located on the top of the engine allows for coolant expansion.

Expansion tank

From the expansion tank the coolant is sucked back to the water pump. In common installations the coolant passes a radiator in between. Additionally the expansion tank is closed by a pressure cap (with excess pressure valve and return valve). At temperature rise of the coolant the excess pressure valve opens and the coolant will escape via hose at atmospheric pressure. In common installation this hose is connected to an overflow bottle. This overflow bottle allows the coolant to be sucked back into the cooling circuit as the engine is cooling down.

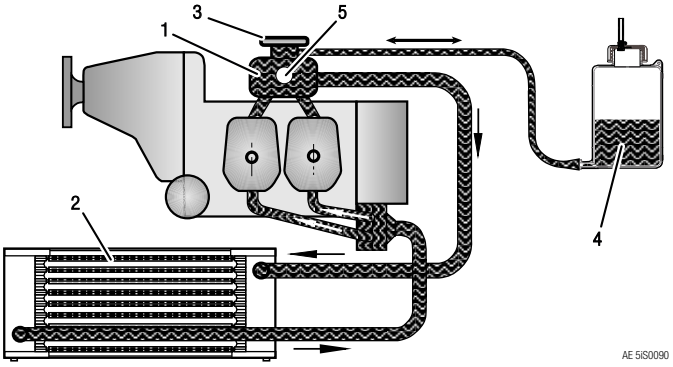

Figure 5: Cooling system (symbolic)

1 Expansion tank
2 Radiator
3 Pressure cap
4 Overflow bottle
5 Level glass

7.3) Fuel system

Fuel flow

The fuel is pumped in the fuel rail 1/3 feed line (2). From there it passes the both fuel rails (connected by the fuel line (4)), the fuel regulator and escapes thru fuel rail 2/4 outlet line (1). The supply of the injectors (5) is done by the fuel rails. The fuel pressure regulator (6) ensures that the pressure differential between the fuel injectors and the intake manifold remains constant. This allows injecting same quantity of fuel independent from the operational state.

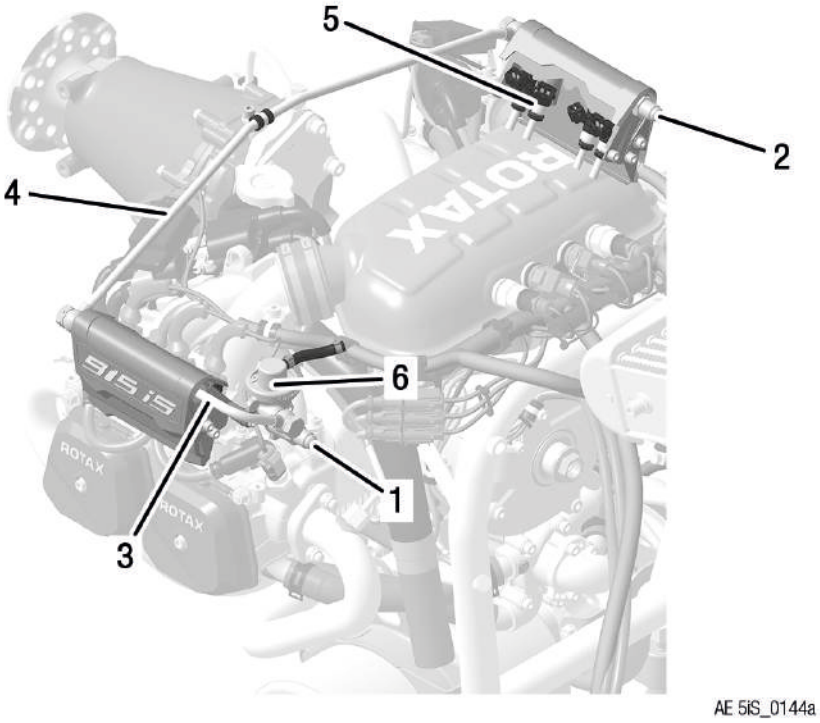

Figure 6: Fuel system

1	*Fuel rail 2/4 outlet line*	*2*	*Fuel rail 1/3 feed line*
3	*Fuel rail*	*4*	*Fuel line*
5	*Injection valves*	*6*	*Fuel pressure regulator*

7.4) Lubrication system

The engine is provided with a dry sump forced lubrication system with a main oil pump with integrated pressure regulator.

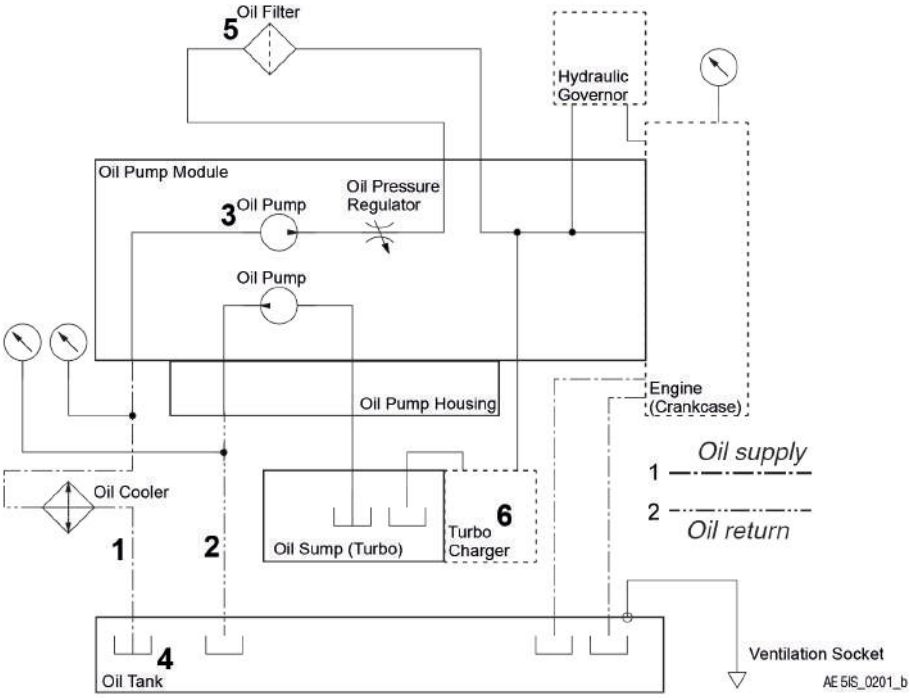

Figure 7: Lubrication system (symbolic)

Oil flow

The oil pump (driven by the camshaft) (3) sucks the motor oil from the oil tank (4) and forces it through the oil filter (5) and, depending on the engine installation, through the oil cooler, to the points of lubrication in the engine and the turbocharger (6).
The escaping oil emerging from the points of lubrication accumulates on the bottom of crankcase and is forced back to the oil tank by the piston blow-by gases.
The ventilation of the oil system is done by the vent socket on the oil tank

Turbocharger

The turbocharger is lubricated via a separate oil line (from the main oil pump).
The oil emerging from the turbocharger oil sump and is sucked back to the secondary oil pump and then pumped back to the main oil tank via an oil hose

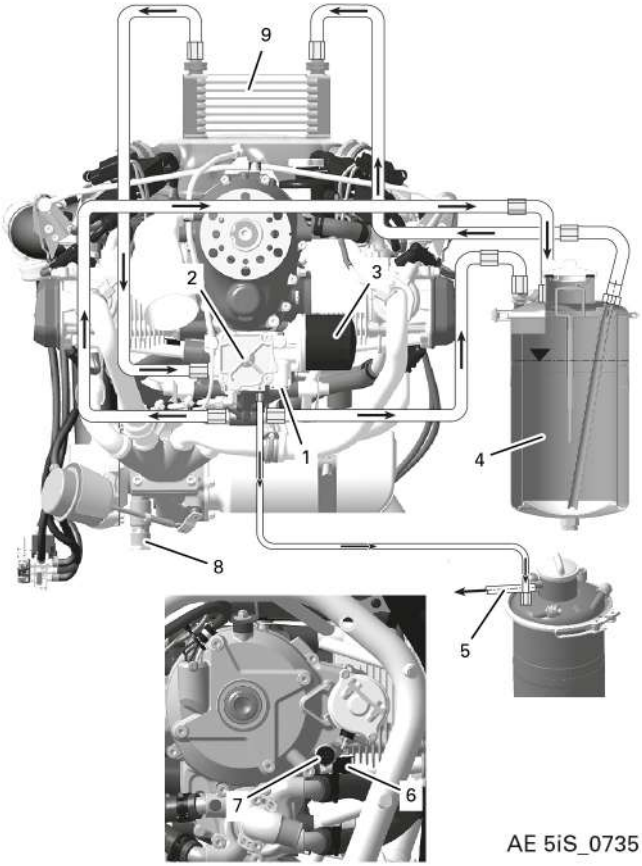

Figure 8: Lubrication system

1	*Plug screw (Oil pressure regulator)*	*2*	*Oil pump*
3	*Oil filter*	*4*	*Oil tank*
5	*Venting hose*	*6*	*Oil temperature sensor*
7	*Oil pressure sensor*	*8*	*Plug screw assy. (oil sump turbocharger)*
9	*Oil radiator*		

Oil temperature sensor

The oil temperature sensor for reading of the oil temperature is located on the crankcase, on the mag side of the engine.

Oil pressure sensor

The oil pressure sensor for reading of the oil pressure is located on the ignition housing.

7.5) Electric system

This System is responsible for supplying the Engine Management System (EMS) and the Airframe with electrical power. It consists of the Fusebox with Regulators and the Internal Generators.

915 i TYPE A

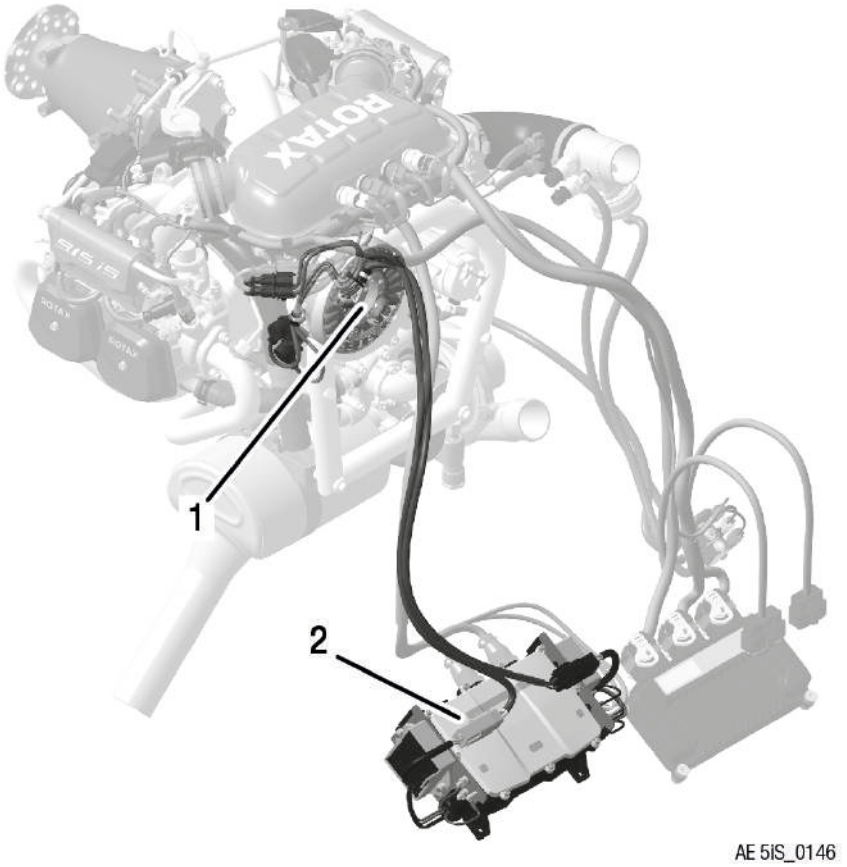

Figure 9: Internal power supply

1 Stator *2 Fusebox*

Generators 1 and 2

The two generators (Generator 1 and Generator 2) are mounted electrically isolated on one stator. Each generator is connected with a regulator mounted on the Fusebox. The Fusebox takes care of the energy management and allows selecting whether the EMS is supplied by an external power source (e.g. Battery) or one of the generators. The selection of which generator is powering the EMS depends on the engine status and can only be done by the Engine Control Unit (ECU).
During the engine start an external power source is needed to power the EMS. After the engine speed is high enough to power the EMS with the Generator 2, for running the engine the external power source is only required in emergency situations. If a defined engine speed threshold has been reached for a certain time Generator 1 takes over to supply the EMS. After this, Generator 2 can be used to supply the Airframe (e.g. instrumentation). In no operation state can Generator 1 be used to supply the Airframe.

Malfunction

In case of an malfunction of Generator 1 the internal electric supply system changes to fail-safe mode where Generator 2 again is in charge to supply the EMS. In fail-safe mode Generator 2 is not able to charge external power sources or supply the Airframe.

The EMS is not capable of supervising the power provided to the Airframe. If the EMS is powered by Generator 1 and Generator 2 fails; no indication is provided from engine side.

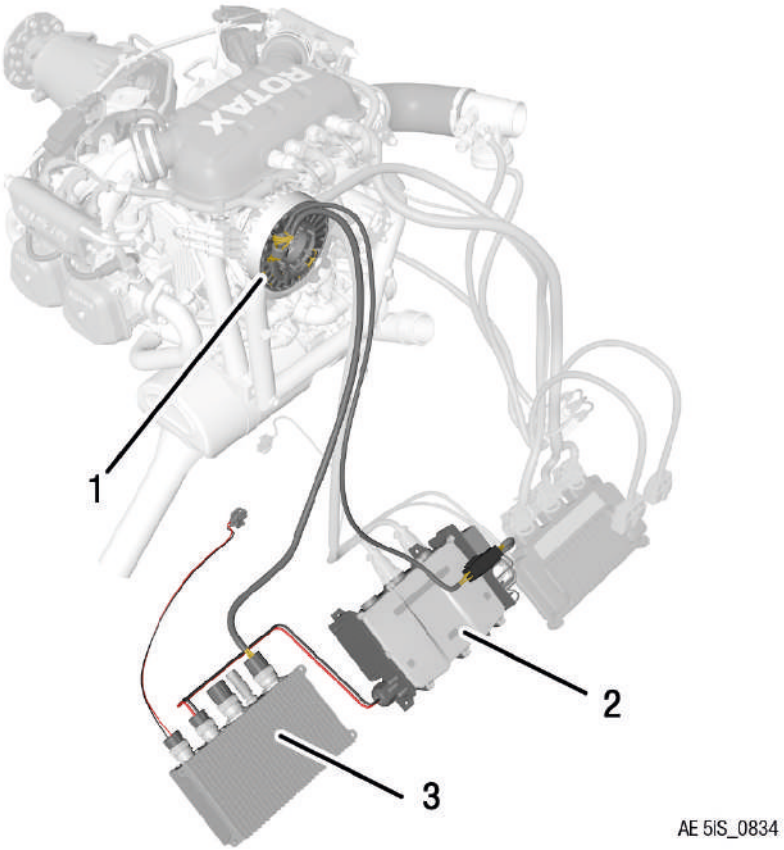

Figure 10: Internal power supply

1	*Stator*	*2*	*Fusebox*
3	*28 V AC-DC Converter assy.*		

Generators 1 and 2

The two generators (Generator 1 and Generator 2) are mounted electrically isolated on one stator. Generator A is connected with a regulator mounted on the Fusebox, Generator B is connected with the AC-DC converter. The Fusebox takes care of the energy management and allows selecting whether the EMS is supplied by an external power source (e.g. Battery) or one of the generators. The selection of which generator is powering the EMS depends on the engine status and can only be done by the Engine Control Unit (ECU).
During the engine start an external power source is needed to power the EMS. After the engine speed is high enough to power the EMS with the Generator 2, for running the engine the external power source is only required in emergency situations.

NOTE

The aux fuel pump is supplied from the Generator 2/AC-DC converter side. If a defined engine speed threshold has been reached for a certain time Generator 1 takes over to supply the EMS. Generator 2 can fully power the Airframe (e.g. instrumentation) when reaching 3000 rpm.
Generator 1 does not supply the Airframe in any operation mode.

Malfunction

In case of an malfunction of Generator 1 the internal electric supply system changes to fail-safe mode where Generator 2 again is in charge to supply the EMS. In fail-safe mode Generator 2 is still able to cover a certain power on the Airframe side.

NOTE

*But it is needed to minimize the power on the Airframe side (switch **OFF** some instruments, air-condition, etc....), please check with Pilot Operating Handbook of the relevant Airframe manufacturer.*

The EMS is not capable of supervising the power provided to the airframe. If the EMS is powered by Generator 1 and Generator 2 fails; the Caution lamp 14 V (EMS) and Caution lamp 28 V (AC) are **ON**.

7.5.1) Engine Management System

The Engine Management System has following main functionality

- Ignition control
- Fuel injection control
- Fault detection
- (Internal-) Generator management

Parts

Parts of the Engine Management System are Sensors, Actuators, the ECU and the wiring harness. The core of the EMS is the engine control unit (ECU), which consists of two modules. These modules will be denoted by Lane A and Lane B, each one capable of taking over control, regulation and monitoring of the engine. In error-free engine operation, both Lanes are turned ON.
During engine control by Lane A, Lane B ensures that the engine operation can be maintained even after a failure or reduced functionality of Lane A. Depending on the activity and the failure status of the two Lanes, the ECU automatically selects a Lane to take over control of the engine. A huge quantity of sensors (e. g. sensors for measuring the pressure in the airbox) and actuators (e. g. ignition coils) of the engine are designed with redundancy. In this case, each of the sensors or actuators is connected to a Lane, so that the two Lanes have the same measurement values and send the same output signals. Non-redundant sensors (e. g. oil pressure sensors) are connected to one Lane only and serve for the expanded monitoring of the engine functionality. Due to an ECU internal communication, these sensor values will be exchanged between the two Lanes (assuming that both Lanes are active and free of errors).

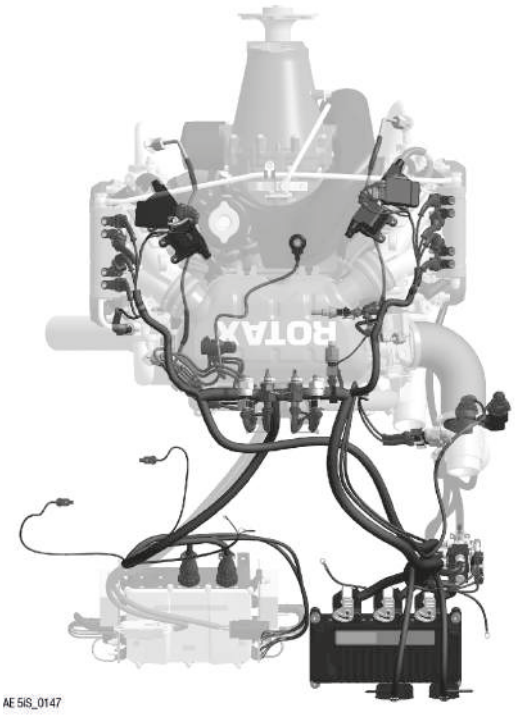

Figure 11: Management System

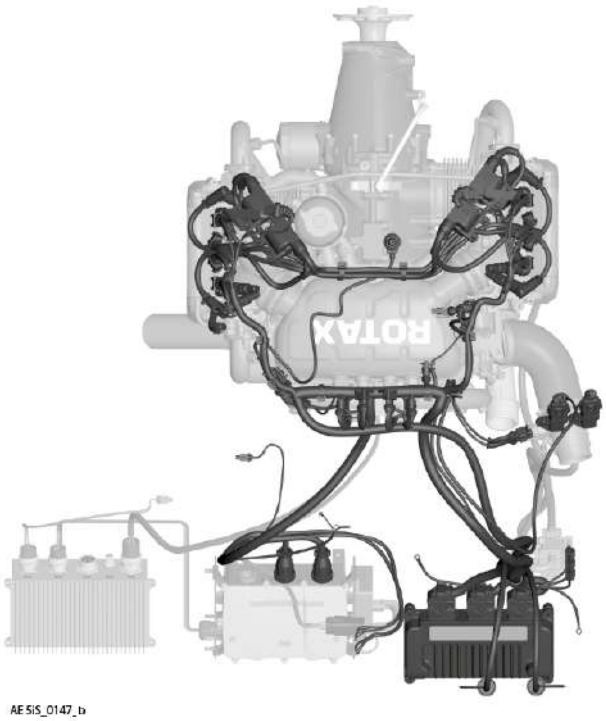

Figure 12: Management System

7.5.2) Ignition control

The 915 iSc/iS is equipped with 4 double ignition coils. The ignition system is almost entirely wear-free, as the ECU generates and processes the ignition signal electronically.

7.5.3) Fuel injection control

The engine is equipped with an electronic fuel injection system. This system is controlled by the ECU and enables highly accurate metering of the fuel according to operating and load conditions, whilst at the same time also taking ambient conditions into account.
The key input variables are throttle valve position, engine speed signal, intake air temperature, ambient pressure, manifold pressure and exhaust temperature. Ultimately, the required fuel quantity or injection period is determined on the basis of the calculated air density in the airbox. It is monitored continuously.

7.5.4) Communication interfaces

Each Lane has a maintenance and a display interface (CAN-bus). While the maintenance interface is required to work with the BUDS Aircraft Diagnostic Software to perform various diagnostic and maintenance activities, the display CAN interface enables the connection of a display for visualization of engine parameters.

B.U.D.S Software

For engines of the ROTAX® 915 i A Series, the maintenance and BUDS Aircraft Diagnostic Software is available. This provides not only the reading of ECU logs, it also provides a variety of functionality to support troubleshooting of the engine. To start this software and connect the engine with a computer a BUDS Aircraft Diagnostic Software kit is required. This is a hardware interface that provides different software functionality depending on its version.

7.6) Air intake system and Boost pressure control

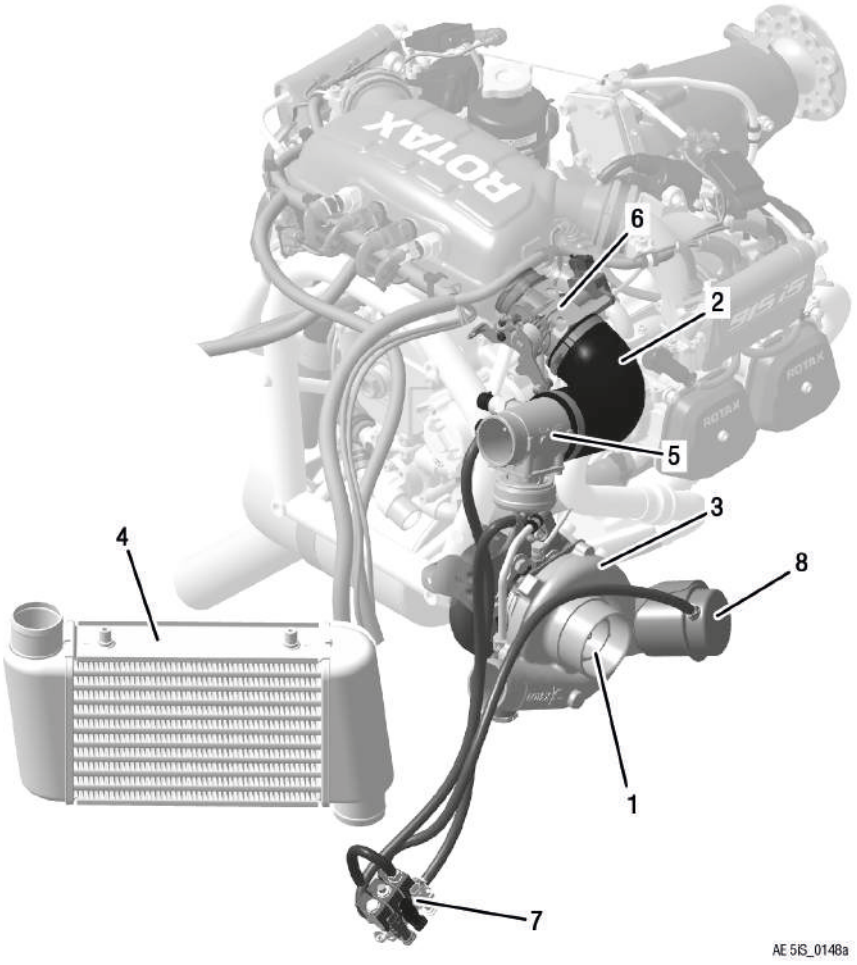

Figure 13: Air intake system

1	*Airfilter connection*	*2*	*Air intake hose*
3	*Turbocharger*	*4*	*Intercooler*
5	*Pop OFF valve*	*6*	*Throttle*
7	*Solenoid valve*	*8*	*Waste gate*

Air Flow

The compressor side of the turbocharger sucks air thru the air-filter and pushes it thru the Intercooler into the airbox. The pressure in the airbox is controlled by the Throttle. From the airbox the compressed air moves thru the intake manifolds into the four cylinders.

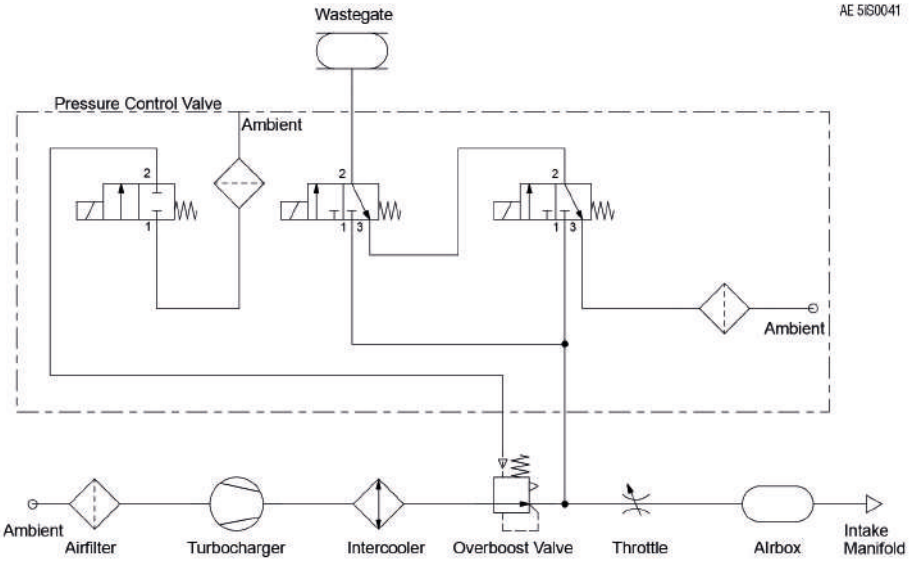

Figure 14

Boost pressure control

The compression rate of air is depending on the amount of exhaust gases passing the compression side of the turbocharger. For controlling this compression rate the waste gate has an important role. If the wastegate is fully closed the complete flow of exhaust gases must pass the turbine. The more the wastegate is opened, the less exhaust gases have to pass the turbine. The waste gate is powered by the boost pressure from the compressor. Pneumatic valves actuated by the ECU control the amount of the boost pressure necessary to adjust the waste gate to reach the requested boost pressure. The PCV, as well as Wastegate, are normally closed

Over boost valve

In case of overboost conditions the overboost valve is opened to relieve the excessive pressure.

Ambient Air Pressure and Temperature Sensor (AAPTS)

The two Ambient Air Pressure and Temperature Sensors (AAPTS) are all-in-one sensors for engine ambient temperature and engine ambient pressure. In cowled engine installations they have to be mounted in the engine compartment in a ram-air-free area and close to the air inlet. The sensors must

measure the correct air inlet temperature and the air pressure right before the air filter.

Boost Pressure Sensor (BPS)

The boost pressure sensors for reading of the boost pressure are located right before the throttle near the overboost valve.

Manifold Air Pressure Sensor (MAP)

The manifold air pressure sensors are located on the airbox.

Manifold Air Temperature Sensor (MAT)

The manifold air temperature sensors are located on the airbox.

7.7) Exhaust system

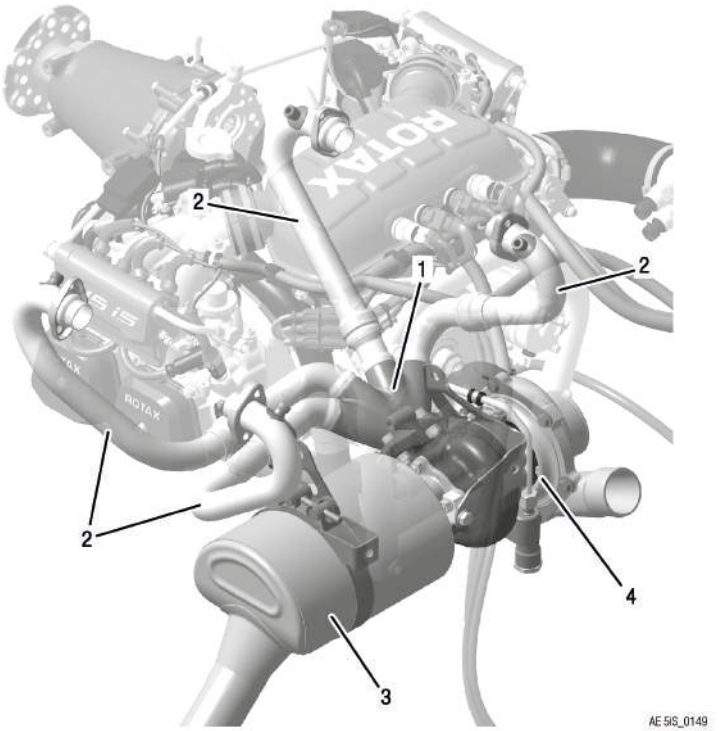

Figure 15: Turbocharger/Exhaust system

1	*Exhaust manifold*	*2*	*Exhaust pipes*
3	*Muffler*	*4*	*Turbocharger*

Exhaust flow

The Exhaust gases are pushed out of the cylinders thru the exhaust pipes and are brought together in the exhaust manifold. From there the exhaust gases pass the turbine side of the turbocharger (depending on the waste gate position). From there the exhaust gases leave the engine thru the muffler.

Exhaust Gas Temperature Sensors (EGT)

The sensors for reading the exhaust gas temperature are located on the exhaust pipes near the cylinder outlet.

7.8) Propeller gearbox

Reduction ratio

Reduction ratio	915 iSc/iS
crankshaft: propeller shaft	2.54:1

The propeller shaft is driven by the crankshaft by means of a spur gear unit.

The power transmission from the crankshaft to the propeller consists of:

- Overload clutch
- Damper clutch
- Torsion shaft

The damper clutch and torsion shaft absorbs vibrations and/or shocks caused by engine running and/or the propeller. The overload clutch protects the crankshaft in case of a propeller strike.

Governor

Alternatively a hydraulic governor for constant speed propeller can be used (only for configuration 3). The drive is via the propeller reduction gear.

8) Preservation and storage

Topics in this chapter

Safety

All checks to be carried out as specified in the current Maintenance Manual Line (MML) (last revision).

As well as the maintenance and special checks, see Maintenance Manual Line (MML) for the engine type 915 i A Series.

⚠ WARNING

Non-compliance can result in serious injuries or death!
Only qualified staff (authorized by the Aviation Authorities) trained on this particular engine, is allowed to carry out maintenance and repair work.

NOTE

Other useful information for service and airworthiness of your engine you'll find on www.rotax-owner.com.

NOTICE

Carry out all directives of Service Bulletins (SB), according to their priority. Observe applicable Service Instructions (SI) and Service Letter (SL).

8.1) Engine preservation and storage

General

Environmental corrosion (on the external surfaces) is a naturally occurring process which can inevitably affect the continued airworthiness of the engine, engine mounted components and accessories. Susceptibility to corrosion is influenced by a number of factors, including but not limited to, geographical location, season and usage. All general preventive (technical) measures, identification, control and treatment of corrosive attack on aircraft structures and engine materials has to be carried out in accordance with Advisory Circular AC 43-4B from FAA and also in accordance with the information of the aircraft manufacturer ´s Instruction for Continued Airworthiness. Furthermore the preservation procedures for stored and inactive aircraft (engines) provides an effective means for combating and minimizing the corrosion condition and should be adhered to.
Advisory Circular AC 43-4B: This advisory circular (AC) is a summary of the current available data regarding identification and treatment of corrosive attack on aircraft structures and engine materials. Corrosion inspection frequency, corrosion identification, and especially corrosion treatment continues to be the responsibility of the operator. These inspections should be accomplished per this AC, the manufacturer's recommendations, or the operator's own maintenance program. The procedures in this AC are an acceptable means, but not the only acceptable means, of corrosion treatment. The information in this AC is applicable to aircraft for which the manufacturer has not published corrosion control information.

⚠ WARNING

Risk of burns and scalds! Hot engine parts!
Conduct checks on cold engine only!

Due to the special material of the cylinder wall, there is no need for extra protection against corrosion for ROTAX® aircraft engines. At extreme climatic conditions and/or for long out of service periods we recommend the following to protect the valve guides against corrosion:

Step	Procedure
1	Operate the engine until the temperatures have stabilized for a period of 5 min. (engine oil temperature between 50 to 70 °C (122 to 160 °F).
2	Shut-off engine.
3	Allow the engine to cool down.

Step	Procedure
4	Change oil.
5	Remove the top spark plugs and spray into openings with corrosion inhibiting oil.
6	Turn the propeller several times by hand in direction of the engine rotation, so that the corrosion inhibiting oil reaches all necessary points.
7	Install the spark plugs in accordance to the Maintenance Manual.
8	Close **all** openings on the cold engine, such as exhaust end pipe, venting tube, air filter etc. against entry of dirt and humidity.
9	Spray all steel external engine parts with corrosion inhibiting oil.

8.2) Engine back to operation

If preservation (including oil change) took place within a year of storage, oil renewal will not be necessary. For longer storage periods repeat preservation annually.

Step	Procedure
1	Remove all plugs and caps.
2	Clean spark plugs with plastic brush and solvent.
3	Reinstall.

INTENTIONALLY LEFT BLANK

9) Supplement

Topics in this chapter

See Form.

According to the regulation of EASA part 21.A.3 the manufacturer shall evaluate field information and report to the authority. In case of any relevant occurrences that may involve malfunction of the engine, the form on the next page should be filled out and sent to the responsible ROTAX® authorized aircraft engines distributor or their independent Service Center.

NOTE

The form is also available from the official ROTAX® AIRCRAFT ENGINES Website in electronic version.

Authorized Distributor

Overview of ROTAX® authorized aircraft engines distributor or their independent Service Center.
Refer to the official ROTAX® AIRCRAFT ENGINES Website www.FLYROTAX.com.

9.1) Form

ROTAX.

CUSTOMER SERVICE INFORMATION REPORT

WHEN / WHERE / WHAT

Accident / Incident Date _____ State / Country _____

Location of Occurence _____

Headline _____

Narrative

AIRCRAFT IDENTIFICATION

Aircraft registration _____ Aircraft category _____

Manufacturer _____ Model / Series _____

Serial Number _____ Aircraft total time _____

FLIGHT DETAILS

Flight phase _____ Operator _____

Last departure point _____ Planned destination _____

ENGINE INFORMATION

Type _____ Serial Number _____

Time since new [h] _____ Time since overhaul [h] _____

Date overhaul _____ Date inspection / maintenance _____

PROPELLER INFORMATION

Manufacturer _____ Model / Series _____

Serial Number _____ Propeller position _____

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EASA.21J.048

A BRP BRAND

Figure 1: Form

10) Proper disposal

ENVIRONMENTAL NOTE

Please observe the disposal regulations applicable in your area.

General

All old/used parts, liquids and chemical agents be disposed of according to local ordinance regulations.

Packaging

The disposal of the packaging is the customer's responsibility and has to take place in accordance with the current regulations of the country in which it has been removed.

Liquids

- Engine oil:
  Dispose of engine oil at the respective oil collecting point or hand it over to an approved disposal company
- Coolant:
  Dispose of coolant at the respective collecting point or hand it over to an approved disposal company
- Fuel:
  Dispose of fuel at the respective collecting point or hand it over to an approved disposal company

⚠ WARNING

Flammable material must be placed at a sufficient distance from all sources of ignition, direct and strong sunlight, spotlights and heating devices, so that it cannot be ignited by such items.

ENVIRONMENTAL NOTE

Observe the safety instructions of the manufacturer of hazardous substances (coolant, oil or fuel) and the applicable regional waste disposal regulations.

ENVIRONMENTAL NOTE

Work with the utmost care to ensure that no water pollutants can penetrate into the soil, water or the sewerage system.

Old/used parts	Please return old/used parts (not periodic maintenance parts) from ROTAX® aircraft engines F.O.B to ROTAX® Authorized Distributors or their independent Service Centers.
Chemical agents (cleaner, LOCTITE etc.)	Please observe the safety and disposal instructions of the manufacturer.

Index

R

S

T

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1	5800	1,013	0	100	0	104,5083055	33,92	1,5074	277,75
2	5800	0,908	-6	100	2999	104,2914135	33,64	1,4934	271,85
3	5800	0,812	-12	100	5997	104,7614612	33,79	1,5102	266,05
4	5800	0,724	-18	100	8999	104,8299416	33,91	1,5197	260,25
5	5800	0,644	-24	100	11998	104,9284941	33,96	1,5226	254,35
6	5800	0,572	-30	100	15000	105,0191481	34,14	1,5176	248,55
7	5800	0,527	-34	100	17001	104,8183805	34,08	1,4730	244,65
8	5800	0,485	-38	100	18999	102,1415947	33,28	1,3961	240,85
9	5800	0,446	-42	100	21001	96,64806233	31,96	1,3013	237,05
10	5800	0,410	-46	100	22999	89,6052726	30,59	1,2059	233,25
11	5800	1,013	0	99,4	0	101,7111954	32,61	1,4696	277,75
12	5800	0,908	-6	99,4	2999	100,7685431	32,03	1,4461	271,75
13	5800	0,812	-12	99,4	5997	100,1951801	31,70	1,4496	265,95
14	5800	0,724	-18	99,4	8999	99,24247295	31,36	1,4461	260,05
15	5800	0,644	-24	99,4	11998	98,56033027	31,17	1,4444	254,25
16	5800	0,572	-30	99,4	15000	99,4148542	31,58	1,4499	248,35
17	5800	0,527	-34	99,4	17001	100,0682755	31,76	1,4152	244,45
18	5800	0,485	-38	99,4	18999	98,16444326	31,27	1,3472	240,55
19	5800	0,446	-42	99,4	21001	93,3223196	30,26	1,2595	236,75
20	5800	0,410	-46	99,4	22999	86,7846089	29,10	1,1695	232,85
21	5800	1,013	0	98,8	0	98,84053467	31,26	1,4314	277,65
22	5800	0,908	-6	98,8	2999	97,21208274	30,40	1,3998	271,75
23	5800	0,812	-12	98,8	5997	95,62542568	29,65	1,3899	265,95
24	5800	0,724	-18	98,8	8999	93,73580146	28,93	1,3741	260,05
25	5800	0,644	-24	98,8	11998	92,50114367	28,58	1,3685	254,05
26	5800	0,572	-30	98,8	15000	93,98842135	29,14	1,3821	248,15
27	5800	0,527	-34	98,8	17001	95,29615774	29,51	1,3564	244,25
28	5800	0,485	-38	98,8	18999	94,0508842	29,28	1,2970	240,35
29	5800	0,446	-42	98,8	21001	89,83741172	28,55	1,2168	236,45
30	5800	0,410	-46	98,8	22999	83,83159084	27,59	1,1324	232,55
31	5800	1,013	0	97,4	0	91,95403705	28,08	1,3423	277,55
32	5800	0,908	-6	97,4	2999	88,88570136	26,66	1,2956	271,65
33	5800	0,812	-12	97,4	5997	85,15876905	25,13	1,2556	265,75
34	5800	0,724	-18	97,4	8999	81,46476585	23,84	1,2153	259,85
35	5800	0,644	-24	97,4	11998	79,64903214	23,38	1,2031	253,85
36	5800	0,572	-30	97,4	15000	82,15588771	24,13	1,2278	247,95
37	5800	0,527	-34	97,4	17001	84,3470187	24,73	1,2187	244,05
38	5800	0,485	-38	97,4	18999	84,23050385	24,92	1,1781	240,05
39	5800	0,446	-42	97,4	21001	81,33782119	24,69	1,1150	236,05
40	5800	0,410	-46	97,4	22999	76,59343833	24,16	1,0442	232,15
41	5800	1,013	0	94,1	0	74,78971035	21,66	1,1443	277,45
42	5800	0,908	-6	94,1	2999	69,37190323	19,64	1,0748	271,45
43	5800	0,812	-12	94,1	5997	62,98696218	17,64	0,9923	265,55
44	5800	0,724	-18	94,1	8999	57,63396721	16,43	0,9243	259,65
45	5800	0,644	-24	94,1	11998	56,35139229	16,41	0,9062	253,55
46	5800	0,572	-30	94,1	15000	59,31498959	17,19	0,9282	247,55
47	5800	0,527	-34	94,1	17001	61,49758867	17,75	0,9333	243,65
48	5800	0,485	-38	94,1	18999	62,22751192	18,11	0,9185	239,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
49	5800	0,446	-42	94,1	21001	61,14232931	18,22	0,8854	235,75
50	5800	0,410	-46	94,1	22999	58,64288042	18,10	0,8420	231,75
51	5800	1,013	0	84,5	0	44,5109088	13,79	0,8075	277,05
52	5800	0,908	-6	84,5	2999	41,25060557	12,77	0,7477	271,25
53	5800	0,812	-12	84,5	5997	37,95703444	11,88	0,6906	265,15
54	5800	0,724	-18	84,5	8999	33,8489024	11,08	0,6313	259,15
55	5800	0,644	-24	84,5	11998	30,27759929	10,36	0,5792	253,35
56	5800	0,572	-30	84,5	15000	27,74751672	9,70	0,5386	247,45
57	5800	0,527	-34	84,5	17001	26,34189819	9,28	0,5148	243,55
58	5800	0,485	-38	84,5	18999	25,04337168	8,91	0,4929	239,65
59	5800	0,446	-42	84,5	21001	23,80025556	8,61	0,4724	235,85
60	5800	0,410	-46	84,5	22999	22,58526633	8,38	0,4534	232,05
61	5800	1,013	0	72	0	24,52378685	9,62	0,5872	277,15
62	5800	0,908	-6	72	2999	21,81010698	8,77	0,5308	271,25
63	5800	0,812	-12	72	5997	19,41009482	8,01	0,4847	265,25
64	5800	0,724	-18	72	8999	16,96282542	7,33	0,4399	259,35
65	5800	0,644	-24	72	11998	14,41904884	6,75	0,3950	253,45
66	5800	0,572	-30	72	15000	11,78785592	6,25	0,3540	247,65
67	5800	0,527	-34	72	17001	10,03170923	5,94	0,3303	243,55
68	5800	0,485	-38	72	18999	8,428325271	5,65	0,3111	239,55
69	5800	0,446	-42	72	21001	7,085087367	5,42	0,2968	235,55
70	5800	0,410	-46	72	22999	6,039827563	5,25	0,2867	231,55
71	5800	1,013	0	56,5	0	7,693672667	5,78	0,3762	278,35
72	5800	0,908	-6	56,5	2999	4,734707685	5,27	0,3318	272,65
73	5800	0,812	-12	56,5	5997	3,306534463	5,01	0,3029	266,75
74	5800	0,724	-18	56,5	8999	2,497310939	4,88	0,2807	260,65
81	5500	1,013	0	100	0	99,51428558	32,19	1,4348	277,65
82	5500	0,908	-6	100	2999	99,09718562	31,73	1,4189	271,75
83	5500	0,812	-12	100	5997	99,81348163	32,06	1,4376	265,95
84	5500	0,724	-18	100	8999	99,67295046	32,09	1,4456	259,95
85	5500	0,644	-24	100	11998	99,62210712	32,13	1,4512	254,15
86	5500	0,572	-30	100	15000	99,8150346	32,33	1,4461	248,15
87	5500	0,527	-34	100	17001	100,2715364	32,71	1,4062	244,25
88	5500	0,485	-38	100	18999	98,83768869	32,28	1,3378	240,35
89	5500	0,446	-42	100	21001	94,4484313	31,23	1,2471	236,55
90	5500	0,410	-46	100	22999	87,81330811	29,97	1,1500	232,75
91	5500	1,013	0	99,4	0	96,91565234	30,93	1,3999	277,65
92	5500	0,908	-6	99,4	2999	95,88764475	30,19	1,3751	271,75
93	5500	0,812	-12	99,4	5997	95,52897501	29,99	1,3810	265,85
94	5500	0,724	-18	99,4	8999	94,45004826	29,57	1,3769	259,95
95	5500	0,644	-24	99,4	11998	93,73385473	29,36	1,3784	253,95
96	5500	0,572	-30	99,4	15000	94,68463317	29,87	1,3837	248,05
97	5500	0,527	-34	99,4	17001	95,94980072	30,47	1,3532	244,05
98	5500	0,485	-38	99,4	18999	95,18713304	30,34	1,2928	240,15
99	5500	0,446	-42	99,4	21001	91,35747027	29,57	1,2086	236,35
100	5500	0,410	-46	99,4	22999	85,18222973	28,49	1,1164	232,55
101	5500	1,013	0	98,8	0	94,2599442	29,63	1,3651	277,55

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
102	5500	0,908	-6	98,8	2999	92,64567583	28,63	1,3327	271,75
103	5500	0,812	-12	98,8	5997	91,26273882	27,97	1,3254	265,85
104	5500	0,724	-18	98,8	8999	89,33061847	27,19	1,3098	259,85
105	5500	0,644	-24	98,8	11998	88,14946861	26,83	1,3077	253,85
106	5500	0,572	-30	98,8	15000	89,73508785	27,56	1,3211	247,95
107	5500	0,527	-34	98,8	17001	91,59825083	28,30	1,2989	243,95
108	5500	0,485	-38	98,8	18999	91,36719748	28,40	1,2461	240,05
109	5500	0,446	-42	98,8	21001	88,04919456	27,87	1,1685	236,15
110	5500	0,410	-46	98,8	22999	82,35617938	26,98	1,0817	232,25
111	5500	1,013	0	97,4	0	87,92896963	26,62	1,2849	277,55
112	5500	0,908	-6	97,4	2999	85,0579432	25,09	1,2386	271,65
113	5500	0,812	-12	97,4	5997	81,57165887	23,61	1,2013	265,85
114	5500	0,724	-18	97,4	8999	78,02283433	22,33	1,1624	259,75
115	5500	0,644	-24	97,4	11998	76,37879921	21,90	1,1537	253,65
116	5500	0,572	-30	97,4	15000	78,98841939	22,86	1,1785	247,75
117	5500	0,527	-34	97,4	17001	81,56954466	23,72	1,1714	243,85
118	5500	0,485	-38	97,4	18999	82,11606528	24,13	1,1344	239,85
119	5500	0,446	-42	97,4	21001	79,79483432	24,02	1,0719	235,85
120	5500	0,410	-46	97,4	22999	75,23583207	23,52	0,9981	231,95
121	5500	1,013	0	94,1	0	72,29856754	20,73	1,1081	277,35
122	5500	0,908	-6	94,1	2999	67,34036938	18,74	1,0405	271,45
123	5500	0,812	-12	94,1	5997	61,415535	16,87	0,9616	265,45
124	5500	0,724	-18	94,1	8999	56,49366466	15,84	0,8976	259,55
125	5500	0,644	-24	94,1	11998	55,38485484	15,94	0,8815	253,55
126	5500	0,572	-30	94,1	15000	58,17634027	16,73	0,9025	247,45
127	5500	0,527	-34	94,1	17001	60,26730036	17,26	0,9061	243,55
128	5500	0,485	-38	94,1	18999	60,98149415	17,57	0,8890	239,55
129	5500	0,446	-42	94,1	21001	59,89326719	17,63	0,8525	235,65
130	5500	0,410	-46	94,1	22999	57,34271647	17,46	0,8051	231,65
131	5500	1,013	0	84,5	0	45,28399248	13,73	0,8131	276,95
132	5500	0,908	-6	84,5	2999	42,4180251	12,81	0,7569	271,05
133	5500	0,812	-12	84,5	5997	39,19979037	11,99	0,7019	265,25
134	5500	0,724	-18	84,5	8999	35,28849526	11,25	0,6440	259,35
135	5500	0,644	-24	84,5	11998	31,795046	10,53	0,5896	253,25
136	5500	0,572	-30	84,5	15000	28,94029391	9,76	0,5430	247,35
137	5500	0,527	-34	84,5	17001	27,17767345	9,23	0,5145	243,55
138	5500	0,485	-38	84,5	18999	25,52710037	8,75	0,4878	239,75
139	5500	0,446	-42	84,5	21001	23,98722778	8,35	0,4629	235,85
140	5500	0,410	-46	84,5	22999	22,54098889	8,04	0,4400	232,05
141	5500	1,013	0	72	0	25,75031406	9,59	0,6003	276,95
142	5500	0,908	-6	72	2999	23,26397826	8,77	0,5433	271,05
143	5500	0,812	-12	72	5997	20,88188943	8,03	0,4956	265,15
144	5500	0,724	-18	72	8999	18,37086951	7,35	0,4486	259,25
145	5500	0,644	-24	72	11998	15,82436216	6,75	0,4009	253,25
146	5500	0,572	-30	72	15000	13,19108912	6,22	0,3570	247,35
147	5500	0,527	-34	72	17001	11,39341895	5,89	0,3311	243,45
148	5500	0,485	-38	72	18999	9,707441081	5,59	0,3097	239,35

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
149	5500	0,446	-42	72	21001	8,245670274	5,33	0,2933	235,35
150	5500	0,410	-46	72	22999	7,064090852	5,13	0,2813	231,35
151	5500	1,013	0	56,5	0	9,025232102	5,73	0,3809	277,55
152	5500	0,908	-6	56,5	2999	6,560585117	5,25	0,3371	271,65
153	5500	0,812	-12	56,5	5997	5,063409499	4,97	0,3063	265,75
154	5500	0,724	-18	56,5	8999	3,862165883	4,77	0,2807	259,85
155	5500	0,644	-24	56,5	11998	2,701900645	4,57	0,2597	254,05
161	5800	1,013	15	100	0	104,3921186	33,95	1,5206	292,75
162	5800	0,908	9	100	2999	104,4389829	33,79	1,5123	287,05
163	5800	0,812	3	100	5997	104,4572142	33,89	1,5093	281,15
164	5800	0,724	-3	100	8999	104,7008665	33,92	1,5145	275,35
165	5800	0,644	-9	100	11998	104,9399824	33,98	1,5149	269,45
166	5800	0,572	-15	100	15000	104,9196626	34,08	1,5268	263,65
167	5800	0,527	-19	100	17001	104,7418887	33,63	1,5098	259,85
168	5800	0,485	-23	100	18999	102,3513851	32,35	1,4602	256,05
169	5800	0,446	-27	100	21001	97,03385755	30,54	1,3870	252,35
170	5800	0,410	-31	100	22999	89,5176104	28,94	1,2949	248,35
171	5800	1,013	15	99,4	0	101,5670874	32,61	1,4831	292,75
172	5800	0,908	9	99,4	2999	100,8450503	32,13	1,4661	286,95
173	5800	0,812	3	99,4	5997	99,90084349	31,74	1,4476	281,15
174	5800	0,724	-3	99,4	8999	98,98569767	31,26	1,4366	275,25
175	5800	0,644	-9	99,4	11998	98,07323986	30,98	1,4215	269,35
176	5800	0,572	-15	99,4	15000	98,7425386	31,26	1,4412	263,45
177	5800	0,527	-19	99,4	17001	99,62390871	31,13	1,4391	259,55
178	5800	0,485	-23	99,4	18999	98,07559319	30,23	1,4020	255,75
179	5800	0,446	-27	99,4	21001	93,45596428	28,81	1,3383	251,95
180	5800	0,410	-31	99,4	22999	86,56728107	27,46	1,2541	248,15
181	5800	1,013	15	98,8	0	98,66200101	31,24	1,4446	292,75
182	5800	0,908	9	98,8	2999	97,22127671	30,45	1,4202	286,95
183	5800	0,812	3	98,8	5997	95,34094409	29,62	1,3872	281,05
184	5800	0,724	-3	98,8	8999	93,37079539	28,73	1,3611	275,05
185	5800	0,644	-9	98,8	11998	91,64992302	28,21	1,3348	269,25
186	5800	0,572	-15	98,8	15000	92,89883603	28,62	1,3599	263,35
187	5800	0,527	-19	98,8	17001	94,54839138	28,73	1,3691	259,35
188	5800	0,485	-23	98,8	18999	93,68885385	28,17	1,3429	255,45
189	5800	0,446	-27	98,8	21001	89,71389996	27,10	1,2882	251,65
190	5800	0,410	-31	98,8	22999	83,45775241	25,98	1,2118	247,75
191	5800	1,013	15	97,4	0	91,67509054	28,02	1,3531	292,75
192	5800	0,908	9	97,4	2999	88,74682778	26,61	1,3150	286,85
193	5800	0,812	3	97,4	5997	84,88907894	24,98	1,2530	280,95
194	5800	0,724	-3	97,4	8999	80,92531519	23,48	1,1973	274,85
195	5800	0,644	-9	97,4	11998	78,3760684	22,75	1,1578	268,95
196	5800	0,572	-15	97,4	15000	80,59162014	23,30	1,1883	263,05
197	5800	0,527	-19	97,4	17001	83,14071473	23,74	1,2125	259,15
198	5800	0,485	-23	97,4	18999	83,3692147	23,75	1,2056	255,15
199	5800	0,446	-27	97,4	21001	80,67158158	23,32	1,1689	251,25
200	5800	0,410	-31	97,4	22999	75,82571179	22,70	1,1097	247,25

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
201	5800	1,013	15	94,1	0	74,22942804	21,58	1,1461	292,55
202	5800	0,908	9	94,1	2999	68,88730538	19,52	1,0842	286,65
203	5800	0,812	3	94,1	5997	62,65457858	17,42	0,9927	280,65
204	5800	0,724	-3	94,1	8999	57,13068246	16,06	0,9095	274,65
205	5800	0,644	-9	94,1	11998	55,37214762	15,88	0,8735	268,65
206	5800	0,572	-15	94,1	15000	58,15509444	16,53	0,8974	262,75
207	5800	0,527	-19	94,1	17001	60,4571371	17,02	0,9196	258,75
208	5800	0,485	-23	94,1	18999	61,29574066	17,31	0,9255	254,85
209	5800	0,446	-27	94,1	21001	60,20026019	17,35	0,9102	250,85
210	5800	0,410	-31	94,1	22999	57,60114063	17,19	0,8775	246,95
211	5800	1,013	15	84,5	0	43,85199855	13,70	0,8007	292,35
212	5800	0,908	9	84,5	2999	40,57136005	12,65	0,7405	286,25
213	5800	0,812	3	84,5	5997	37,38077315	11,73	0,6846	280,15
214	5800	0,724	-3	84,5	8999	33,40440275	10,90	0,6278	274,35
215	5800	0,644	-9	84,5	11998	29,65525599	10,13	0,5750	268,55
216	5800	0,572	-15	84,5	15000	26,79567428	9,42	0,5317	262,55
217	5800	0,527	-19	84,5	17001	25,18934149	8,96	0,5063	258,65
218	5800	0,485	-23	84,5	18999	23,73063929	8,55	0,4834	254,85
219	5800	0,446	-27	84,5	21001	22,36396208	8,22	0,4623	251,05
220	5800	0,410	-31	84,5	22999	21,08281555	7,96	0,4432	247,35
221	5800	1,013	15	72	0	24,0707563	9,46	0,5873	292,15
222	5800	0,908	9	72	2999	21,22879464	8,56	0,5263	286,25
223	5800	0,812	3	72	5997	18,66677549	7,76	0,4754	280,35
224	5800	0,724	-3	72	8999	16,10175907	7,05	0,4293	274,45
225	5800	0,644	-9	72	11998	13,52934195	6,44	0,3838	268,55
226	5800	0,572	-15	72	15000	10,87012601	5,93	0,3410	262,55
227	5800	0,527	-19	72	17001	9,057414196	5,62	0,3149	258,55
228	5800	0,485	-23	72	18999	7,359098365	5,34	0,2927	254,65
229	5800	0,446	-27	72	21001	5,900979186	5,10	0,2753	250,65
230	5800	0,410	-31	72	22999	4,783375598	4,93	0,2629	246,65
231	5800	1,013	15	56,5	0	7,943891883	5,80	0,3788	293,05
232	5800	0,908	9	56,5	2999	5,184346554	5,28	0,3359	287,15
233	5800	0,812	3	56,5	5997	3,648626829	4,99	0,3067	281,35
234	5800	0,724	-3	56,5	8999	2,544082809	4,83	0,2797	275,55
241	5500	1,013	15	100	0	99,1739498	32,16	1,4421	292,85
242	5500	0,908	9	100	2999	99,18518396	31,81	1,4423	287,05
243	5500	0,812	3	100	5997	99,42691583	32,14	1,4375	281,15
244	5500	0,724	-3	100	8999	99,46087589	32,12	1,4395	275,25
245	5500	0,644	-9	100	11998	99,58596529	32,11	1,4405	269,25
246	5500	0,572	-15	100	15000	99,68651533	32,08	1,4709	263,35
247	5500	0,527	-19	100	17001	100,023739	32,18	1,4503	259,45
248	5500	0,485	-23	100	18999	99,02685146	31,31	1,4166	255,65
249	5500	0,446	-27	100	21001	95,36712315	29,80	1,3626	251,75
250	5500	0,410	-31	100	22999	88,55580626	28,37	1,2764	248,05
251	5500	1,013	15	99,4	0	96,56317971	30,88	1,4091	292,85
252	5500	0,908	9	99,4	2999	95,89770228	30,22	1,4005	287,05
253	5500	0,812	3	99,4	5997	95,17773655	29,99	1,3800	281,05

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
254	5500	0,724	-3	99,4	8999	94,13409003	29,45	1,3668	275,05
255	5500	0,644	-9	99,4	11998	93,24979463	29,07	1,3546	269,15
256	5500	0,572	-15	99,4	15000	94,03513813	29,38	1,3905	263,25
257	5500	0,527	-19	99,4	17001	95,42379408	29,75	1,3865	259,25
258	5500	0,485	-23	99,4	18999	95,15075552	29,26	1,3636	255,35
259	5500	0,446	-27	99,4	21001	92,01207992	28,12	1,3170	251,55
260	5500	0,410	-31	99,4	22999	85,73831353	26,89	1,2372	247,65
261	5500	1,013	15	98,8	0	93,88515075	29,58	1,3753	292,85
262	5500	0,908	9	98,8	2999	92,57934477	28,61	1,3592	286,95
263	5500	0,812	3	98,8	5997	90,93977423	27,90	1,3241	281,05
264	5500	0,724	-3	98,8	8999	88,92753139	26,95	1,2966	274,95
265	5500	0,644	-9	98,8	11998	87,33727969	26,33	1,2748	269,15
266	5500	0,572	-15	98,8	15000	88,70951834	26,88	1,3141	263,15
267	5500	0,527	-19	98,8	17001	90,84297885	27,44	1,3229	259,15
268	5500	0,485	-23	98,8	18999	91,11427758	27,26	1,3091	255,25
269	5500	0,446	-27	98,8	21001	88,42109635	26,43	1,2690	251,25
270	5500	0,410	-31	98,8	22999	82,68373657	25,41	1,1956	247,45
271	5500	1,013	15	97,4	0	87,46870538	26,53	1,2948	292,85
272	5500	0,908	9	97,4	2999	84,81463841	24,99	1,2646	286,95
273	5500	0,812	3	97,4	5997	81,28462149	23,41	1,2015	280,95
274	5500	0,724	-3	97,4	8999	77,48765238	21,91	1,1457	274,85
275	5500	0,644	-9	97,4	11998	75,19387424	21,15	1,1120	268,95
276	5500	0,572	-15	97,4	15000	77,55179913	21,93	1,1529	262,95
277	5500	0,527	-19	97,4	17001	80,47319962	22,68	1,1794	258,95
278	5500	0,485	-23	97,4	18999	81,44103495	22,95	1,1805	255,05
279	5500	0,446	-27	97,4	21001	79,52478591	22,68	1,1521	251,05
280	5500	0,410	-31	97,4	22999	74,98170382	22,10	1,0931	247,05
281	5500	1,013	15	94,1	0	71,52872505	20,62	1,1093	292,55
282	5500	0,908	9	94,1	2999	66,67151938	18,60	1,0537	286,65
283	5500	0,812	3	94,1	5997	61,0464453	16,63	0,9660	280,55
284	5500	0,724	-3	94,1	8999	56,08564836	15,46	0,8869	274,65
285	5500	0,644	-9	94,1	11998	54,63607011	15,42	0,8564	268,65
286	5500	0,572	-15	94,1	15000	57,22842779	16,09	0,8840	262,75
287	5500	0,527	-19	94,1	17001	59,3785806	16,54	0,9074	258,75
288	5500	0,485	-23	94,1	18999	60,17971906	16,79	0,9134	254,75
289	5500	0,446	-27	94,1	21001	59,10062305	16,78	0,8967	250,75
290	5500	0,410	-31	94,1	22999	56,47275517	16,58	0,8603	246,75
291	5500	1,013	15	84,5	0	44,44179185	13,63	0,8036	292,05
292	5500	0,908	9	84,5	2999	41,62633233	12,69	0,7483	286,25
293	5500	0,812	3	84,5	5997	38,6357526	11,85	0,6971	280,15
294	5500	0,724	-3	84,5	8999	34,91873267	11,08	0,6441	274,25
295	5500	0,644	-9	84,5	11998	31,32857079	10,32	0,5914	268,45
296	5500	0,572	-15	84,5	15000	28,15848278	9,49	0,5431	262,65
297	5500	0,527	-19	84,5	17001	26,14786993	8,92	0,5130	258,75
298	5500	0,485	-23	84,5	18999	24,28432094	8,39	0,4852	254,85
299	5500	0,446	-27	84,5	21001	22,58145169	7,95	0,4596	251,05
300	5500	0,410	-31	84,5	22999	21,04721733	7,62	0,4364	247,35

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
301	5500	1,013	15	72	0	25,23659489	9,42	0,5997	291,95
302	5500	0,908	9	72	2999	22,63962134	8,56	0,5376	286,05
303	5500	0,812	3	72	5997	20,10040759	7,78	0,4849	280,05
304	5500	0,724	-3	72	8999	17,46792181	7,07	0,4368	274,15
305	5500	0,644	-9	72	11998	14,92023744	6,45	0,3896	268,25
306	5500	0,572	-15	72	15000	12,31633965	5,92	0,3450	262,35
307	5500	0,527	-19	72	17001	10,50605137	5,59	0,3172	258,35
308	5500	0,485	-23	72	18999	8,761531229	5,28	0,2932	254,35
309	5500	0,446	-27	72	21001	7,203264238	5,02	0,2738	250,35
310	5500	0,410	-31	72	22999	5,945985447	4,82	0,2594	246,35
311	5500	1,013	15	56,5	0	9,166148863	5,75	0,3828	292,55
312	5500	0,908	9	56,5	2999	6,885068491	5,26	0,3400	286,65
313	5500	0,812	3	56,5	5997	5,313948999	4,96	0,3088	280,45
314	5500	0,724	-3	56,5	8999	3,856114303	4,73	0,2788	274,75
315	5500	0,644	-9	56,5	11998	2,423338698	4,50	0,2517	268,85
321	5800	1,013	30	100	0	104,4195462	33,83	1,5108	307,85
322	5800	0,908	24	100	2999	104,7342675	33,89	1,5195	302,15
323	5800	0,812	18	100	5997	104,450057	34,02	1,4993	296,45
324	5800	0,724	12	100	8999	104,8185155	33,97	1,5075	290,55
325	5800	0,644	6	100	11998	104,5744817	34,10	1,5334	284,65
326	5800	0,572	0	100	15000	104,6894986	34,12	1,5115	278,75
327	5800	0,527	-4	100	17001	103,6197461	33,14	1,4718	274,95
328	5800	0,485	-8	100	18999	99,45344938	31,33	1,4170	271,25
329	5800	0,446	-12	100	21001	93,17776131	29,04	1,3539	267,45
330	5800	0,410	-16	100	22999	86,1847955	27,06	1,2946	263,25
331	5800	1,013	30	99,4	0	101,5744223	32,51	1,4737	307,85
332	5800	0,908	24	99,4	2999	101,128062	32,20	1,4737	302,05
333	5800	0,812	18	99,4	5997	99,92808075	31,82	1,4406	296,25
334	5800	0,724	12	99,4	8999	99,12136815	31,25	1,4322	290,45
335	5800	0,644	6	99,4	11998	97,95032984	30,92	1,4461	284,55
336	5800	0,572	0	99,4	15000	98,42587741	31,05	1,4278	278,55
337	5800	0,527	-4	99,4	17001	98,31663499	30,49	1,3988	274,65
338	5800	0,485	-8	99,4	18999	95,10114869	29,14	1,3561	270,85
339	5800	0,446	-12	99,4	21001	89,53871074	27,29	1,3034	267,05
340	5800	0,410	-16	99,4	22999	82,98944909	25,62	1,2509	263,25
341	5800	1,013	30	98,8	0	98,62562674	31,15	1,4362	307,85
342	5800	0,908	24	98,8	2999	97,45443603	30,49	1,4283	302,05
343	5800	0,812	18	98,8	5997	95,38216617	29,66	1,3837	296,25
344	5800	0,724	12	98,8	8999	93,50475002	28,65	1,3595	290,35
345	5800	0,644	6	98,8	11998	91,64862128	28,00	1,3624	284,35
346	5800	0,572	0	98,8	15000	92,46776686	28,21	1,3482	278,35
347	5800	0,527	-4	98,8	17001	93,09431444	27,97	1,3287	274,45
348	5800	0,485	-8	98,8	18999	90,71457324	27,02	1,2967	270,55
349	5800	0,446	-12	98,8	21001	85,84235632	25,59	1,2532	266,75
350	5800	0,410	-16	98,8	22999	79,7724767	24,21	1,2067	262,95
351	5800	1,013	30	97,4	0	91,48148027	27,94	1,3477	307,65
352	5800	0,908	24	97,4	2999	88,77553634	26,59	1,3239	301,85

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
353	5800	0,812	18	97,4	5997	84,91177258	24,93	1,2584	296,05
354	5800	0,724	12	97,4	8999	81,016151	23,27	1,2030	290,15
355	5800	0,644	6	97,4	11998	78,34787711	22,29	1,1843	284,15
356	5800	0,572	0	97,4	15000	79,86850705	22,59	1,1807	278,15
357	5800	0,527	-4	97,4	17001	81,50783218	22,82	1,1785	274,15
358	5800	0,485	-8	97,4	18999	80,63870109	22,58	1,1659	270,25
359	5800	0,446	-12	97,4	21001	77,22149934	21,92	1,1394	266,25
360	5800	0,410	-16	97,4	22999	72,30811054	21,14	1,1037	262,35
361	5800	1,013	30	94,1	0	73,73574307	21,52	1,1475	307,55
362	5800	0,908	24	94,1	2999	68,53239672	19,46	1,0940	301,65
363	5800	0,812	18	94,1	5997	62,62258732	17,31	1,0109	295,75
364	5800	0,724	12	94,1	8999	57,28325247	15,81	0,9276	289,85
365	5800	0,644	6	94,1	11998	55,22566148	15,45	0,8904	283,85
366	5800	0,572	0	94,1	15000	57,42394999	15,93	0,9011	277,85
367	5800	0,527	-4	94,1	17001	59,35765651	16,32	0,9139	273,85
368	5800	0,485	-8	94,1	18999	59,83247117	16,52	0,9165	269,85
369	5800	0,446	-12	94,1	21001	58,36994516	16,47	0,9045	265,95
370	5800	0,410	-16	94,1	22999	55,49235078	16,24	0,8800	261,95
371	5800	1,013	30	84,5	0	43,26662544	13,63	0,8017	307,15
372	5800	0,908	24	84,5	2999	39,9011845	12,55	0,7414	301,35
373	5800	0,812	18	84,5	5997	36,72745764	11,60	0,6860	295,45
374	5800	0,724	12	84,5	8999	32,88290382	10,73	0,6290	289,55
375	5800	0,644	6	84,5	11998	29,00280731	9,92	0,5729	283,55
376	5800	0,572	0	84,5	15000	25,79846647	9,15	0,5252	277,75
377	5800	0,527	-4	84,5	17001	23,98035841	8,66	0,4972	273,95
378	5800	0,485	-8	84,5	18999	22,35809002	8,21	0,4719	270,15
379	5800	0,446	-12	84,5	21001	20,86723175	7,85	0,4492	266,35
380	5800	0,410	-16	84,5	22999	19,49302657	7,57	0,4293	262,55
381	5800	1,013	30	72	0	23,75926918	9,31	0,5926	307,25
382	5800	0,908	24	72	2999	20,80905842	8,37	0,5303	301,35
383	5800	0,812	18	72	5997	18,05616165	7,53	0,4735	295,45
384	5800	0,724	12	72	8999	15,32314342	6,78	0,4230	289,65
385	5800	0,644	6	72	11998	12,68536004	6,15	0,3761	283,75
386	5800	0,572	0	72	15000	10,01147434	5,64	0,3330	277,85
387	5800	0,527	-4	72	17001	8,175120241	5,32	0,3059	273,85
388	5800	0,485	-8	72	18999	6,420868652	5,04	0,2815	269,75
389	5800	0,446	-12	72	21001	4,874515734	4,80	0,2613	265,75
390	5800	0,410	-16	72	22999	3,676783409	4,63	0,2458	261,65
391	5800	1,013	30	56,5	0	8,391576326	5,84	0,3897	307,85
392	5800	0,908	24	56,5	2999	5,835642633	5,31	0,3437	301,95
393	5800	0,812	18	56,5	5997	4,16957266	5,00	0,3107	296,05
394	5800	0,724	12	56,5	8999	2,771169201	4,81	0,2810	290,05
401	5500	1,013	30	100	0	99,14414353	32,09	1,4350	308,05
402	5500	0,908	24	100	2999	99,6721484	31,93	1,4558	302,15
403	5500	0,812	18	100	5997	99,54226418	32,24	1,4288	296,45
404	5500	0,724	12	100	8999	99,77642077	32,17	1,4376	290,55
405	5500	0,644	6	100	11998	99,43822314	32,19	1,4665	284,55

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
406	5500	0,572	0	100	15000	99,67265897	32,11	1,4462	278,45
407	5500	0,527	-4	100	17001	99,17756652	31,62	1,4211	274,65
408	5500	0,485	-8	100	18999	95,98580444	30,19	1,3831	270,85
409	5500	0,446	-12	100	21001	91,18905262	28,16	1,3405	267,05
410	5500	0,410	-16	100	22999	84,98688533	26,36	1,2953	263,25
411	5500	1,013	30	99,4	0	96,47963905	30,80	1,4012	308,05
412	5500	0,908	24	99,4	2999	96,25535746	30,28	1,4132	302,15
413	5500	0,812	18	99,4	5997	95,28960694	30,04	1,3741	296,35
414	5500	0,724	12	99,4	8999	94,41280003	29,41	1,3659	290,45
415	5500	0,644	6	99,4	11998	93,22464755	28,91	1,3835	284,45
416	5500	0,572	0	99,4	15000	93,88473918	29,10	1,3705	278,35
417	5500	0,527	-4	99,4	17001	94,31060732	29,03	1,3548	274,45
418	5500	0,485	-8	99,4	18999	92,04233465	28,07	1,3278	270,55
419	5500	0,446	-12	99,4	21001	87,81502756	26,49	1,2938	266,75
420	5500	0,410	-16	99,4	22999	81,98918537	24,96	1,2535	262,95
421	5500	1,013	30	98,8	0	93,73101216	29,48	1,3672	307,95
422	5500	0,908	24	98,8	2999	92,79627188	28,63	1,3710	302,15
423	5500	0,812	18	98,8	5997	91,03058736	27,90	1,3216	296,25
424	5500	0,724	12	98,8	8999	89,15473931	26,83	1,2974	290,35
425	5500	0,644	6	98,8	11998	87,34403269	25,99	1,3043	284,35
426	5500	0,572	0	98,8	15000	88,39203297	26,36	1,2984	278,25
427	5500	0,527	-4	98,8	17001	89,51353232	26,59	1,2910	274,35
428	5500	0,485	-8	98,8	18999	88,01821911	26,03	1,2735	270,35
429	5500	0,446	-12	98,8	21001	84,31471604	24,84	1,2465	266,45
430	5500	0,410	-16	98,8	22999	78,8808922	23,57	1,2102	262,65
431	5500	1,013	30	97,4	0	87,11189621	26,43	1,2882	307,95
432	5500	0,908	24	97,4	2999	84,69556547	24,93	1,2745	302,05
433	5500	0,812	18	97,4	5997	81,28289603	23,31	1,2077	296,25
434	5500	0,724	12	97,4	8999	77,57748533	21,64	1,1516	290,25
435	5500	0,644	6	97,4	11998	75,06493879	20,57	1,1379	284,25
436	5500	0,572	0	97,4	15000	76,83212905	21,11	1,1461	278,15
437	5500	0,527	-4	97,4	17001	78,84760196	21,68	1,1539	274,15
438	5500	0,485	-8	97,4	18999	78,61652088	21,73	1,1522	270,15
439	5500	0,446	-12	97,4	21001	75,93972922	21,24	1,1366	266,15
440	5500	0,410	-16	97,4	22999	71,42523798	20,52	1,1064	262,25
441	5500	1,013	30	94,1	0	70,80589036	20,55	1,1077	307,75
442	5500	0,908	24	94,1	2999	66,05450651	18,51	1,0606	301,75
443	5500	0,812	18	94,1	5997	60,8596256	16,49	0,9831	295,75
444	5500	0,724	12	94,1	8999	56,15089171	15,19	0,9033	289,85
445	5500	0,644	6	94,1	11998	54,47158715	14,98	0,8733	283,85
446	5500	0,572	0	94,1	15000	56,48875508	15,49	0,8916	277,85
447	5500	0,527	-4	94,1	17001	58,20513076	15,84	0,9085	273,85
448	5500	0,485	-8	94,1	18999	58,60372775	16,00	0,9143	269,85
449	5500	0,446	-12	94,1	21001	57,17501404	15,92	0,9038	265,85
450	5500	0,410	-16	94,1	22999	54,31444603	15,65	0,8782	261,95
451	5500	1,013	30	84,5	0	43,60111952	13,55	0,7998	307,25
452	5500	0,908	24	84,5	2999	40,73357439	12,57	0,7445	301,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
453	5500	0,812	18	84,5	5997	37,86354179	11,70	0,6948	295,15
454	5500	0,724	12	84,5	8999	34,31569188	10,90	0,6431	289,45
455	5500	0,644	6	84,5	11998	30,62568471	10,10	0,5891	283,55
456	5500	0,572	0	84,5	15000	27,1581994	9,23	0,5383	277,65
457	5500	0,527	-4	84,5	17001	24,93057231	8,62	0,5060	273,85
458	5500	0,485	-8	84,5	18999	22,87981031	8,05	0,4761	270,05
459	5500	0,446	-12	84,5	21001	21,03038462	7,58	0,4495	266,35
460	5500	0,410	-16	84,5	22999	19,3941056	7,22	0,4262	262,75
461	5500	1,013	30	72	0	24,82705383	9,26	0,6042	307,05
462	5500	0,908	24	72	2999	22,13364646	8,36	0,5409	301,05
463	5500	0,812	18	72	5997	19,40443211	7,55	0,4814	295,25
464	5500	0,724	12	72	8999	16,59739344	6,80	0,4283	289,35
465	5500	0,644	6	72	11998	13,99940353	6,16	0,3804	283,45
466	5500	0,572	0	72	15000	11,42892201	5,63	0,3367	277,45
467	5500	0,527	-4	72	17001	9,641797257	5,30	0,3088	273,45
468	5500	0,485	-8	72	18999	7,893884708	4,99	0,2832	269,45
469	5500	0,446	-12	72	21001	6,288902075	4,73	0,2613	265,45
470	5500	0,410	-16	72	22999	4,964660862	4,54	0,2440	261,35
471	5500	1,013	30	56,5	0	9,466608758	5,79	0,3931	307,75
472	5500	0,908	24	56,5	2999	7,337039111	5,29	0,3468	301,55
473	5500	0,812	18	56,5	5997	5,678074247	4,97	0,3120	295,45
474	5500	0,724	12	56,5	8999	3,989111121	4,71	0,2793	289,65
475	5500	0,644	6	56,5	11998	2,327691822	4,44	0,2490	283,65
481	5800	1,013	45	100	0	103,7771844	33,60	1,4887	323,15
482	5800	0,908	39	100	2999	104,017314	33,84	1,5031	317,35
483	5800	0,812	33	100	5997	103,3059066	34,09	1,5204	311,65
484	5800	0,724	27	100	8999	104,3127606	34,02	1,5117	305,65
485	5800	0,644	21	100	11998	104,84952	34,20	1,5481	299,75
486	5800	0,572	15	100	15000	104,1933657	34,20	1,5755	293,95
487	5800	0,527	11	100	17001	102,1605213	32,63	1,4812	290,15
488	5800	0,485	7	100	18999	95,20984194	30,30	1,3774	286,45
489	5800	0,446	3	100	21001	85,86923459	27,64	1,2856	282,25
490	5800	0,410	-1	100	22999	77,32972746	25,37	1,2081	278,15
491	5800	1,013	45	99,4	0	100,9748327	32,31	1,4546	323,15
492	5800	0,908	39	99,4	2999	100,5022726	32,16	1,4602	317,35
493	5800	0,812	33	99,4	5997	99,01663209	31,88	1,4648	311,55
494	5800	0,724	27	99,4	8999	98,75990862	31,28	1,4420	305,55
495	5800	0,644	21	99,4	11998	98,40824759	30,93	1,4633	299,65
496	5800	0,572	15	99,4	15000	98,25036971	30,92	1,4921	293,65
497	5800	0,527	11	99,4	17001	96,83047332	29,88	1,4121	289,85
498	5800	0,485	7	99,4	18999	90,93208805	28,05	1,3190	286,05
499	5800	0,446	3	99,4	21001	82,497368	25,85	1,2360	282,25
500	5800	0,410	-1	99,4	22999	74,58770312	23,90	1,1654	278,15
501	5800	1,013	45	98,8	0	98,05274053	30,97	1,4200	323,05
502	5800	0,908	39	98,8	2999	96,89894867	30,46	1,4178	317,25
503	5800	0,812	33	98,8	5997	94,66854914	29,71	1,4102	311,45
504	5800	0,724	27	98,8	8999	93,27832489	28,67	1,3746	305,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
505	5800	0,644	21	98,8	11998	92,20286456	27,92	1,3816	299,45
506	5800	0,572	15	98,8	15000	92,45222043	27,91	1,4097	293,55
507	5800	0,527	11	98,8	17001	91,58353107	27,28	1,3441	289,65
508	5800	0,485	7	98,8	18999	86,69456254	25,91	1,2626	285,75
509	5800	0,446	3	98,8	21001	79,21299425	24,13	1,1885	281,95
510	5800	0,410	-1	98,8	22999	71,94863045	22,50	1,1245	278,05
511	5800	1,013	45	97,4	0	90,9287066	27,81	1,3383	322,95
512	5800	0,908	39	97,4	2999	88,32349377	26,56	1,3209	317,15
513	5800	0,812	33	97,4	5997	84,54563455	24,94	1,2878	311,25
514	5800	0,724	27	97,4	8999	81,06570498	23,21	1,2278	305,25
515	5800	0,644	21	97,4	11998	78,89343201	22,04	1,2065	299,25
516	5800	0,572	15	97,4	15000	79,80199229	22,04	1,2280	293,35
517	5800	0,527	11	97,4	17001	79,97259423	22,00	1,1939	289,35
518	5800	0,485	7	97,4	18999	77,17422533	21,47	1,1404	285,45
519	5800	0,446	3	97,4	21001	71,89737721	20,56	1,0858	281,45
520	5800	0,410	-1	97,4	22999	66,1116174	19,60	1,0354	277,45
521	5800	1,013	45	94,1	0	73,23486626	21,47	1,1518	322,65
522	5800	0,908	39	94,1	2999	68,23163602	19,44	1,1063	316,75
523	5800	0,812	33	94,1	5997	62,68601322	17,27	1,0404	310,85
524	5800	0,724	27	94,1	8999	57,73794037	15,68	0,9602	304,95
525	5800	0,644	21	94,1	11998	55,5368852	15,13	0,9128	298,95
526	5800	0,572	15	94,1	15000	56,93260538	15,40	0,9189	293,05
527	5800	0,527	11	94,1	17001	58,17329394	15,66	0,9244	289,05
528	5800	0,485	7	94,1	18999	57,96799899	15,75	0,9137	285,05
529	5800	0,446	3	94,1	21001	55,86137716	15,61	0,8873	281,05
530	5800	0,410	-1	94,1	22999	52,50836512	15,30	0,8536	277,05
531	5800	1,013	45	84,5	0	42,76352753	13,57	0,8095	322,25
532	5800	0,908	39	84,5	2999	39,26876254	12,46	0,7494	316,35
533	5800	0,812	33	84,5	5997	36,03457632	11,47	0,6917	310,35
534	5800	0,724	27	84,5	8999	32,27058518	10,57	0,6315	304,55
535	5800	0,644	21	84,5	11998	28,29092436	9,72	0,5686	298,85
536	5800	0,572	15	84,5	15000	24,77794037	8,90	0,5130	293,15
537	5800	0,527	11	84,5	17001	22,76288745	8,38	0,4820	289,25
538	5800	0,485	7	84,5	18999	20,98952103	7,90	0,4550	285,45
539	5800	0,446	3	84,5	21001	19,38280035	7,51	0,4307	281,65
540	5800	0,410	-1	84,5	22999	17,9157934	7,20	0,4096	277,95
541	5800	1,013	45	72	0	23,57752318	9,18	0,6020	322,35
542	5800	0,908	39	72	2999	20,53187491	8,20	0,5393	316,45
543	5800	0,812	33	72	5997	17,60470974	7,32	0,4781	310,55
544	5800	0,724	27	72	8999	14,69592528	6,54	0,4216	304,85
545	5800	0,644	21	72	11998	11,94881875	5,89	0,3715	299,15
546	5800	0,572	15	72	15000	9,258007498	5,36	0,3285	293,05
547	5800	0,527	11	72	17001	7,430842854	5,05	0,3021	288,95
548	5800	0,485	7	72	18999	5,677784822	4,77	0,2777	284,95
549	5800	0,446	3	72	21001	4,101402712	4,53	0,2560	280,85
550	5800	0,410	-1	72	22999	2,841862672	4,36	0,2379	276,75
551	5800	1,013	45	56,5	0	8,975100991	5,91	0,4093	322,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
552	5800	0,908	39	56,5	2999	6,543416158	5,37	0,3582	316,85
553	5800	0,812	33	56,5	5997	4,755490283	5,03	0,3189	310,65
554	5800	0,724	27	56,5	8999	3,12420082	4,81	0,2853	305,05
561	5500	1,013	45	100	0	98,41838316	31,90	1,4192	323,05
562	5500	0,908	39	100	2999	98,69754478	31,92	1,4333	317,35
563	5500	0,812	33	100	5997	98,68810243	32,24	1,4446	311,65
564	5500	0,724	27	100	8999	99,39602095	32,16	1,4365	305,75
565	5500	0,644	21	100	11998	99,70092278	32,25	1,4813	299,75
566	5500	0,572	15	100	15000	99,55479555	32,21	1,5418	293,75
567	5500	0,527	11	100	17001	97,73853698	31,08	1,4494	289,95
568	5500	0,485	7	100	18999	91,33809832	29,04	1,3489	286,15
569	5500	0,446	3	100	21001	82,64640773	26,55	1,2653	282,25
570	5500	0,410	-1	100	22999	74,52207544	24,39	1,1959	278,05
571	5500	1,013	45	99,4	0	95,78981015	30,63	1,3873	323,05
572	5500	0,908	39	99,4	2999	95,38734153	30,26	1,3930	317,35
573	5500	0,812	33	99,4	5997	94,56476209	30,05	1,3928	311,65
574	5500	0,724	27	99,4	8999	94,15940863	29,39	1,3695	305,65
575	5500	0,644	21	99,4	11998	93,51628233	28,84	1,3953	299,65
576	5500	0,572	15	99,4	15000	93,82582233	28,92	1,4566	293,65
577	5500	0,527	11	99,4	17001	92,76712561	28,36	1,3832	289,75
578	5500	0,485	7	99,4	18999	87,44162675	26,88	1,2952	285,85
579	5500	0,446	3	99,4	21001	79,6620116	24,88	1,2206	281,95
580	5500	0,410	-1	99,4	22999	72,20276556	23,03	1,1577	278,05
581	5500	1,013	45	98,8	0	93,05864384	29,33	1,3551	323,05
582	5500	0,908	39	98,8	2999	92,00926255	28,61	1,3535	317,35
583	5500	0,812	33	98,8	5997	90,41517101	27,90	1,3423	311,55
584	5500	0,724	27	98,8	8999	89,00160538	26,79	1,3054	305,55
585	5500	0,644	21	98,8	11998	87,62114952	25,80	1,3142	299,55
586	5500	0,572	15	98,8	15000	88,29213597	25,97	1,3733	293,55
587	5500	0,527	11	98,8	17001	87,8691521	25,82	1,3176	289,55
588	5500	0,485	7	98,8	18999	83,55193312	24,82	1,2429	285,65
589	5500	0,446	3	98,8	21001	76,70207657	23,26	1,1771	281,65
590	5500	0,410	-1	98,8	22999	69,88843166	21,72	1,1203	277,75
591	5500	1,013	45	97,4	0	86,43458825	26,32	1,2798	322,95
592	5500	0,908	39	97,4	2999	84,02165492	24,90	1,2642	317,25
593	5500	0,812	33	97,4	5997	80,85824591	23,29	1,2300	311,45
594	5500	0,724	27	97,4	8999	77,57872629	21,53	1,1681	305,45
595	5500	0,644	21	97,4	11998	75,20692621	20,22	1,1464	299,45
596	5500	0,572	15	97,4	15000	76,40901843	20,45	1,1924	293,45
597	5500	0,527	11	97,4	17001	77,02394778	20,79	1,1717	289,45
598	5500	0,485	7	97,4	18999	74,70922999	20,56	1,1274	285,45
599	5500	0,446	3	97,4	21001	69,92667881	19,83	1,0809	281,35
600	5500	0,410	-1	97,4	22999	64,49182995	18,93	1,0361	277,35
601	5500	1,013	45	94,1	0	70,10823626	20,48	1,1085	322,85
602	5500	0,908	39	94,1	2999	65,48614381	18,47	1,0659	316,95
603	5500	0,812	33	94,1	5997	60,67212085	16,43	1,0037	311,05
604	5500	0,724	27	94,1	8999	56,33329511	15,02	0,9259	305,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
605	5500	0,644	21	94,1	11998	54,42376652	14,63	0,8827	299,05
606	5500	0,572	15	94,1	15000	55,66244868	14,94	0,8988	293,05
607	5500	0,527	11	94,1	17001	56,67473573	15,17	0,9108	289,05
608	5500	0,485	7	94,1	18999	56,36277131	15,22	0,9062	285,05
609	5500	0,446	3	94,1	21001	54,30219299	15,05	0,8850	281,05
610	5500	0,410	-1	94,1	22999	51,02027851	14,71	0,8541	277,05
611	5500	1,013	45	84,5	0	42,81717377	13,47	0,8019	322,45
612	5500	0,908	39	84,5	2999	39,81000943	12,47	0,7460	316,55
613	5500	0,812	33	84,5	5997	36,93324084	11,56	0,6933	310,65
614	5500	0,724	27	84,5	8999	33,46802149	10,72	0,6382	304,65
615	5500	0,644	21	84,5	11998	29,64897151	9,88	0,5776	298,65
616	5500	0,572	15	84,5	15000	25,918178	8,97	0,5204	292,95
617	5500	0,527	11	84,5	17001	23,54257386	8,33	0,4866	289,25
618	5500	0,485	7	84,5	18999	21,36844364	7,74	0,4561	285,45
619	5500	0,446	3	84,5	21001	19,41172683	7,24	0,4285	281,65
620	5500	0,410	-1	84,5	22999	17,6887765	6,85	0,4050	278,05
621	5500	1,013	45	72	0	24,51427885	9,12	0,6117	322,35
622	5500	0,908	39	72	2999	21,724369	8,19	0,5487	316,45
623	5500	0,812	33	72	5997	18,82811458	7,33	0,4850	310,55
624	5500	0,724	27	72	8999	15,8451373	6,56	0,4255	304,65
625	5500	0,644	21	72	11998	13,1384726	5,89	0,3740	298,65
626	5500	0,572	15	72	15000	10,57326868	5,35	0,3308	292,65
627	5500	0,527	11	72	17001	8,827037232	5,03	0,3042	288,65
628	5500	0,485	7	72	18999	7,128032754	4,73	0,2794	284,55
629	5500	0,446	3	72	21001	5,552272968	4,47	0,2569	280,45
630	5500	0,410	-1	72	22999	4,204510159	4,28	0,2374	276,45
631	5500	1,013	45	56,5	0	9,88538465	5,85	0,4121	323,05
632	5500	0,908	39	56,5	2999	7,816877464	5,34	0,3604	316,85
633	5500	0,812	33	56,5	5997	6,072435371	4,99	0,3196	310,85
634	5500	0,724	27	56,5	8999	4,224055686	4,71	0,2833	304,75
635	5500	0,644	21	56,5	11998	2,405498852	4,41	0,2507	298,45
641	5000	1,013	0	100	0	89,47757065	28,12	1,3567	277,45
642	5000	0,908	-6	100	2999	89,50257508	27,58	1,3406	271,65
643	5000	0,812	-12	100	5997	87,71211031	27,20	1,3268	265,95
644	5000	0,724	-18	100	8999	87,17529425	27,31	1,2948	260,05
645	5000	0,644	-24	100	11998	87,05336613	28,05	1,2608	254,25
646	5000	0,572	-30	100	15000	87,28737217	28,42	1,2285	248,25
647	5000	0,527	-34	100	17001	87,31212486	28,46	1,1838	244,25
648	5000	0,485	-38	100	18999	85,85292298	27,98	1,1179	240,25
649	5000	0,446	-42	100	21001	82,24506131	26,99	1,0345	236,35
650	5000	0,410	-46	100	22999	76,76320733	25,71	0,9456	232,45
651	5000	1,013	0	99,4	0	87,32553491	27,02	1,3283	277,45
652	5000	0,908	-6	99,4	2999	86,7328073	26,17	1,3039	271,55
653	5000	0,812	-12	99,4	5997	84,30664315	25,48	1,2810	265,85
654	5000	0,724	-18	99,4	8999	83,17973708	25,32	1,2428	260,05
655	5000	0,644	-24	99,4	11998	82,88172498	25,88	1,2091	254,15
656	5000	0,572	-30	99,4	15000	83,5761789	26,49	1,1838	248,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
657	5000	0,527	-34	99,4	17001	84,0935201	26,78	1,1449	244,15
658	5000	0,485	-38	99,4	18999	83,09396124	26,54	1,0843	240,25
659	5000	0,446	-42	99,4	21001	79,86342383	25,77	1,0051	236,25
660	5000	0,410	-46	99,4	22999	74,68767644	24,64	0,9198	232,35
661	5000	1,013	0	98,8	0	85,13120838	25,92	1,3001	277,35
662	5000	0,908	-6	98,8	2999	83,94646276	24,80	1,2683	271,55
663	5000	0,812	-12	98,8	5997	80,96001825	23,84	1,2362	265,85
664	5000	0,724	-18	98,8	8999	79,29001515	23,45	1,1926	260,05
665	5000	0,644	-24	98,8	11998	78,83784847	23,86	1,1593	254,05
666	5000	0,572	-30	98,8	15000	79,90341175	24,64	1,1396	248,15
667	5000	0,527	-34	98,8	17001	80,79088626	25,09	1,1059	244,15
668	5000	0,485	-38	98,8	18999	80,15420051	25,05	1,0500	240,15
669	5000	0,446	-42	98,8	21001	77,26127933	24,46	0,9752	236,15
670	5000	0,410	-46	98,8	22999	72,40768861	23,49	0,8934	232,25
671	5000	1,013	0	97,4	0	79,93779413	23,44	1,2349	277,35
672	5000	0,908	-6	97,4	2999	77,5149956	21,84	1,1888	271,55
673	5000	0,812	-12	97,4	5997	73,49683679	20,44	1,1371	265,75
674	5000	0,724	-18	97,4	8999	70,76934254	19,69	1,0834	259,95
675	5000	0,644	-24	97,4	11998	70,04025507	19,86	1,0516	253,95
676	5000	0,572	-30	97,4	15000	71,63842789	20,76	1,0406	248,05
677	5000	0,527	-34	97,4	17001	72,97537457	21,38	1,0159	244,05
678	5000	0,485	-38	97,4	18999	72,85445044	21,60	0,9694	240,05
679	5000	0,446	-42	97,4	21001	70,60089247	21,34	0,9041	236,05
680	5000	0,410	-46	97,4	22999	66,51691313	20,72	0,8311	232,05
681	5000	1,013	0	94,1	0	67,4075405	18,84	1,0892	277,15
682	5000	0,908	-6	94,1	2999	63,32888508	17,08	1,0232	271,35
683	5000	0,812	-12	94,1	5997	58,24961885	15,65	0,9477	265,45
684	5000	0,724	-18	94,1	8999	54,45282373	15,01	0,8867	259,65
685	5000	0,644	-24	94,1	11998	53,45107139	15,18	0,8576	253,75
686	5000	0,572	-30	94,1	15000	54,64427255	15,65	0,8468	247,75
687	5000	0,527	-34	94,1	17001	55,46988751	15,88	0,8285	243,85
688	5000	0,485	-38	94,1	18999	55,31869213	15,93	0,7939	239,85
689	5000	0,446	-42	94,1	21001	53,84042535	15,80	0,7454	235,85
690	5000	0,410	-46	94,1	22999	51,23057181	15,50	0,6910	231,85
691	5000	1,013	0	84,5	0	46,13622523	13,48	0,8466	276,95
692	5000	0,908	-6	84,5	2999	43,65374982	12,67	0,7960	271,05
693	5000	0,812	-12	84,5	5997	40,20111643	11,92	0,7409	265,15
694	5000	0,724	-18	84,5	8999	36,50293645	11,23	0,6813	259,25
695	5000	0,644	-24	84,5	11998	33,2336287	10,50	0,6192	253,35
696	5000	0,572	-30	84,5	15000	29,95794646	9,59	0,5584	247,45
697	5000	0,527	-34	84,5	17001	27,67819317	8,92	0,5192	243,55
698	5000	0,485	-38	84,5	18999	25,51691479	8,30	0,4822	239,75
699	5000	0,446	-42	84,5	21001	23,55465742	7,78	0,4481	236,05
700	5000	0,410	-46	84,5	22999	21,79458101	7,38	0,4176	232,45
701	5000	1,013	0	72	0	27,89611901	9,55	0,6427	276,95
702	5000	0,908	-6	72	2999	25,84410765	8,83	0,5871	270,95
703	5000	0,812	-12	72	5997	23,23250074	8,11	0,5333	264,95

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
704	5000	0,724	-18	72	8999	20,29601285	7,41	0,4784	258,95
705	5000	0,644	-24	72	11998	17,51668512	6,76	0,4240	252,95
706	5000	0,572	-30	72	15000	14,83250249	6,18	0,3738	246,85
707	5000	0,527	-34	72	17001	13,02712121	5,83	0,3436	242,95
708	5000	0,485	-38	72	18999	11,31960703	5,50	0,3179	238,95
709	5000	0,446	-42	72	21001	9,802504931	5,23	0,2975	234,95
710	5000	0,410	-46	72	22999	8,526813227	5,01	0,2819	230,95
711	5000	1,013	0	56,5	0	11,47128059	5,76	0,4057	277,75
712	5000	0,908	-6	56,5	2999	9,85432597	5,32	0,3643	271,55
713	5000	0,812	-12	56,5	5997	8,194115609	4,99	0,3298	265,55
714	5000	0,724	-18	56,5	8999	6,248522748	4,67	0,2971	259,45
715	5000	0,644	-24	56,5	11998	4,558297746	4,34	0,2694	253,45
716	5000	0,572	-30	56,5	15000	3,398651496	4,09	0,2505	247,05
717	5000	0,527	-34	56,5	17001	2,911278441	3,99	0,2431	243,15
718	5000	0,485	-38	56,5	18999	2,636199421	3,96	0,2398	239,35
719	5000	0,446	-42	56,5	21001	2,546724055	3,98	0,2405	235,35
720	5000	0,410	-46	56,5	22999	2,60222554	4,05	0,2438	231,25
721	4500	1,013	0	100	0	76,7040696	23,40	1,3278	277,55
722	4500	0,908	-6	100	2999	75,59509786	22,58	1,2976	271,75
723	4500	0,812	-12	100	5997	72,5860338	21,93	1,2358	265,85
724	4500	0,724	-18	100	8999	71,17555322	22,07	1,1578	259,95
725	4500	0,644	-24	100	11998	69,7089125	22,29	1,0661	254,05
726	4500	0,572	-30	100	15000	67,20836699	21,83	0,9685	247,85
727	4500	0,527	-34	100	17001	65,26387332	21,23	0,8900	243,75
728	4500	0,485	-38	100	18999	62,70991006	20,38	0,8034	239,75
729	4500	0,446	-42	100	21001	59,32587892	19,33	0,7168	235,75
730	4500	0,410	-46	100	22999	55,31063268	18,22	0,6405	231,75
731	4500	1,013	0	99,4	0	75,12500458	22,53	1,3080	277,45
732	4500	0,908	-6	99,4	2999	73,58899221	21,48	1,2710	271,65
733	4500	0,812	-12	99,4	5997	70,20799125	20,65	1,2039	265,75
734	4500	0,724	-18	99,4	8999	68,51744111	20,65	1,1244	259,85
735	4500	0,644	-24	99,4	11998	67,02589524	20,85	1,0353	254,05
736	4500	0,572	-30	99,4	15000	64,83594995	20,59	0,9424	247,85
737	4500	0,527	-34	99,4	17001	63,18664153	20,17	0,8671	243,75
738	4500	0,485	-38	99,4	18999	60,90927022	19,50	0,7832	239,75
739	4500	0,446	-42	99,4	21001	57,74892079	18,58	0,6987	235,75
740	4500	0,410	-46	99,4	22999	53,90431466	17,55	0,6241	231,65
741	4500	1,013	0	98,8	0	73,53280127	21,69	1,2875	277,45
742	4500	0,908	-6	98,8	2999	71,60076119	20,46	1,2446	271,65
743	4500	0,812	-12	98,8	5997	67,92113536	19,48	1,1729	265,75
744	4500	0,724	-18	98,8	8999	65,95078255	19,34	1,0925	259,85
745	4500	0,644	-24	98,8	11998	64,40609623	19,49	1,0063	254,05
746	4500	0,572	-30	98,8	15000	62,48793675	19,38	0,9179	247,85
747	4500	0,527	-34	98,8	17001	61,09346638	19,11	0,8457	243,75
748	4500	0,485	-38	98,8	18999	59,06303088	18,59	0,7644	239,75
749	4500	0,446	-42	98,8	21001	56,11786102	17,80	0,6822	235,75
750	4500	0,410	-46	98,8	22999	52,4510936	16,88	0,6091	231,65

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
751	4500	1,013	0	97,4	0	69,82491062	19,88	1,2378	277,45
752	4500	0,908	-6	97,4	2999	67,11210705	18,39	1,1843	271,55
753	4500	0,812	-12	97,4	5997	62,97116225	17,20	1,1042	265,65
754	4500	0,724	-18	97,4	8999	60,37935842	16,77	1,0238	259,75
755	4500	0,644	-24	97,4	11998	58,63747225	16,76	0,9457	253,95
756	4500	0,572	-30	97,4	15000	57,18958915	16,82	0,8666	247,85
757	4500	0,527	-34	97,4	17001	56,22840053	16,77	0,8007	243,75
758	4500	0,485	-38	97,4	18999	54,65121273	16,50	0,7256	239,75
759	4500	0,446	-42	97,4	21001	52,15919465	15,99	0,6484	235,75
760	4500	0,410	-46	97,4	22999	48,91772698	15,31	0,5790	231,65
761	4500	1,013	0	94,1	0	60,92187446	16,73	1,1178	277,35
762	4500	0,908	-6	94,1	2999	57,41331739	15,36	1,0531	271,45
763	4500	0,812	-12	94,1	5997	52,98252546	14,33	0,9693	265,55
764	4500	0,724	-18	94,1	8999	49,45404835	13,73	0,8960	259,55
765	4500	0,644	-24	94,1	11998	47,25784009	13,46	0,8339	253,75
766	4500	0,572	-30	94,1	15000	45,94201415	13,29	0,7688	247,75
767	4500	0,527	-34	94,1	17001	45,11449881	13,14	0,7137	243,75
768	4500	0,485	-38	94,1	18999	43,89003142	12,92	0,6506	239,85
769	4500	0,446	-42	94,1	21001	42,06260031	12,61	0,5849	235,85
770	4500	0,410	-46	94,1	22999	39,69835609	12,23	0,5242	231,85
771	4500	1,013	0	84,5	0	44,9584779	12,86	0,8969	277,05
772	4500	0,908	-6	84,5	2999	42,57384941	12,08	0,8523	271,25
773	4500	0,812	-12	84,5	5997	38,8642317	11,29	0,7930	265,35
774	4500	0,724	-18	84,5	8999	34,99534968	10,52	0,7230	259,45
775	4500	0,644	-24	84,5	11998	31,68753056	9,70	0,6465	253,65
776	4500	0,572	-30	84,5	15000	28,28897534	8,73	0,5698	247,95
777	4500	0,527	-34	84,5	17001	25,88639773	8,05	0,5196	244,05
778	4500	0,485	-38	84,5	18999	23,60557938	7,42	0,4725	240,15
779	4500	0,446	-42	84,5	21001	21,56039546	6,91	0,4294	236,45
780	4500	0,410	-46	84,5	22999	19,76329377	6,50	0,3917	232,85
781	4500	1,013	0	72	0	29,31716411	9,41	0,7038	276,95
782	4500	0,908	-6	72	2999	27,56833578	8,76	0,6520	271,05
783	4500	0,812	-12	72	5997	24,65543203	8,06	0,5904	265,05
784	4500	0,724	-18	72	8999	21,22377992	7,34	0,5247	259,25
785	4500	0,644	-24	72	11998	18,08460382	6,66	0,4608	253,35
786	4500	0,572	-30	72	15000	15,31533494	6,07	0,4026	247,35
787	4500	0,527	-34	72	17001	13,56607787	5,70	0,3674	243,35
788	4500	0,485	-38	72	18999	11,94784652	5,38	0,3370	239,25
789	4500	0,446	-42	72	21001	10,51281643	5,11	0,3122	235,25
790	4500	0,410	-46	72	22999	9,290589153	4,89	0,2928	231,25
791	4500	1,013	0	56,5	0	13,49858518	5,82	0,4504	277,25
792	4500	0,908	-6	56,5	2999	12,12866912	5,35	0,4115	271,25
793	4500	0,812	-12	56,5	5997	10,3487112	4,95	0,3747	265,15
794	4500	0,724	-18	56,5	8999	8,157193288	4,54	0,3358	259,25
795	4500	0,644	-24	56,5	11998	6,189737063	4,15	0,2997	253,25
796	4500	0,572	-30	56,5	15000	4,765045016	3,83	0,2728	247,35
797	4500	0,527	-34	56,5	17001	4,117158973	3,70	0,2607	243,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
798	4500	0,485	-38	56,5	18999	3,69718313	3,63	0,2536	239,45
799	4500	0,446	-42	56,5	21001	3,478920226	3,62	0,2512	235,45
800	4500	0,410	-46	56,5	22999	3,425388741	3,67	0,2522	231,45
801	5000	1,013	15	100	0	88,78228746	27,96	1,3732	292,45
802	5000	0,908	9	100	2999	89,18342243	27,33	1,3745	286,65
803	5000	0,812	3	100	5997	87,5956436	26,99	1,3443	280,85
804	5000	0,724	-3	100	8999	87,1379527	27,13	1,3167	275,05
805	5000	0,644	-9	100	11998	87,09402333	27,89	1,2676	269,15
806	5000	0,572	-15	100	15000	87,2045171	28,11	1,2635	263,35
807	5000	0,527	-19	100	17001	87,39373279	27,99	1,2474	259,35
808	5000	0,485	-23	100	18999	86,24107427	27,29	1,2126	255,45
809	5000	0,446	-27	100	21001	82,99936005	26,09	1,1561	251,55
810	5000	0,410	-31	100	22999	77,43286348	24,65	1,0757	247,65
811	5000	1,013	15	99,4	0	86,59530123	26,86	1,3446	292,45
812	5000	0,908	9	99,4	2999	86,36409181	25,92	1,3380	286,65
813	5000	0,812	3	99,4	5997	84,15082838	25,24	1,2976	280,85
814	5000	0,724	-3	99,4	8999	83,04577355	25,05	1,2610	275,05
815	5000	0,644	-9	99,4	11998	82,71810566	25,56	1,2112	269,15
816	5000	0,572	-15	99,4	15000	83,29333665	26,04	1,2127	263,25
817	5000	0,527	-19	99,4	17001	84,05031069	26,21	1,2036	259,35
818	5000	0,485	-23	99,4	18999	83,42137458	25,81	1,1752	255,35
819	5000	0,446	-27	99,4	21001	80,56491394	24,84	1,1235	251,35
820	5000	0,410	-31	99,4	22999	75,31665877	23,58	1,0472	247,45
821	5000	1,013	15	98,8	0	84,36614695	25,76	1,3156	292,35
822	5000	0,908	9	98,8	2999	83,52486879	24,55	1,3020	286,55
823	5000	0,812	3	98,8	5997	80,76674419	23,57	1,2524	280,85
824	5000	0,724	-3	98,8	8999	79,07698553	23,11	1,2076	274,95
825	5000	0,644	-9	98,8	11998	78,50862615	23,42	1,1585	269,05
826	5000	0,572	-15	98,8	15000	79,45906122	24,07	1,1641	263,25
827	5000	0,527	-19	98,8	17001	80,62568264	24,44	1,1605	259,25
828	5000	0,485	-23	98,8	18999	80,38528476	24,27	1,1371	255,35
829	5000	0,446	-27	98,8	21001	77,85127494	23,53	1,0896	251,35
830	5000	0,410	-31	98,8	22999	72,93529083	22,44	1,0171	247,35
831	5000	1,013	15	97,4	0	79,08495669	23,28	1,2473	292,35
832	5000	0,908	9	97,4	2999	76,95267314	21,60	1,2205	286,55
833	5000	0,812	3	97,4	5997	73,22081592	20,12	1,1534	280,75
834	5000	0,724	-3	97,4	8999	70,4409981	19,24	1,0936	274,85
835	5000	0,644	-9	97,4	11998	69,48065396	19,23	1,0492	268,95
836	5000	0,572	-15	97,4	15000	70,96541698	20,03	1,0596	263,15
837	5000	0,527	-19	97,4	17001	72,5606579	20,59	1,0638	259,15
838	5000	0,485	-23	97,4	18999	72,78775598	20,75	1,0478	255,25
839	5000	0,446	-27	97,4	21001	70,79672196	20,40	1,0071	251,15
840	5000	0,410	-31	97,4	22999	66,66180045	19,71	0,9430	247,15
841	5000	1,013	15	94,1	0	66,2734765	18,70	1,0910	292,25
842	5000	0,908	9	94,1	2999	62,35147164	16,90	1,0415	286,25
843	5000	0,812	3	94,1	5997	57,79882968	15,38	0,9625	280,45
844	5000	0,724	-3	94,1	8999	54,23631209	14,65	0,8955	274,65

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
845	5000	0,644	-9	94,1	11998	53,19212202	14,74	0,8652	268,75
846	5000	0,572	-15	94,1	15000	54,16372187	15,12	0,8698	262,95
847	5000	0,527	-19	94,1	17001	54,91221175	15,28	0,8704	259,05
848	5000	0,485	-23	94,1	18999	54,76039343	15,27	0,8549	255,05
849	5000	0,446	-27	94,1	21001	53,26698946	15,09	0,8206	251,05
850	5000	0,410	-31	94,1	22999	50,57453866	14,75	0,7710	246,95
851	5000	1,013	15	84,5	0	45,02413194	13,37	0,8337	292,05
852	5000	0,908	9	84,5	2999	42,74346241	12,53	0,7872	286,05
853	5000	0,812	3	84,5	5997	39,70287382	11,76	0,7396	280,15
854	5000	0,724	-3	84,5	8999	36,23530804	11,05	0,6883	274,35
855	5000	0,644	-9	84,5	11998	32,98956875	10,30	0,6321	268,55
856	5000	0,572	-15	84,5	15000	29,46140108	9,34	0,5722	262,65
857	5000	0,527	-19	84,5	17001	26,87168897	8,62	0,5319	258,85
858	5000	0,485	-23	84,5	18999	24,42568862	7,95	0,4938	255,15
859	5000	0,446	-27	84,5	21001	22,24285619	7,39	0,4587	251,35
860	5000	0,410	-31	84,5	22999	20,35436831	6,97	0,4270	247,65
861	5000	1,013	15	72	0	27,27736892	9,37	0,6409	292,05
862	5000	0,908	9	72	2999	25,17899793	8,61	0,5807	286,15
863	5000	0,812	3	72	5997	22,46145909	7,87	0,5219	280,15
864	5000	0,724	-3	72	8999	19,3883518	7,14	0,4659	274,15
865	5000	0,644	-9	72	11998	16,60252882	6,48	0,4131	268,25
866	5000	0,572	-15	72	15000	13,98458562	5,90	0,3641	262,15
867	5000	0,527	-19	72	17001	12,20222922	5,55	0,3332	258,05
868	5000	0,485	-23	72	18999	10,47766046	5,23	0,3056	253,95
869	5000	0,446	-27	72	21001	8,905829888	4,95	0,2824	249,85
870	5000	0,410	-31	72	22999	7,573672086	4,73	0,2643	245,85
871	5000	1,013	15	56,5	0	11,38052418	5,77	0,4067	292,65
872	5000	0,908	9	56,5	2999	9,852561529	5,32	0,3646	286,75
873	5000	0,812	3	56,5	5997	8,198295674	4,98	0,3294	280,75
874	5000	0,724	-3	56,5	8999	6,110039408	4,62	0,2933	274,65
875	5000	0,644	-9	56,5	11998	4,203131057	4,26	0,2603	268,55
876	5000	0,572	-15	56,5	15000	2,85639003	3,98	0,2362	262,45
877	5000	0,527	-19	56,5	17001	2,279883894	3,86	0,2254	258,45
881	4500	1,013	15	100	0	75,88077096	23,23	1,3379	292,55
882	4500	0,908	9	100	2999	75,1459467	22,36	1,3284	286,75
883	4500	0,812	3	100	5997	72,40820493	21,67	1,2787	280,95
884	4500	0,724	-3	100	8999	71,24751819	21,80	1,2167	275,15
885	4500	0,644	-9	100	11998	69,57910159	21,99	1,1241	269,15
886	4500	0,572	-15	100	15000	66,35412514	21,44	1,0400	263,05
887	4500	0,527	-19	100	17001	64,36526969	20,80	0,9812	258,95
888	4500	0,485	-23	100	18999	62,00283831	19,93	0,9107	254,95
889	4500	0,446	-27	100	21001	58,75061372	18,81	0,8288	250,95
890	4500	0,410	-31	100	22999	54,65133026	17,60	0,7440	246,85
891	4500	1,013	15	99,4	0	74,25550011	22,36	1,3173	292,55
892	4500	0,908	9	99,4	2999	73,08079908	21,25	1,3013	286,65
893	4500	0,812	3	99,4	5997	69,99584846	20,37	1,2446	280,85
894	4500	0,724	-3	99,4	8999	68,54455082	20,34	1,1802	275,05

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
895	4500	0,644	-9	99,4	11998	66,82674388	20,49	1,0905	269,15
896	4500	0,572	-15	99,4	15000	63,96514948	20,15	1,0125	263,05
897	4500	0,527	-19	99,4	17001	62,32347586	19,73	0,9577	258,95
898	4500	0,485	-23	99,4	18999	60,27341579	19,05	0,8903	254,95
899	4500	0,446	-27	99,4	21001	57,24915303	18,08	0,8108	250,95
900	4500	0,410	-31	99,4	22999	53,30781811	16,95	0,7277	246,85
901	4500	1,013	15	98,8	0	72,61761135	21,52	1,2958	292,45
902	4500	0,908	9	98,8	2999	71,03046021	20,22	1,2741	286,65
903	4500	0,812	3	98,8	5997	67,6740361	19,18	1,2114	280,85
904	4500	0,724	-3	98,8	8999	65,93202951	18,99	1,1449	275,05
905	4500	0,644	-9	98,8	11998	64,14254188	19,08	1,0593	269,15
906	4500	0,572	-15	98,8	15000	61,6108837	18,91	0,9874	263,05
907	4500	0,527	-19	98,8	17001	60,25628037	18,65	0,9361	258,95
908	4500	0,485	-23	98,8	18999	58,46751229	18,13	0,8714	254,95
909	4500	0,446	-27	98,8	21001	55,65597203	17,30	0,7940	250,95
910	4500	0,410	-31	98,8	22999	51,88745375	16,28	0,7127	246,85
911	4500	1,013	15	97,4	0	68,79866296	19,71	1,2430	292,45
912	4500	0,908	9	97,4	2999	66,38471156	18,15	1,2110	286,55
913	4500	0,812	3	97,4	5997	62,64358081	16,89	1,1376	280,75
914	4500	0,724	-3	97,4	8999	60,26492818	16,38	1,0684	274,95
915	4500	0,644	-9	97,4	11998	58,26120755	16,28	0,9947	269,05
916	4500	0,572	-15	97,4	15000	56,33536046	16,30	0,9360	263,05
917	4500	0,527	-19	97,4	17001	55,42371492	16,24	0,8909	259,05
918	4500	0,485	-23	97,4	18999	54,05532375	15,98	0,8312	255,05
919	4500	0,446	-27	97,4	21001	51,669736	15,43	0,7586	250,95
920	4500	0,410	-31	97,4	22999	48,33351372	14,70	0,6815	246,85
921	4500	1,013	15	94,1	0	59,6087422	16,57	1,1143	292,35
922	4500	0,908	9	94,1	2999	56,27021161	15,16	1,0687	286,45
923	4500	0,812	3	94,1	5997	52,51382089	14,08	0,9913	280,55
924	4500	0,724	-3	94,1	8999	49,32010783	13,43	0,9258	274,75
925	4500	0,644	-9	94,1	11998	46,97869456	13,09	0,8765	268,85
926	4500	0,572	-15	94,1	15000	45,30404938	12,85	0,8353	262,95
927	4500	0,527	-19	94,1	17001	44,33466628	12,66	0,7967	259,05
928	4500	0,485	-23	94,1	18999	43,06885275	12,39	0,7443	255,25
929	4500	0,446	-27	94,1	21001	41,21285657	12,04	0,6816	251,25
930	4500	0,410	-31	94,1	22999	38,78205258	11,64	0,6150	247,15
931	4500	1,013	15	84,5	0	43,80340362	12,74	0,8834	292,15
932	4500	0,908	9	84,5	2999	41,72365156	11,94	0,8457	286,25
933	4500	0,812	3	84,5	5997	38,55517552	11,12	0,7952	280,45
934	4500	0,724	-3	84,5	8999	34,90489373	10,32	0,7347	274,65
935	4500	0,644	-9	84,5	11998	31,39681495	9,46	0,6657	268,85
936	4500	0,572	-15	84,5	15000	27,6639819	8,45	0,5928	263,05
937	4500	0,527	-19	84,5	17001	24,98281403	7,73	0,5436	259,25
938	4500	0,485	-23	84,5	18999	22,44188021	7,07	0,4966	255,65
939	4500	0,446	-27	84,5	21001	20,19421994	6,52	0,4529	252,05
940	4500	0,410	-31	84,5	22999	18,28651859	6,09	0,4133	248,55
941	4500	1,013	15	72	0	28,60320105	9,22	0,7024	291,85

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
942	4500	0,908	9	72	2999	26,86135552	8,54	0,6476	285,85
943	4500	0,812	3	72	5997	23,93512245	7,82	0,5822	280,05
944	4500	0,724	-3	72	8999	20,38608755	7,09	0,5151	274,25
945	4500	0,644	-9	72	11998	17,20231786	6,41	0,4530	268,25
946	4500	0,572	-15	72	15000	14,47382762	5,82	0,3968	262,25
947	4500	0,527	-19	72	17001	12,75094847	5,46	0,3616	258,25
948	4500	0,485	-23	72	18999	11,13216822	5,14	0,3298	254,25
949	4500	0,446	-27	72	21001	9,664940782	4,87	0,3025	250,25
950	4500	0,410	-31	72	22999	8,404590272	4,65	0,2804	246,35
951	4500	1,013	15	56,5	0	13,21006044	5,82	0,4509	292,05
952	4500	0,908	9	56,5	2999	11,88862088	5,34	0,4105	286,05
953	4500	0,812	3	56,5	5997	10,14628622	4,93	0,3728	280,15
954	4500	0,724	-3	56,5	8999	7,885210941	4,50	0,3316	274,25
955	4500	0,644	-9	56,5	11998	5,772324372	4,07	0,2912	268,15
956	4500	0,572	-15	56,5	15000	4,207567412	3,72	0,2592	262,25
957	4500	0,527	-19	56,5	17001	3,491924153	3,56	0,2436	258,35
958	4500	0,485	-23	56,5	18999	3,016142102	3,48	0,2332	254,35
959	4500	0,446	-27	56,5	21001	2,741194463	3,47	0,2276	250,35
960	4500	0,410	-31	56,5	22999	2,645439616	3,51	0,2263	246,45
961	5000	1,013	30	100	0	87,8455052	27,80	1,3669	307,45
962	5000	0,908	24	100	2999	88,08636848	27,12	1,3966	301,65
963	5000	0,812	18	100	5997	87,35600131	26,87	1,3644	296,05
964	5000	0,724	12	100	8999	87,13295007	27,01	1,3537	290,15
965	5000	0,644	6	100	11998	86,99739162	27,72	1,3379	284,25
966	5000	0,572	0	100	15000	86,47079903	27,80	1,3078	278,25
967	5000	0,527	-4	100	17001	86,04707138	27,44	1,2815	274,25
968	5000	0,485	-8	100	18999	84,19516348	26,48	1,2460	270,35
969	5000	0,446	-12	100	21001	80,53773023	25,01	1,2001	266,55
970	5000	0,410	-16	100	22999	74,98497277	23,39	1,1415	262,75
971	5000	1,013	30	99,4	0	85,6447943	26,70	1,3384	307,45
972	5000	0,908	24	99,4	2999	85,30546908	25,73	1,3601	301,65
973	5000	0,812	18	99,4	5997	83,9257225	25,10	1,3187	295,95
974	5000	0,724	12	99,4	8999	83,0246585	24,87	1,2968	290,15
975	5000	0,644	6	99,4	11998	82,54183478	25,27	1,2770	284,25
976	5000	0,572	0	99,4	15000	82,48659622	25,61	1,2545	278,25
977	5000	0,527	-4	99,4	17001	82,66809286	25,58	1,2363	274,25
978	5000	0,485	-8	99,4	18999	81,41138706	24,96	1,2081	270,25
979	5000	0,446	-12	99,4	21001	78,16152804	23,77	1,1675	266,35
980	5000	0,410	-16	99,4	22999	72,89772086	22,33	1,1127	262,65
981	5000	1,013	30	98,8	0	83,39927279	25,61	1,3093	307,45
982	5000	0,908	24	98,8	2999	82,50210033	24,37	1,3234	301,65
983	5000	0,812	18	98,8	5997	80,53932662	23,41	1,2744	295,85
984	5000	0,724	12	98,8	8999	79,02729096	22,88	1,2418	290,05
985	5000	0,644	6	98,8	11998	78,24804146	23,03	1,2188	284,15
986	5000	0,572	0	98,8	15000	78,57926351	23,53	1,2033	278,15
987	5000	0,527	-4	98,8	17001	79,20948635	23,74	1,1920	274,15
988	5000	0,485	-8	98,8	18999	78,40903882	23,39	1,1700	270,25

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
989	5000	0,446	-12	98,8	21001	75,50819328	22,46	1,1339	266,35
990	5000	0,410	-16	98,8	22999	70,55159354	21,22	1,0822	262,45
991	5000	1,013	30	97,4	0	78,06977483	23,14	1,2403	307,45
992	5000	0,908	24	97,4	2999	75,98846447	21,44	1,2379	301,65
993	5000	0,812	18	97,4	5997	72,937011	19,93	1,1767	295,85
994	5000	0,724	12	97,4	8999	70,303291	18,92	1,1232	290,05
995	5000	0,644	6	97,4	11998	69,05156064	18,71	1,0951	284,05
996	5000	0,572	0	97,4	15000	69,95386126	19,33	1,0932	278,05
997	5000	0,527	-4	97,4	17001	71,09693931	19,79	1,0936	274,05
998	5000	0,485	-8	97,4	18999	70,89722222	19,83	1,0818	270,15
999	5000	0,446	-12	97,4	21001	68,60611578	19,37	1,0528	266,15
1000	5000	0,410	-16	97,4	22999	64,3820729	18,57	1,0065	262,35
1001	5000	1,013	30	94,1	0	65,08562016	18,59	1,0815	307,35
1002	5000	0,908	24	94,1	2999	61,24388095	16,76	1,0470	301,45
1003	5000	0,812	18	94,1	5997	57,28508179	15,19	0,9804	295,55
1004	5000	0,724	12	94,1	8999	54,0552535	14,36	0,9148	289,65
1005	5000	0,644	6	94,1	11998	52,93221787	14,34	0,8886	283,85
1006	5000	0,572	0	94,1	15000	53,41534051	14,60	0,8946	277,95
1007	5000	0,527	-4	94,1	17001	53,73475572	14,67	0,8985	273,95
1008	5000	0,485	-8	94,1	18999	53,25604184	14,59	0,8902	270,05
1009	5000	0,446	-12	94,1	21001	51,53874775	14,34	0,8653	266,05
1010	5000	0,410	-16	94,1	22999	48,70159343	13,96	0,8254	262,15
1011	5000	1,013	30	84,5	0	43,78631555	13,26	0,8201	307,15
1012	5000	0,908	24	84,5	2999	41,54775693	12,40	0,7747	301,15
1013	5000	0,812	18	84,5	5997	38,81908735	11,60	0,7300	295,35
1014	5000	0,724	12	84,5	8999	35,52712472	10,85	0,6823	289,35
1015	5000	0,644	6	84,5	11998	32,20599384	10,07	0,6292	283,55
1016	5000	0,572	0	84,5	15000	28,52371306	9,08	0,5720	277,85
1017	5000	0,527	-4	84,5	17001	25,72560773	8,32	0,5314	274,15
1018	5000	0,485	-8	84,5	18999	23,07016447	7,62	0,4927	270,35
1019	5000	0,446	-12	84,5	21001	20,70999362	7,02	0,4576	266,65
1020	5000	0,410	-16	84,5	22999	18,69354575	6,57	0,4266	263,05
1021	5000	1,013	30	72	0	26,67100409	9,20	0,6422	307,35
1022	5000	0,908	24	72	2999	24,48946576	8,40	0,5805	301,35
1023	5000	0,812	18	72	5997	21,66020777	7,63	0,5153	295,35
1024	5000	0,724	12	72	8999	18,44299269	6,88	0,4543	289,35
1025	5000	0,644	6	72	11998	15,61827025	6,21	0,4015	283,45
1026	5000	0,572	0	72	15000	13,06825175	5,63	0,3550	277,35
1027	5000	0,527	-4	72	17001	11,34348916	5,28	0,3253	273,35
1028	5000	0,485	-8	72	18999	9,652894209	4,97	0,2975	269,25
1029	5000	0,446	-12	72	21001	8,078147555	4,69	0,2729	265,25
1030	5000	0,410	-16	72	22999	6,710956582	4,48	0,2526	261,05
1031	5000	1,013	30	56,5	0	11,40081534	5,81	0,4155	307,65
1032	5000	0,908	24	56,5	2999	9,879525894	5,34	0,3693	301,65
1033	5000	0,812	18	56,5	5997	8,207240852	4,97	0,3311	295,65
1034	5000	0,724	12	56,5	8999	6,058665678	4,60	0,2927	289,65
1035	5000	0,644	6	56,5	11998	3,992111734	4,21	0,2565	283,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1036	5000	0,572	0	56,5	15000	2,471512807	3,89	0,2288	277,75
1041	4500	1,013	30	100	0	74,71846146	23,08	1,3146	307,55
1042	4500	0,908	24	100	2999	74,07740242	22,18	1,3414	301,75
1043	4500	0,812	18	100	5997	72,12826205	21,50	1,3110	295,95
1044	4500	0,724	12	100	8999	71,26770196	21,59	1,2766	290,15
1045	4500	0,644	6	100	11998	69,10183986	21,67	1,2021	284,25
1046	4500	0,572	0	100	15000	64,69402565	21,00	1,1086	278,15
1047	4500	0,527	-4	100	17001	62,43527146	20,33	1,0548	274,15
1048	4500	0,485	-8	100	18999	60,20084707	19,45	0,9995	270,15
1049	4500	0,446	-12	100	21001	57,10031555	18,29	0,9352	266,05
1050	4500	0,410	-16	100	22999	52,95863446	16,99	0,8600	262,05
1051	4500	1,013	30	99,4	0	73,06366661	22,21	1,2934	307,45
1052	4500	0,908	24	99,4	2999	72,01241403	21,07	1,3138	301,65
1053	4500	0,812	18	99,4	5997	69,71443158	20,19	1,2766	295,95
1054	4500	0,724	12	99,4	8999	68,53715287	20,09	1,2373	290,15
1055	4500	0,644	6	99,4	11998	66,30058976	20,12	1,1645	284,25
1056	4500	0,572	0	99,4	15000	62,32185788	19,69	1,0792	278,15
1057	4500	0,527	-4	99,4	17001	60,47152958	19,25	1,0313	274,15
1058	4500	0,485	-8	99,4	18999	58,60189607	18,58	0,9802	270,15
1059	4500	0,446	-12	99,4	21001	55,72877895	17,57	0,9182	266,05
1060	4500	0,410	-16	99,4	22999	51,71199179	16,36	0,8445	262,05
1061	4500	1,013	30	98,8	0	71,3981489	21,37	1,2710	307,45
1062	4500	0,908	24	98,8	2999	69,96085208	20,05	1,2854	301,65
1063	4500	0,812	18	98,8	5997	67,37595442	18,99	1,2423	295,85
1064	4500	0,724	12	98,8	8999	65,88325946	18,72	1,1982	290,05
1065	4500	0,644	6	98,8	11998	63,57254	18,69	1,1278	284,15
1066	4500	0,572	0	98,8	15000	60,00493494	18,42	1,0513	278,15
1067	4500	0,527	-4	98,8	17001	58,47813137	18,15	1,0089	274,15
1068	4500	0,485	-8	98,8	18999	56,88421403	17,64	0,9615	270,15
1069	4500	0,446	-12	98,8	21001	54,21287662	16,78	0,9015	266,05
1070	4500	0,410	-16	98,8	22999	50,35170938	15,68	0,8292	262,05
1071	4500	1,013	30	97,4	0	67,51919987	19,57	1,2159	307,35
1072	4500	0,908	24	97,4	2999	65,29307321	17,99	1,2174	301,55
1073	4500	0,812	18	97,4	5997	62,25789426	16,69	1,1636	295,75
1074	4500	0,724	12	97,4	8999	60,09069276	16,07	1,1098	289,95
1075	4500	0,644	6	97,4	11998	57,61875427	15,85	1,0474	284,05
1076	4500	0,572	0	97,4	15000	54,87442317	15,77	0,9915	278,15
1077	4500	0,527	-4	97,4	17001	53,80179874	15,70	0,9597	274,25
1078	4500	0,485	-8	97,4	18999	52,55745617	15,43	0,9187	270,15
1079	4500	0,446	-12	97,4	21001	50,2560593	14,86	0,8625	266,15
1080	4500	0,410	-16	97,4	22999	46,82861658	14,06	0,7936	262,05
1081	4500	1,013	30	94,1	0	58,16037817	16,45	1,0834	307,25
1082	4500	0,908	24	94,1	2999	54,91490028	15,00	1,0601	301,35
1083	4500	0,812	18	94,1	5997	51,82321429	13,88	0,9994	295,65
1084	4500	0,724	12	94,1	8999	48,97643708	13,16	0,9400	289,85
1085	4500	0,644	6	94,1	11998	46,43580979	12,74	0,8968	283,95
1086	4500	0,572	0	94,1	15000	44,26646756	12,42	0,8685	278,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1087	4500	0,527	-4	94,1	17001	43,00528093	12,18	0,8465	274,35
1088	4500	0,485	-8	94,1	18999	41,57305348	11,86	0,8117	270,55
1089	4500	0,446	-12	94,1	21001	39,63174825	11,48	0,7625	266,45
1090	4500	0,410	-16	94,1	22999	37,12929267	11,03	0,7030	262,45
1091	4500	1,013	30	84,5	0	42,42940539	12,62	0,8587	307,15
1092	4500	0,908	24	84,5	2999	40,48659282	11,80	0,8243	301,25
1093	4500	0,812	18	84,5	5997	37,75838253	10,96	0,7779	295,55
1094	4500	0,724	12	84,5	8999	34,32464717	10,12	0,7225	289,75
1095	4500	0,644	6	84,5	11998	30,6021696	9,22	0,6595	284,05
1096	4500	0,572	0	84,5	15000	26,59775773	8,17	0,5925	278,35
1097	4500	0,527	-4	84,5	17001	23,73033248	7,42	0,5463	274,75
1098	4500	0,485	-8	84,5	18999	21,00121333	6,72	0,5018	271,15
1099	4500	0,446	-12	84,5	21001	18,58846585	6,15	0,4605	267,55
1100	4500	0,410	-16	84,5	22999	16,56885003	5,70	0,4231	263,95
1101	4500	1,013	30	72	0	27,82284236	9,04	0,6993	306,85
1102	4500	0,908	24	72	2999	26,00987435	8,32	0,6439	300,85
1103	4500	0,812	18	72	5997	23,08836697	7,58	0,5740	295,05
1104	4500	0,724	12	72	8999	19,47795796	6,84	0,5029	289,15
1105	4500	0,644	6	72	11998	16,25758128	6,16	0,4410	283,15
1106	4500	0,572	0	72	15000	13,57855883	5,58	0,3884	277,25
1107	4500	0,527	-4	72	17001	11,90749141	5,22	0,3555	273,35
1108	4500	0,485	-8	72	18999	10,32639042	4,90	0,3246	269,25
1109	4500	0,446	-12	72	21001	8,867709906	4,64	0,2967	265,25
1110	4500	0,410	-16	72	22999	7,586033897	4,42	0,2729	261,25
1111	4500	1,013	30	56,5	0	13,01190803	5,84	0,4572	306,85
1112	4500	0,908	24	56,5	2999	11,6642055	5,35	0,4129	300,85
1113	4500	0,812	18	56,5	5997	9,951110991	4,92	0,3728	294,95
1114	4500	0,724	12	56,5	8999	7,692406999	4,47	0,3300	289,05
1115	4500	0,644	6	56,5	11998	5,483582461	4,01	0,2873	283,15
1116	4500	0,572	0	56,5	15000	3,788523653	3,63	0,2525	277,25
1117	4500	0,527	-4	56,5	17001	3,007898021	3,46	0,2349	273,35
1118	4500	0,485	-8	56,5	18999	2,486751652	3,36	0,2221	269,25
1119	4500	0,446	-12	56,5	21001	2,169955398	3,33	0,2137	265,15
1120	4500	0,410	-16	56,5	22999	2,027057769	3,37	0,2095	261,35
1121	5000	1,013	45	100	0	86,66166147	27,64	1,3348	322,65
1122	5000	0,908	39	100	2999	86,51047504	26,98	1,3746	316,95
1123	5000	0,812	33	100	5997	86,52675733	26,81	1,3744	311,15
1124	5000	0,724	27	100	8999	86,45737961	26,91	1,3650	305,25
1125	5000	0,644	21	100	11998	86,38866381	27,49	1,3629	299,35
1126	5000	0,572	15	100	15000	85,1819511	27,44	1,3629	293,35
1127	5000	0,527	11	100	17001	83,51509505	26,81	1,3185	289,35
1128	5000	0,485	7	100	18999	80,16359181	25,56	1,2564	285,45
1129	5000	0,446	3	100	21001	75,03747679	23,84	1,1889	281,55
1130	5000	0,410	-1	100	22999	68,88037946	22,02	1,1200	277,75
1131	5000	1,013	45	99,4	0	84,47589876	26,55	1,3076	322,65
1132	5000	0,908	39	99,4	2999	83,80015841	25,60	1,3393	316,85
1133	5000	0,812	33	99,4	5997	83,16363698	25,03	1,3304	311,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1134	5000	0,724	27	99,4	8999	82,4490545	24,75	1,3095	305,15
1135	5000	0,644	21	99,4	11998	81,93205542	25,00	1,2996	299,25
1136	5000	0,572	15	99,4	15000	81,14904539	25,16	1,3052	293,25
1137	5000	0,527	11	99,4	17001	80,12895513	24,88	1,2713	289,35
1138	5000	0,485	7	99,4	18999	77,44623222	24,00	1,2191	285,35
1139	5000	0,446	3	99,4	21001	72,81876056	22,59	1,1583	281,45
1140	5000	0,410	-1	99,4	22999	66,95940241	20,97	1,0934	277,55
1141	5000	1,013	45	98,8	0	82,24256352	25,46	1,2800	322,65
1142	5000	0,908	39	98,8	2999	81,07142413	24,25	1,3037	316,85
1143	5000	0,812	33	98,8	5997	79,82896717	23,34	1,2867	311,05
1144	5000	0,724	27	98,8	8999	78,52516101	22,74	1,2553	305,15
1145	5000	0,644	21	98,8	11998	77,62220563	22,71	1,2382	299,25
1146	5000	0,572	15	98,8	15000	77,18619296	23,00	1,2476	293,25
1147	5000	0,527	11	98,8	17001	76,67590979	22,99	1,2233	289,25
1148	5000	0,485	7	98,8	18999	74,54666757	22,42	1,1804	285,35
1149	5000	0,446	3	98,8	21001	70,38680657	21,29	1,1262	281,35
1150	5000	0,410	-1	98,8	22999	64,86294287	19,89	1,0655	277,45
1151	5000	1,013	45	97,4	0	76,93167298	23,02	1,2145	322,65
1152	5000	0,908	39	97,4	2999	74,72742404	21,36	1,2208	316,85
1153	5000	0,812	33	97,4	5997	72,29486125	19,85	1,1877	311,05
1154	5000	0,724	27	97,4	8999	69,89255542	18,73	1,1359	305,15
1155	5000	0,644	21	97,4	11998	68,35929011	18,31	1,1052	299,15
1156	5000	0,572	15	97,4	15000	68,44491074	18,70	1,1183	293,15
1157	5000	0,527	11	97,4	17001	68,63272543	18,99	1,1119	289,15
1158	5000	0,485	7	97,4	18999	67,38175726	18,87	1,0874	285,15
1159	5000	0,446	3	97,4	21001	64,15760483	18,27	1,0474	281,25
1160	5000	0,410	-1	97,4	22999	59,48601768	17,37	0,9966	277,25
1161	5000	1,013	45	94,1	0	63,96127317	18,51	1,0644	322,55
1162	5000	0,908	39	94,1	2999	60,15633967	16,69	1,0372	316,75
1163	5000	0,812	33	94,1	5997	56,62452496	15,08	0,9844	310,75
1164	5000	0,724	27	94,1	8999	53,64507122	14,14	0,9188	304,85
1165	5000	0,644	21	94,1	11998	52,20017504	13,96	0,8802	299,05
1166	5000	0,572	15	94,1	15000	52,05491474	14,08	0,8854	293,15
1167	5000	0,527	11	94,1	17001	51,79395999	14,06	0,8906	289,15
1168	5000	0,485	7	94,1	18999	50,77888696	13,90	0,8839	285,15
1169	5000	0,446	3	94,1	21001	48,66458275	13,58	0,8616	281,25
1170	5000	0,410	-1	94,1	22999	45,6046809	13,14	0,8266	277,25
1171	5000	1,013	45	84,5	0	42,5533454	13,16	0,8082	322,45
1172	5000	0,908	39	84,5	2999	40,20263661	12,28	0,7618	316,65
1173	5000	0,812	33	84,5	5997	37,60336779	11,44	0,7142	310,55
1174	5000	0,724	27	84,5	8999	34,37489578	10,65	0,6630	304,55
1175	5000	0,644	21	84,5	11998	30,82846238	9,82	0,6054	298,85
1176	5000	0,572	15	84,5	15000	26,9927604	8,80	0,5468	293,15
1177	5000	0,527	11	84,5	17001	24,16780493	8,02	0,5085	289,35
1178	5000	0,485	7	84,5	18999	21,44684654	7,29	0,4719	285,65
1179	5000	0,446	3	84,5	21001	18,99827464	6,68	0,4382	282,15
1180	5000	0,410	-1	84,5	22999	16,8995732	6,20	0,4089	278,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1181	5000	1,013	45	72	0	26,09754697	9,05	0,6442	322,55
1182	5000	0,908	39	72	2999	23,78919528	8,21	0,5837	316,65
1183	5000	0,812	33	72	5997	20,86846269	7,41	0,5157	310,75
1184	5000	0,724	27	72	8999	17,54919298	6,64	0,4491	304,85
1185	5000	0,644	21	72	11998	14,64709365	5,95	0,3926	298,75
1186	5000	0,572	15	72	15000	12,12632618	5,38	0,3466	292,55
1187	5000	0,527	11	72	17001	10,46664478	5,03	0,3187	288,45
1188	5000	0,485	7	72	18999	8,843983194	4,72	0,2924	284,45
1189	5000	0,446	3	72	21001	7,315063946	4,46	0,2682	280,35
1190	5000	0,410	-1	72	22999	5,957980659	4,24	0,2469	276,25
1191	5000	1,013	45	56,5	0	11,52874907	5,85	0,4321	322,55
1192	5000	0,908	39	56,5	2999	9,943891144	5,38	0,3807	316,55
1193	5000	0,812	33	56,5	5997	8,240923154	4,99	0,3375	310,55
1194	5000	0,724	27	56,5	8999	6,085822087	4,59	0,2963	304,65
1195	5000	0,644	21	56,5	11998	3,933880985	4,18	0,2578	298,65
1196	5000	0,572	15	56,5	15000	2,273145838	3,84	0,2273	292,55
1201	4500	1,013	45	100	0	73,41678636	22,95	1,2514	322,45
1202	4500	0,908	39	100	2999	72,65669344	22,05	1,3035	316,85
1203	4500	0,812	33	100	5997	71,45810247	21,41	1,3014	310,95
1204	4500	0,724	27	100	8999	70,67202447	21,41	1,2739	305,15
1205	4500	0,644	21	100	11998	67,85145638	21,32	1,2096	299,25
1206	4500	0,572	15	100	15000	62,45458642	20,53	1,1250	293,25
1207	4500	0,527	11	100	17001	59,65505852	19,81	1,0775	289,15
1208	4500	0,485	7	100	18999	57,31658391	18,90	1,0345	285,15
1209	4500	0,446	3	100	21001	54,25224811	17,73	0,9826	281,15
1210	4500	0,410	-1	100	22999	50,01531373	16,37	0,9187	277,15
1211	4500	1,013	45	99,4	0	71,74893382	22,09	1,2307	322,45
1212	4500	0,908	39	99,4	2999	70,61476282	20,96	1,2763	316,75
1213	4500	0,812	33	99,4	5997	69,06975512	20,10	1,2676	310,95
1214	4500	0,724	27	99,4	8999	67,95910116	19,90	1,2344	305,15
1215	4500	0,644	21	99,4	11998	65,07085058	19,76	1,1695	299,25
1216	4500	0,572	15	99,4	15000	60,09455936	19,20	1,0921	293,25
1217	4500	0,527	11	99,4	17001	57,72998308	18,71	1,0518	289,15
1218	4500	0,485	7	99,4	18999	55,80981173	18,02	1,0155	285,15
1219	4500	0,446	3	99,4	21001	53,00691126	17,01	0,9674	281,15
1220	4500	0,410	-1	99,4	22999	48,86728863	15,74	0,9047	277,15
1221	4500	1,013	45	98,8	0	70,07330647	21,25	1,2093	322,35
1222	4500	0,908	39	98,8	2999	68,58881392	19,94	1,2483	316,75
1223	4500	0,812	33	98,8	5997	66,73851417	18,90	1,2333	310,85
1224	4500	0,724	27	98,8	8999	65,30963594	18,52	1,1946	305,05
1225	4500	0,644	21	98,8	11998	62,36625891	18,32	1,1297	299,25
1226	4500	0,572	15	98,8	15000	57,81767726	17,92	1,0597	293,25
1227	4500	0,527	11	98,8	17001	55,7976169	17,59	1,0259	289,15
1228	4500	0,485	7	98,8	18999	54,16643351	17,08	0,9950	285,15
1229	4500	0,446	3	98,8	21001	51,57092948	16,21	0,9503	281,15
1230	4500	0,410	-1	98,8	22999	47,57989602	15,05	0,8894	277,15
1231	4500	1,013	45	97,4	0	66,17417285	19,47	1,1572	322,35

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1232	4500	0,908	39	97,4	2999	63,97667575	17,90	1,1807	316,55
1233	4500	0,812	33	97,4	5997	61,57888931	16,58	1,1530	310,75
1234	4500	0,724	27	97,4	8999	59,48859002	15,85	1,1029	304,95
1235	4500	0,644	21	97,4	11998	56,47432651	15,48	1,0401	299,15
1236	4500	0,572	15	97,4	15000	52,85468489	15,26	0,9874	293,35
1237	4500	0,527	11	97,4	17001	51,32336488	15,14	0,9652	289,25
1238	4500	0,485	7	97,4	18999	49,96984437	14,84	0,9426	285,25
1239	4500	0,446	3	97,4	21001	47,68377449	14,25	0,9044	281,25
1240	4500	0,410	-1	97,4	22999	44,15742977	13,40	0,8493	277,25
1241	4500	1,013	45	94,1	0	56,77234322	16,36	1,0344	322,25
1242	4500	0,908	39	94,1	2999	53,58277327	14,90	1,0257	316,45
1243	4500	0,812	33	94,1	5997	50,8878976	13,73	0,9806	310,65
1244	4500	0,724	27	94,1	8999	48,24371144	12,93	0,9208	304,85
1245	4500	0,644	21	94,1	11998	45,42558529	12,41	0,8688	299,15
1246	4500	0,572	15	94,1	15000	42,70563803	12,00	0,8392	293,45
1247	4500	0,527	11	94,1	17001	41,05557718	11,70	0,8259	289,55
1248	4500	0,485	7	94,1	18999	39,3378042	11,33	0,8077	285,75
1249	4500	0,446	3	94,1	21001	37,23873626	10,90	0,7775	281,75
1250	4500	0,410	-1	94,1	22999	34,66310232	10,42	0,7351	277,85
1251	4500	1,013	45	84,5	0	40,98804176	12,51	0,8287	322,15
1252	4500	0,908	39	84,5	2999	38,99296181	11,66	0,7944	316,35
1253	4500	0,812	33	84,5	5997	36,47955111	10,79	0,7473	310,65
1254	4500	0,724	27	84,5	8999	33,1497912	9,92	0,6906	304,85
1255	4500	0,644	21	84,5	11998	29,23437644	8,98	0,6271	299,25
1256	4500	0,572	15	84,5	15000	25,03407453	7,89	0,5631	293,85
1257	4500	0,527	11	84,5	17001	22,10663154	7,12	0,5213	290,25
1258	4500	0,485	7	84,5	18999	19,31472581	6,40	0,4811	286,85
1259	4500	0,446	3	84,5	21001	16,8015251	5,80	0,4437	283,25
1260	4500	0,410	-1	84,5	22999	14,70303256	5,34	0,4104	279,35
1261	4500	1,013	45	72	0	27,02755954	8,88	0,6931	322,05
1262	4500	0,908	39	72	2999	25,06663708	8,11	0,6396	316,25
1263	4500	0,812	33	72	5997	22,15042418	7,36	0,5692	310,45
1264	4500	0,724	27	72	8999	18,55500764	6,61	0,4949	304,35
1265	4500	0,644	21	72	11998	15,31188297	5,93	0,4302	298,15
1266	4500	0,572	15	72	15000	12,66247563	5,35	0,3783	292,25
1267	4500	0,527	11	72	17001	11,04499204	5,00	0,3475	288,25
1268	4500	0,485	7	72	18999	9,521399652	4,69	0,3190	284,15
1269	4500	0,446	3	72	21001	8,103739719	4,43	0,2927	280,25
1270	4500	0,410	-1	72	22999	6,836128273	4,21	0,2691	276,25
1271	4500	1,013	45	56,5	0	12,92132732	5,87	0,4695	321,75
1272	4500	0,908	39	56,5	2999	11,4889302	5,37	0,4206	315,85
1273	4500	0,812	33	56,5	5997	9,787129047	4,92	0,3767	309,85
1274	4500	0,724	27	56,5	8999	7,578360862	4,45	0,3324	303,95
1275	4500	0,644	21	56,5	11998	5,3363165	3,98	0,2883	297,95
1276	4500	0,572	15	56,5	15000	3,534657549	3,57	0,2512	292,05
1277	4500	0,527	11	56,5	17001	2,687442517	3,38	0,2327	288,15
1278	4500	0,485	7	56,5	18999	2,121471666	3,27	0,2191	284,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1281	4000	1,013	0	100	0	62,30952776	18,66	1,2923	276,95
1282	4000	0,908	-6	100	2999	60,01183229	17,84	1,2576	271,15
1283	4000	0,812	-12	100	5997	56,18726278	17,12	1,1569	265,25
1284	4000	0,724	-18	100	8999	53,18573578	16,64	1,0491	259,45
1285	4000	0,644	-24	100	11998	49,39005317	15,74	0,9115	253,55
1286	4000	0,572	-30	100	15000	44,21441894	14,25	0,7479	247,55
1287	4000	0,527	-34	100	17001	40,87156945	13,21	0,6317	243,55
1288	4000	0,485	-38	100	18999	37,79446447	12,20	0,5204	239,55
1289	4000	0,446	-42	100	21001	34,93780016	11,25	0,4261	235,55
1290	4000	0,410	-46	100	22999	32,37869873	10,46	0,3577	231,65
1291	4000	1,013	0	99,4	0	61,33309365	18,06	1,2829	276,95
1292	4000	0,908	-6	99,4	2999	58,8440081	17,12	1,2445	271,05
1293	4000	0,812	-12	99,4	5997	54,81890481	16,28	1,1402	265,25
1294	4000	0,724	-18	99,4	8999	51,66332151	15,72	1,0315	259,45
1295	4000	0,644	-24	99,4	11998	47,85146569	14,83	0,8964	253,55
1296	4000	0,572	-30	99,4	15000	42,84021075	13,47	0,7360	247,65
1297	4000	0,527	-34	99,4	17001	39,65225147	12,54	0,6214	243,55
1298	4000	0,485	-38	99,4	18999	36,72622588	11,63	0,5113	239,55
1299	4000	0,446	-42	99,4	21001	33,99818969	10,78	0,4178	235,55
1300	4000	0,410	-46	99,4	22999	31,52895992	10,06	0,3496	231,65
1301	4000	1,013	0	98,8	0	60,37997237	17,51	1,2720	276,85
1302	4000	0,908	-6	98,8	2999	57,7358963	16,48	1,2306	271,05
1303	4000	0,812	-12	98,8	5997	53,56961641	15,56	1,1236	265,25
1304	4000	0,724	-18	98,8	8999	50,25444536	14,91	1,0145	259,35
1305	4000	0,644	-24	98,8	11998	46,41408151	14,02	0,8825	253,55
1306	4000	0,572	-30	98,8	15000	41,58403327	12,79	0,7260	247,65
1307	4000	0,527	-34	98,8	17001	38,55726036	11,96	0,6135	243,65
1308	4000	0,485	-38	98,8	18999	35,78550716	11,16	0,5051	239,65
1309	4000	0,446	-42	98,8	21001	33,18557869	10,39	0,4125	235,65
1310	4000	0,410	-46	98,8	22999	30,80040313	9,74	0,3445	231,65
1311	4000	1,013	0	97,4	0	58,23991473	16,40	1,2417	276,85
1312	4000	0,908	-6	97,4	2999	55,35605668	15,29	1,1957	271,05
1313	4000	0,812	-12	97,4	5997	51,04231956	14,26	1,0859	265,25
1314	4000	0,724	-18	97,4	8999	47,35821889	13,43	0,9769	259,35
1315	4000	0,644	-24	97,4	11998	43,43330401	12,52	0,8535	253,55
1316	4000	0,572	-30	97,4	15000	39,05416605	11,53	0,7083	247,75
1317	4000	0,527	-34	97,4	17001	36,40363285	10,90	0,6022	243,85
1318	4000	0,485	-38	97,4	18999	33,98067418	10,31	0,4990	239,85
1319	4000	0,446	-42	97,4	21001	31,66321334	9,74	0,4095	235,85
1320	4000	0,410	-46	97,4	22999	29,44939727	9,22	0,3417	231,85
1321	4000	1,013	0	94,1	0	52,88152695	14,60	1,1526	276,65
1322	4000	0,908	-6	94,1	2999	49,87846573	13,71	1,1025	270,95
1323	4000	0,812	-12	94,1	5997	45,73155664	12,89	1,0002	265,25
1324	4000	0,724	-18	94,1	8999	41,54789576	11,94	0,8992	259,35
1325	4000	0,644	-24	94,1	11998	37,67356608	10,97	0,7970	253,55
1326	4000	0,572	-30	94,1	15000	34,19594821	10,13	0,6798	247,75
1327	4000	0,527	-34	94,1	17001	32,16325338	9,65	0,5920	243,95

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1328	4000	0,485	-38	94,1	18999	30,27963951	9,22	0,5046	240,25
1329	4000	0,446	-42	94,1	21001	28,4149019	8,84	0,4249	236,35
1330	4000	0,410	-46	94,1	22999	26,51725256	8,47	0,3597	232,55
1331	4000	1,013	0	84,5	0	41,35059207	11,86	0,9424	276,45
1332	4000	0,908	-6	84,5	2999	38,82987218	11,03	0,9043	270,85
1333	4000	0,812	-12	84,5	5997	35,0368034	10,17	0,8369	265,15
1334	4000	0,724	-18	84,5	8999	30,97342845	9,32	0,7513	259,35
1335	4000	0,644	-24	84,5	11998	27,90300749	8,48	0,6588	253,65
1336	4000	0,572	-30	84,5	15000	24,63934517	7,54	0,5682	247,95
1337	4000	0,527	-34	84,5	17001	22,35469795	6,91	0,5098	244,15
1338	4000	0,485	-38	84,5	18999	20,2454765	6,35	0,4553	240,15
1339	4000	0,446	-42	84,5	21001	18,40786473	5,90	0,4059	235,95
1340	4000	0,410	-46	84,5	22999	16,82205366	5,55	0,3633	231,85
1341	4000	1,013	0	72	0	29,21204198	9,03	0,7672	276,15
1342	4000	0,908	-6	72	2999	27,44146012	8,38	0,7199	270,35
1343	4000	0,812	-12	72	5997	24,463784	7,71	0,6527	264,65
1344	4000	0,724	-18	72	8999	20,91148991	7,03	0,5775	258,95
1345	4000	0,644	-24	72	11998	17,61324498	6,39	0,5042	253,05
1346	4000	0,572	-30	72	15000	14,83151351	5,82	0,4376	247,05
1347	4000	0,527	-34	72	17001	13,18071965	5,48	0,3976	243,05
1348	4000	0,485	-38	72	18999	11,70941712	5,18	0,3628	239,05
1349	4000	0,446	-42	72	21001	10,43197967	4,94	0,3340	234,95
1350	4000	0,410	-46	72	22999	9,351427517	4,74	0,3111	230,95
1351	4000	1,013	0	56,5	0	14,8065624	5,86	0,5086	276,05
1352	4000	0,908	-6	56,5	2999	13,29838274	5,32	0,4728	270,25
1353	4000	0,812	-12	56,5	5997	11,42582762	4,84	0,4355	264,45
1354	4000	0,724	-18	56,5	8999	9,329191723	4,38	0,3924	258,75
1355	4000	0,644	-24	56,5	11998	7,343382067	3,95	0,3479	252,85
1356	4000	0,572	-30	56,5	15000	5,755748934	3,59	0,3116	246,95
1357	4000	0,527	-34	56,5	17001	4,987435164	3,43	0,2939	242,95
1358	4000	0,485	-38	56,5	18999	4,467412064	3,34	0,2820	239,05
1359	4000	0,446	-42	56,5	21001	4,17768299	3,32	0,2757	234,95
1360	4000	0,410	-46	56,5	22999	4,078697754	3,36	0,2737	230,95
1361	3500	1,013	0	100	0	47,71700928	14,21	1,1734	275,15
1362	3500	0,908	-6	100	2999	44,91497693	13,56	1,1574	269,45
1363	3500	0,812	-12	100	5997	41,02377209	12,91	1,0469	263,85
1364	3500	0,724	-18	100	8999	37,56761809	12,23	0,9271	258,25
1365	3500	0,644	-24	100	11998	33,17086145	11,02	0,7710	252,65
1366	3500	0,572	-30	100	15000	27,64339859	9,40	0,5839	247,15
1367	3500	0,527	-34	100	17001	24,08598193	8,36	0,4578	243,25
1368	3500	0,485	-38	100	18999	21,06990208	7,47	0,3438	239,25
1369	3500	0,446	-42	100	21001	18,68658525	6,74	0,2511	235,25
1370	3500	0,410	-46	100	22999	16,89044021	6,19	0,1854	231,35
1371	3500	1,013	0	99,4	0	47,25041649	13,84	1,1750	275,15
1372	3500	0,908	-6	99,4	2999	44,43887682	13,14	1,1580	269,45
1373	3500	0,812	-12	99,4	5997	40,42745745	12,42	1,0438	263,85
1374	3500	0,724	-18	99,4	8999	36,84216481	11,63	0,9216	258,25

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1375	3500	0,644	-24	99,4	11998	32,41292851	10,39	0,7663	252,65
1376	3500	0,572	-30	99,4	15000	26,94085172	8,82	0,5808	247,15
1377	3500	0,527	-34	99,4	17001	23,44596351	7,84	0,4554	243,25
1378	3500	0,485	-38	99,4	18999	20,49379967	7,00	0,3416	239,35
1379	3500	0,446	-42	99,4	21001	18,1640711	6,32	0,2488	235,35
1380	3500	0,410	-46	99,4	22999	16,40475924	5,81	0,1828	231,35
1381	3500	1,013	0	98,8	0	46,83346675	13,54	1,1752	275,15
1382	3500	0,908	-6	98,8	2999	44,05386359	12,81	1,1578	269,45
1383	3500	0,812	-12	98,8	5997	39,95332325	12,03	1,0405	263,85
1384	3500	0,724	-18	98,8	8999	36,22867118	11,14	0,9159	258,25
1385	3500	0,644	-24	98,8	11998	31,76207839	9,86	0,7620	252,65
1386	3500	0,572	-30	98,8	15000	26,37331804	8,36	0,5792	247,15
1387	3500	0,527	-34	98,8	17001	22,96031694	7,44	0,4550	243,35
1388	3500	0,485	-38	98,8	18999	20,08544457	6,65	0,3420	239,35
1389	3500	0,446	-42	98,8	21001	17,81239633	6,02	0,2494	235,35
1390	3500	0,410	-46	98,8	22999	16,08303957	5,54	0,1831	231,35
1391	3500	1,013	0	97,4	0	45,99654726	13,03	1,1697	275,05
1392	3500	0,908	-6	97,4	2999	43,3857552	12,32	1,1526	269,35
1393	3500	0,812	-12	97,4	5997	39,1863007	11,44	1,0311	263,85
1394	3500	0,724	-18	97,4	8999	35,13610943	10,35	0,9022	258,15
1395	3500	0,644	-24	97,4	11998	30,59103205	9,01	0,7531	252,65
1396	3500	0,572	-30	97,4	15000	25,48504997	7,65	0,5794	247,15
1397	3500	0,527	-34	97,4	17001	22,32024178	6,85	0,4603	243,45
1398	3500	0,485	-38	97,4	18999	19,65738397	6,19	0,3507	239,45
1399	3500	0,446	-42	97,4	21001	17,52228191	5,67	0,2596	235,35
1400	3500	0,410	-46	97,4	22999	15,84305666	5,26	0,1927	231,25
1401	3500	1,013	0	94,1	0	43,54677242	12,36	1,1258	274,95
1402	3500	0,908	-6	94,1	2999	41,18368241	11,82	1,1050	269,25
1403	3500	0,812	-12	94,1	5997	37,23099558	11,05	0,9914	263,75
1404	3500	0,724	-18	94,1	8999	32,88561257	9,85	0,8652	258,15
1405	3500	0,644	-24	94,1	11998	28,57078353	8,52	0,7334	252,55
1406	3500	0,572	-30	94,1	15000	24,44784746	7,37	0,5882	246,85
1407	3500	0,527	-34	94,1	17001	21,98484366	6,74	0,4872	242,95
1408	3500	0,485	-38	94,1	18999	19,85839073	6,23	0,3917	238,95
1409	3500	0,446	-42	94,1	21001	18,03021052	5,82	0,3084	234,75
1410	3500	0,410	-46	94,1	22999	16,4296235	5,49	0,2427	230,55
1411	3500	1,013	0	84,5	0	35,8785248	10,59	0,9564	274,75
1412	3500	0,908	-6	84,5	2999	33,16320415	9,73	0,9251	268,95
1413	3500	0,812	-12	84,5	5997	29,64856715	8,87	0,8514	263,25
1414	3500	0,724	-18	84,5	8999	26,18765695	8,06	0,7550	257,35
1415	3500	0,644	-24	84,5	11998	23,39579674	7,29	0,6523	251,65
1416	3500	0,572	-30	84,5	15000	20,5108466	6,47	0,5536	245,85
1417	3500	0,527	-34	84,5	17001	18,53264863	5,93	0,4910	241,95
1418	3500	0,485	-38	84,5	18999	16,74483597	5,46	0,4330	238,05
1419	3500	0,446	-42	84,5	21001	15,21387446	5,09	0,3809	234,05
1420	3500	0,410	-46	84,5	22999	13,90512441	4,80	0,3364	230,05
1421	3500	1,013	0	72	0	27,5800486	8,49	0,8165	274,55

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1422	3500	0,908	-6	72	2999	25,56632015	7,76	0,7736	268,75
1423	3500	0,812	-12	72	5997	22,74482824	7,12	0,7045	262,95
1424	3500	0,724	-18	72	8999	19,44774883	6,51	0,6238	257,25
1425	3500	0,644	-24	72	11998	16,29896388	5,93	0,5439	251,55
1426	3500	0,572	-30	72	15000	13,65590728	5,43	0,4715	245,75
1427	3500	0,527	-34	72	17001	12,14598509	5,13	0,4280	241,95
1428	3500	0,485	-38	72	18999	10,85478015	4,88	0,3902	237,95
1429	3500	0,446	-42	72	21001	9,778171648	4,68	0,3586	234,05
1430	3500	0,410	-46	72	22999	8,896519654	4,53	0,3333	230,05
1431	3500	1,013	0	56,5	0	15,50524655	5,92	0,5700	274,75
1432	3500	0,908	-6	56,5	2999	13,79313618	5,29	0,5372	268,85
1433	3500	0,812	-12	56,5	5997	11,87173756	4,74	0,5000	262,95
1434	3500	0,724	-18	56,5	8999	9,907081126	4,23	0,4542	257,15
1435	3500	0,644	-24	56,5	11998	7,95778372	3,78	0,4035	251,35
1436	3500	0,572	-30	56,5	15000	6,300116855	3,41	0,3599	245,55
1437	3500	0,527	-34	56,5	17001	5,486066098	3,24	0,3373	241,75
1438	3500	0,485	-38	56,5	18999	4,948907571	3,15	0,3211	237,85
1439	3500	0,446	-42	56,5	21001	4,673444986	3,15	0,3111	233,95
1440	3500	0,410	-46	56,5	22999	4,608742255	3,21	0,3059	229,95
1441	4000	1,013	15	100	0	61,56535451	18,54	1,2801	291,85
1442	4000	0,908	9	100	2999	59,44482061	17,69	1,2843	286,05
1443	4000	0,812	3	100	5997	55,78870188	16,92	1,2121	280,25
1444	4000	0,724	-3	100	8999	52,82790932	16,37	1,1240	274,45
1445	4000	0,644	-9	100	11998	48,53740077	15,37	1,0019	268,65
1446	4000	0,572	-15	100	15000	42,2147823	13,74	0,8520	262,75
1447	4000	0,527	-19	100	17001	38,55328403	12,70	0,7475	258,65
1448	4000	0,485	-23	100	18999	35,54954266	11,74	0,6402	254,65
1449	4000	0,446	-27	100	21001	32,83668766	10,82	0,5329	250,65
1450	4000	0,410	-31	100	22999	30,29161765	9,99	0,4387	246,75
1451	4000	1,013	15	99,4	0	60,53996907	17,93	1,2696	291,75
1452	4000	0,908	9	99,4	2999	58,2409327	16,95	1,2694	285,95
1453	4000	0,812	3	99,4	5997	54,4185316	16,07	1,1930	280,25
1454	4000	0,724	-3	99,4	8999	51,32879522	15,43	1,1040	274,45
1455	4000	0,644	-9	99,4	11998	47,01557044	14,44	0,9851	268,65
1456	4000	0,572	-15	99,4	15000	40,89417868	12,97	0,8402	262,75
1457	4000	0,527	-19	99,4	17001	37,40759301	12,04	0,7382	258,75
1458	4000	0,485	-23	99,4	18999	34,56136324	11,18	0,6325	254,65
1459	4000	0,446	-27	99,4	21001	31,97687592	10,35	0,5263	250,75
1460	4000	0,410	-31	99,4	22999	29,53087134	9,60	0,4330	246,75
1461	4000	1,013	15	98,8	0	59,5358668	17,38	1,2578	291,75
1462	4000	0,908	9	98,8	2999	57,0950215	16,31	1,2537	285,95
1463	4000	0,812	3	98,8	5997	53,1749902	15,34	1,1738	280,25
1464	4000	0,724	-3	98,8	8999	49,94638517	14,61	1,0841	274,45
1465	4000	0,644	-9	98,8	11998	45,6058153	13,62	0,9692	268,65
1466	4000	0,572	-15	98,8	15000	39,72229529	12,29	0,8305	262,75
1467	4000	0,527	-19	98,8	17001	36,41642383	11,47	0,7313	258,75
1468	4000	0,485	-23	98,8	18999	33,72075236	10,71	0,6273	254,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1469	4000	0,446	-27	98,8	21001	31,25652382	9,96	0,5227	250,75
1470	4000	0,410	-31	98,8	22999	28,89681917	9,28	0,4305	246,85
1471	4000	1,013	15	97,4	0	57,27554321	16,27	1,2257	291,65
1472	4000	0,908	9	97,4	2999	54,62081866	15,11	1,2140	285,85
1473	4000	0,812	3	97,4	5997	50,68137554	14,04	1,1288	280,15
1474	4000	0,724	-3	97,4	8999	47,12141289	13,13	1,0387	274,45
1475	4000	0,644	-9	97,4	11998	42,72103008	12,12	0,9346	268,65
1476	4000	0,572	-15	97,4	15000	37,46485727	11,06	0,8129	262,95
1477	4000	0,527	-19	97,4	17001	34,5700879	10,44	0,7212	258,95
1478	4000	0,485	-23	97,4	18999	32,1887855	9,86	0,6223	254,95
1479	4000	0,446	-27	97,4	21001	29,96381666	9,30	0,5226	250,95
1480	4000	0,410	-31	97,4	22999	27,76853813	8,76	0,4336	247,05
1481	4000	1,013	15	94,1	0	51,67561331	14,46	1,1347	291,45
1482	4000	0,908	9	94,1	2999	48,90754353	13,54	1,1099	285,75
1483	4000	0,812	3	94,1	5997	45,45154481	12,71	1,0258	280,05
1484	4000	0,724	-3	94,1	8999	41,46952677	11,71	0,9417	274,35
1485	4000	0,644	-9	94,1	11998	37,23976363	10,67	0,8615	268,65
1486	4000	0,572	-15	94,1	15000	33,20687732	9,76	0,7736	262,95
1487	4000	0,527	-19	94,1	17001	30,93291902	9,25	0,6999	259,25
1488	4000	0,485	-23	94,1	18999	28,96026344	8,79	0,6168	255,45
1489	4000	0,446	-27	94,1	21001	27,06570452	8,38	0,5320	251,65
1490	4000	0,410	-31	94,1	22999	25,14814842	8,00	0,4532	247,85
1491	4000	1,013	15	84,5	0	40,30114091	11,73	0,9291	291,25
1492	4000	0,908	9	84,5	2999	38,12387324	10,89	0,9008	285,55
1493	4000	0,812	3	84,5	5997	34,96709047	10,00	0,8433	279,95
1494	4000	0,724	-3	84,5	8999	31,23813373	9,11	0,7673	274,35
1495	4000	0,644	-9	84,5	11998	27,54947579	8,23	0,6812	268,85
1496	4000	0,572	-15	84,5	15000	23,77028313	7,24	0,5958	263,35
1497	4000	0,527	-19	84,5	17001	21,18003389	6,58	0,5403	259,55
1498	4000	0,485	-23	84,5	18999	18,84522064	5,98	0,4876	255,45
1499	4000	0,446	-27	84,5	21001	16,87331497	5,51	0,4385	251,35
1500	4000	0,410	-31	84,5	22999	15,24941068	5,15	0,3938	247,05
1501	4000	1,013	15	72	0	28,43929604	8,84	0,7683	290,85
1502	4000	0,908	9	72	2999	26,68342253	8,15	0,7209	284,95
1503	4000	0,812	3	72	5997	23,75738458	7,48	0,6512	279,25
1504	4000	0,724	-3	72	8999	20,15297086	6,80	0,5742	273,45
1505	4000	0,644	-9	72	11998	16,79457866	6,16	0,5019	267,65
1506	4000	0,572	-15	72	15000	14,00847536	5,59	0,4372	261,85
1507	4000	0,527	-19	72	17001	12,36828355	5,26	0,3971	257,95
1508	4000	0,485	-23	72	18999	10,89567812	4,96	0,3609	254,05
1509	4000	0,446	-27	72	21001	9,592955722	4,72	0,3297	250,05
1510	4000	0,410	-31	72	22999	8,481850989	4,52	0,3041	246,05
1511	4000	1,013	15	56,5	0	14,3951851	5,85	0,5087	290,65
1512	4000	0,908	9	56,5	2999	12,91861956	5,30	0,4714	284,75
1513	4000	0,812	3	56,5	5997	11,07487078	4,81	0,4334	278,95
1514	4000	0,724	-3	56,5	8999	8,929916623	4,34	0,3892	273,25
1515	4000	0,644	-9	56,5	11998	6,875056547	3,88	0,3420	267,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1516	4000	0,572	-15	56,5	15000	5,193210514	3,48	0,3009	261,65
1517	4000	0,527	-19	56,5	17001	4,363686549	3,30	0,2793	257,75
1518	4000	0,485	-23	56,5	18999	3,783401364	3,19	0,2636	253,95
1519	4000	0,446	-27	56,5	21001	3,429271098	3,16	0,2537	249,95
1520	4000	0,410	-31	56,5	22999	3,282879912	3,20	0,2490	245,95
1521	3500	1,013	15	100	0	47,08863973	14,13	1,1434	290,05
1522	3500	0,908	9	100	2999	44,29343751	13,47	1,1734	284,25
1523	3500	0,812	3	100	5997	40,4137381	12,80	1,1025	278,65
1524	3500	0,724	-3	100	8999	37,05820679	12,04	1,0046	273,05
1525	3500	0,644	-9	100	11998	32,43979646	10,76	0,8746	267,45
1526	3500	0,572	-15	100	15000	26,24355161	9,09	0,7041	261,95
1527	3500	0,527	-19	100	17001	22,32638876	8,05	0,5847	258,05
1528	3500	0,485	-23	100	18999	19,12608941	7,17	0,4686	254,25
1529	3500	0,446	-27	100	21001	16,65048172	6,46	0,3613	250,35
1530	3500	0,410	-31	100	22999	14,80347136	5,90	0,2714	246,35
1531	3500	1,013	15	99,4	0	46,57671213	13,76	1,1430	290,05
1532	3500	0,908	9	99,4	2999	43,79472648	13,04	1,1716	284,25
1533	3500	0,812	3	99,4	5997	39,84058351	12,30	1,0972	278,65
1534	3500	0,724	-3	99,4	8999	36,37766253	11,44	0,9972	273,05
1535	3500	0,644	-9	99,4	11998	31,7392519	10,11	0,8685	267,45
1536	3500	0,572	-15	99,4	15000	25,59986044	8,50	0,7011	261,95
1537	3500	0,527	-19	99,4	17001	21,7420671	7,52	0,5831	258,15
1538	3500	0,485	-23	99,4	18999	18,60431779	6,70	0,4677	254,25
1539	3500	0,446	-27	99,4	21001	16,18068837	6,03	0,3606	250,35
1540	3500	0,410	-31	99,4	22999	14,36824371	5,51	0,2704	246,25
1541	3500	1,013	15	98,8	0	46,11382094	13,46	1,1414	290,05
1542	3500	0,908	9	98,8	2999	43,38893814	12,71	1,1686	284,25
1543	3500	0,812	3	98,8	5997	39,40528935	11,90	1,0913	278,65
1544	3500	0,724	-3	98,8	8999	35,81855071	10,94	0,9894	273,05
1545	3500	0,644	-9	98,8	11998	31,14724165	9,58	0,8623	267,45
1546	3500	0,572	-15	98,8	15000	25,10214318	8,03	0,6991	261,95
1547	3500	0,527	-19	98,8	17001	21,32906268	7,11	0,5831	258,15
1548	3500	0,485	-23	98,8	18999	18,26570487	6,34	0,4689	254,35
1549	3500	0,446	-27	98,8	21001	15,89634262	5,72	0,3624	250,35
1550	3500	0,410	-31	98,8	22999	14,11067708	5,23	0,2723	246,35
1551	3500	1,013	15	97,4	0	45,17292855	12,93	1,1331	290,05
1552	3500	0,908	9	97,4	2999	42,68156388	12,21	1,1570	284,25
1553	3500	0,812	3	97,4	5997	38,76806292	11,30	1,0750	278,55
1554	3500	0,724	-3	97,4	8999	34,87124029	10,15	0,9695	272,95
1555	3500	0,644	-9	97,4	11998	30,10852214	8,72	0,8473	267,45
1556	3500	0,572	-15	97,4	15000	24,39748797	7,31	0,6967	261,95
1557	3500	0,527	-19	97,4	17001	20,89294778	6,52	0,5872	258,35
1558	3500	0,485	-23	97,4	18999	18,04052606	5,86	0,4774	254,45
1559	3500	0,446	-27	97,4	21001	15,80029918	5,34	0,3741	250,45
1560	3500	0,410	-31	97,4	22999	14,05838048	4,92	0,2855	246,35
1561	3500	1,013	15	94,1	0	42,57047866	12,24	1,0906	289,95
1562	3500	0,908	9	94,1	2999	40,46530615	11,70	1,1009	284,15

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1563	3500	0,812	3	94,1	5997	37,08235935	10,94	1,0185	278,45
1564	3500	0,724	-3	94,1	8999	32,86199141	9,69	0,9151	272,85
1565	3500	0,644	-9	94,1	11998	28,2657493	8,29	0,8082	267,25
1566	3500	0,572	-15	94,1	15000	23,68462375	7,08	0,6886	261,65
1567	3500	0,527	-19	94,1	17001	20,96663894	6,43	0,5989	257,75
1568	3500	0,485	-23	94,1	18999	18,68186723	5,89	0,5060	253,85
1569	3500	0,446	-27	94,1	21001	16,75640106	5,46	0,4161	249,75
1570	3500	0,410	-31	94,1	22999	15,09083246	5,12	0,3356	245,55
1571	3500	1,013	15	84,5	0	34,97139035	10,46	0,9434	289,75
1572	3500	0,908	9	84,5	2999	32,52629545	9,58	0,9252	283,95
1573	3500	0,812	3	84,5	5997	29,45447294	8,69	0,8625	278,05
1574	3500	0,724	-3	84,5	8999	26,1183428	7,86	0,7751	272,15
1575	3500	0,644	-9	84,5	11998	22,87296652	7,05	0,6789	266,25
1576	3500	0,572	-15	84,5	15000	19,55010027	6,19	0,5860	260,35
1577	3500	0,527	-19	84,5	17001	17,31168346	5,62	0,5268	256,45
1578	3500	0,485	-23	84,5	18999	15,34651473	5,12	0,4711	252,65
1579	3500	0,446	-27	84,5	21001	13,72329707	4,73	0,4194	248,85
1580	3500	0,410	-31	84,5	22999	12,40471668	4,44	0,3726	244,95
1581	3500	1,013	15	72	0	26,79735509	8,31	0,8208	289,45
1582	3500	0,908	9	72	2999	24,78584761	7,55	0,7809	283,45
1583	3500	0,812	3	72	5997	22,02622296	6,91	0,7106	277,55
1584	3500	0,724	-3	72	8999	18,72903622	6,29	0,6280	271,75
1585	3500	0,644	-9	72	11998	15,51958045	5,72	0,5480	265,95
1586	3500	0,572	-15	72	15000	12,82919488	5,22	0,4761	260,25
1587	3500	0,527	-19	72	17001	11,29874596	4,93	0,4321	256,45
1588	3500	0,485	-23	72	18999	9,984936223	4,68	0,3928	252,55
1589	3500	0,446	-27	72	21001	8,875886258	4,48	0,3590	248,75
1590	3500	0,410	-31	72	22999	7,969695346	4,32	0,3309	244,85
1591	3500	1,013	15	56,5	0	15,03080427	5,90	0,5699	289,65
1592	3500	0,908	9	56,5	2999	13,33308151	5,26	0,5362	283,55
1593	3500	0,812	3	56,5	5997	11,42446212	4,70	0,4987	277,65
1594	3500	0,724	-3	56,5	8999	9,40395675	4,18	0,4529	271,75
1595	3500	0,644	-9	56,5	11998	7,428097231	3,70	0,4007	265,85
1596	3500	0,572	-15	56,5	15000	5,685318001	3,30	0,3524	260,15
1597	3500	0,527	-19	56,5	17001	4,802253831	3,11	0,3258	256,25
1598	3500	0,485	-23	56,5	18999	4,196419564	3,01	0,3054	252,45
1599	3500	0,446	-27	56,5	21001	3,854754416	2,99	0,2915	248,55
1600	3500	0,410	-31	56,5	22999	3,748643281	3,04	0,2835	244,65
1601	4000	1,013	30	100	0	60,59954923	18,45	1,2160	306,55
1602	4000	0,908	24	100	2999	58,62555151	17,58	1,2561	300,95
1603	4000	0,812	18	100	5997	55,43851367	16,80	1,2235	295,25
1604	4000	0,724	12	100	8999	52,62920289	16,16	1,1605	289,45
1605	4000	0,644	6	100	11998	47,6189522	15,03	1,0491	283,65
1606	4000	0,572	0	100	15000	39,84726319	13,27	0,9097	277,75
1607	4000	0,527	-4	100	17001	35,79301056	12,23	0,8246	273,75
1608	4000	0,485	-8	100	18999	32,99780472	11,37	0,7483	269,75
1609	4000	0,446	-12	100	21001	30,76443555	10,54	0,6724	265,75

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1610	4000	0,410	-16	100	22999	28,48411413	9,73	0,5889	261,85
1611	4000	1,013	30	99,4	0	59,52155174	17,84	1,2040	306,45
1612	4000	0,908	24	99,4	2999	57,3798194	16,85	1,2395	300,85
1613	4000	0,812	18	99,4	5997	54,05279743	15,94	1,2022	295,25
1614	4000	0,724	12	99,4	8999	51,12192403	15,21	1,1373	289,45
1615	4000	0,644	6	99,4	11998	46,10839424	14,09	1,0289	283,65
1616	4000	0,572	0	99,4	15000	38,59662356	12,51	0,8961	277,85
1617	4000	0,527	-4	99,4	17001	34,74325899	11,59	0,8150	273,85
1618	4000	0,485	-8	99,4	18999	32,10678978	10,81	0,7411	269,85
1619	4000	0,446	-12	99,4	21001	29,96857971	10,06	0,6659	265,85
1620	4000	0,410	-16	99,4	22999	27,75546826	9,31	0,5827	261,95
1621	4000	1,013	30	98,8	0	58,463914	17,28	1,1909	306,45
1622	4000	0,908	24	98,8	2999	56,18840528	16,19	1,2219	300,85
1623	4000	0,812	18	98,8	5997	52,78536281	15,20	1,1803	295,25
1624	4000	0,724	12	98,8	8999	49,72471513	14,38	1,1136	289,45
1625	4000	0,644	6	98,8	11998	44,71917275	13,26	1,0091	283,65
1626	4000	0,572	0	98,8	15000	37,53730949	11,84	0,8842	277,95
1627	4000	0,527	-4	98,8	17001	33,88681392	11,03	0,8075	273,95
1628	4000	0,485	-8	98,8	18999	31,38187309	10,33	0,7357	269,95
1629	4000	0,446	-12	98,8	21001	29,31244353	9,65	0,6609	265,95
1630	4000	0,410	-16	98,8	22999	27,15076814	8,96	0,5782	262,05
1631	4000	1,013	30	97,4	0	56,07845628	16,16	1,1572	306,35
1632	4000	0,908	24	97,4	2999	53,59695912	14,98	1,1778	300,65
1633	4000	0,812	18	97,4	5997	50,21430645	13,88	1,1278	295,15
1634	4000	0,724	12	97,4	8999	46,85134587	12,89	1,0577	289,45
1635	4000	0,644	6	97,4	11998	41,90657717	11,78	0,9643	283,75
1636	4000	0,572	0	97,4	15000	35,63911946	10,65	0,8606	278,05
1637	4000	0,527	-4	97,4	17001	32,43728027	10,02	0,7946	274,15
1638	4000	0,485	-8	97,4	18999	30,14678209	9,47	0,7270	270,25
1639	4000	0,446	-12	97,4	21001	28,16040801	8,92	0,6529	266,25
1640	4000	0,410	-16	97,4	22999	26,07509667	8,37	0,5720	262,35
1641	4000	1,013	30	94,1	0	50,24197543	14,34	1,0683	306,25
1642	4000	0,908	24	94,1	2999	47,60238092	13,39	1,0669	300,55
1643	4000	0,812	18	94,1	5997	44,80356757	12,54	1,0076	294,95
1644	4000	0,724	12	94,1	8999	41,12882274	11,50	0,9379	289,35
1645	4000	0,644	6	94,1	11998	36,61069308	10,40	0,8691	283,75
1646	4000	0,572	0	94,1	15000	32,03486599	9,43	0,8033	278,15
1647	4000	0,527	-4	94,1	17001	29,46719793	8,88	0,7552	274,55
1648	4000	0,485	-8	94,1	18999	27,35260365	8,40	0,6973	270,85
1649	4000	0,446	-12	94,1	21001	25,42266867	7,96	0,6300	267,15
1650	4000	0,410	-16	94,1	22999	23,48814461	7,55	0,5582	263,45
1651	4000	1,013	30	84,5	0	39,02281377	11,61	0,8934	306,05
1652	4000	0,908	24	84,5	2999	37,04057966	10,75	0,8714	300,45
1653	4000	0,812	18	84,5	5997	34,37557027	9,84	0,8203	294,85
1654	4000	0,724	12	84,5	8999	30,96923688	8,92	0,7509	289,35
1655	4000	0,644	6	84,5	11998	26,81058998	7,99	0,6722	283,85
1656	4000	0,572	0	84,5	15000	22,5211242	6,96	0,5934	278,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1657	4000	0,527	-4	84,5	17001	19,66116286	6,26	0,5425	274,65
1658	4000	0,485	-8	84,5	18999	17,13340195	5,64	0,4951	270,65
1659	4000	0,446	-12	84,5	21001	15,06242732	5,14	0,4513	266,55
1660	4000	0,410	-16	84,5	22999	13,40868522	4,77	0,4108	262,35
1661	4000	1,013	30	72	0	27,58143063	8,67	0,7619	305,65
1662	4000	0,908	24	72	2999	25,76847204	7,94	0,7163	299,75
1663	4000	0,812	18	72	5997	22,91034144	7,25	0,6442	293,95
1664	4000	0,724	12	72	8999	19,3233888	6,57	0,5645	288,05
1665	4000	0,644	6	72	11998	15,94186016	5,94	0,4925	282,15
1666	4000	0,572	0	72	15000	13,16909609	5,38	0,4312	276,45
1667	4000	0,527	-4	72	17001	11,55860507	5,05	0,3937	272,55
1668	4000	0,485	-8	72	18999	10,11366703	4,76	0,3590	268,75
1669	4000	0,446	-12	72	21001	8,818817905	4,52	0,3277	264,85
1670	4000	0,410	-16	72	22999	7,686636364	4,32	0,3006	260,95
1671	4000	1,013	30	56,5	0	14,07346175	5,85	0,5118	305,45
1672	4000	0,908	24	56,5	2999	12,58959493	5,29	0,4713	299,45
1673	4000	0,812	18	56,5	5997	10,79480768	4,79	0,4316	293,55
1674	4000	0,724	12	56,5	8999	8,653577637	4,31	0,3870	287,65
1675	4000	0,644	6	56,5	11998	6,54649934	3,82	0,3392	281,95
1676	4000	0,572	0	56,5	15000	4,786446081	3,40	0,2965	276,25
1677	4000	0,527	-4	56,5	17001	3,904973298	3,19	0,2730	272,35
1678	4000	0,485	-8	56,5	18999	3,276574162	3,07	0,2545	268,55
1679	4000	0,446	-12	56,5	21001	2,869900873	3,03	0,2414	264,65
1680	4000	0,410	-16	56,5	22999	2,666031172	3,05	0,2335	260,75
1681	3500	1,013	30	100	0	46,3634923	14,09	1,0482	305,15
1682	3500	0,908	24	100	2999	43,60586734	13,43	1,1085	299,45
1683	3500	0,812	18	100	5997	39,87115743	12,75	1,0854	293,65
1684	3500	0,724	12	100	8999	36,64965622	11,90	1,0143	287,95
1685	3500	0,644	6	100	11998	31,83481128	10,54	0,9039	282,35
1686	3500	0,572	0	100	15000	25,05120773	8,84	0,7656	276,85
1687	3500	0,527	-4	100	17001	20,81198524	7,82	0,6716	272,95
1688	3500	0,485	-8	100	18999	17,50013261	6,98	0,5826	269,05
1689	3500	0,446	-12	100	21001	15,04597781	6,30	0,4965	265,05
1690	3500	0,410	-16	100	22999	13,182314	5,73	0,4112	261,15
1691	3500	1,013	30	99,4	0	45,78546782	13,72	1,0450	305,15
1692	3500	0,908	24	99,4	2999	43,0442213	12,99	1,1029	299,35
1693	3500	0,812	18	99,4	5997	39,28726471	12,23	1,0766	293,65
1694	3500	0,724	12	99,4	8999	35,98399012	11,29	1,0039	287,95
1695	3500	0,644	6	99,4	11998	31,1797336	9,88	0,8951	282,35
1696	3500	0,572	0	99,4	15000	24,4574272	8,24	0,7606	276,85
1697	3500	0,527	-4	99,4	17001	20,27125461	7,28	0,6689	272,95
1698	3500	0,485	-8	99,4	18999	17,01595539	6,49	0,5812	269,05
1699	3500	0,446	-12	99,4	21001	14,60705132	5,85	0,4957	265,15
1700	3500	0,410	-16	99,4	22999	12,77498433	5,32	0,4104	261,15
1701	3500	1,013	30	98,8	0	45,25449794	13,40	1,0411	305,15
1702	3500	0,908	24	98,8	2999	42,56965102	12,65	1,0965	299,35
1703	3500	0,812	18	98,8	5997	38,84208747	11,82	1,0671	293,65

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1704	3500	0,724	12	98,8	8999	35,44192122	10,78	0,9929	287,95
1705	3500	0,644	6	98,8	11998	30,62709732	9,34	0,8862	282,35
1706	3500	0,572	0	98,8	15000	24,0142493	7,76	0,7563	276,85
1707	3500	0,527	-4	98,8	17001	19,91193524	6,86	0,6672	273,05
1708	3500	0,485	-8	98,8	18999	16,72384357	6,12	0,5811	269,15
1709	3500	0,446	-12	98,8	21001	14,35752795	5,52	0,4962	265,15
1710	3500	0,410	-16	98,8	22999	12,54682806	5,03	0,4113	261,15
1711	3500	1,013	30	97,4	0	44,15679984	12,86	1,0299	305,15
1712	3500	0,908	24	97,4	2999	41,69999542	12,12	1,0785	299,35
1713	3500	0,812	18	97,4	5997	38,18663198	11,20	1,0424	293,75
1714	3500	0,724	12	97,4	8999	34,53593652	9,99	0,9657	288,05
1715	3500	0,644	6	97,4	11998	29,65454888	8,49	0,8651	282,35
1716	3500	0,572	0	97,4	15000	23,4366751	7,05	0,7478	276,85
1717	3500	0,527	-4	97,4	17001	19,62005633	6,25	0,6660	273,15
1718	3500	0,485	-8	97,4	18999	16,62167411	5,61	0,5840	269,25
1719	3500	0,446	-12	97,4	21001	14,34639768	5,09	0,5010	265,25
1720	3500	0,410	-16	97,4	22999	12,56010688	4,67	0,4178	261,15
1721	3500	1,013	30	94,1	0	41,31764763	12,14	0,9927	305,15
1722	3500	0,908	24	94,1	2999	39,30643051	11,57	1,0217	299,35
1723	3500	0,812	18	94,1	5997	36,50925256	10,81	0,9742	293,65
1724	3500	0,724	12	94,1	8999	32,57332917	9,54	0,8975	287,95
1725	3500	0,644	6	94,1	11998	27,81451782	8,10	0,8123	282,15
1726	3500	0,572	0	94,1	15000	22,84602276	6,84	0,7223	276,45
1727	3500	0,527	-4	94,1	17001	19,87904198	6,16	0,6574	272,45
1728	3500	0,485	-8	94,1	18999	17,43630261	5,60	0,5881	268,55
1729	3500	0,446	-12	94,1	21001	15,43437804	5,15	0,5148	264,45
1730	3500	0,410	-16	94,1	22999	13,71370851	4,79	0,4407	260,35
1731	3500	1,013	30	84,5	0	33,89063355	10,35	0,8995	305,05
1732	3500	0,908	24	84,5	2999	31,62130398	9,45	0,8909	299,15
1733	3500	0,812	18	84,5	5997	28,90442994	8,54	0,8386	293,15
1734	3500	0,724	12	84,5	8999	25,71359515	7,67	0,7599	287,15
1735	3500	0,644	6	84,5	11998	22,01959362	6,82	0,6725	280,95
1736	3500	0,572	0	84,5	15000	18,25297199	5,93	0,5868	275,05
1737	3500	0,527	-4	84,5	17001	15,79789079	5,33	0,5328	271,05
1738	3500	0,485	-8	84,5	18999	13,68524433	4,81	0,4833	267,15
1739	3500	0,446	-12	84,5	21001	11,99829533	4,40	0,4377	263,35
1740	3500	0,410	-16	84,5	22999	10,67539299	4,10	0,3956	259,45
1741	3500	1,013	30	72	0	25,96267896	8,15	0,8123	304,45
1742	3500	0,908	24	72	2999	23,90498692	7,36	0,7770	298,45
1743	3500	0,812	18	72	5997	21,21537797	6,71	0,7068	292,45
1744	3500	0,724	12	72	8999	17,97464236	6,09	0,6227	286,45
1745	3500	0,644	6	72	11998	14,74328621	5,52	0,5430	280,55
1746	3500	0,572	0	72	15000	12,02781775	5,03	0,4735	274,75
1747	3500	0,527	-4	72	17001	10,49162122	4,74	0,4313	270,85
1748	3500	0,485	-8	72	18999	9,173325091	4,49	0,3931	266,95
1749	3500	0,446	-12	72	21001	8,0515507	4,29	0,3592	263,25
1750	3500	0,410	-16	72	22999	7,118995706	4,13	0,3301	259,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1751	3500	1,013	30	56,5	0	14,65669245	5,89	0,5702	304,65
1752	3500	0,908	24	56,5	2999	12,9598534	5,25	0,5342	298,65
1753	3500	0,812	18	56,5	5997	11,09909028	4,68	0,4960	292,65
1754	3500	0,724	12	56,5	8999	9,075479125	4,15	0,4510	286,65
1755	3500	0,644	6	56,5	11998	7,063084467	3,65	0,3996	280,55
1756	3500	0,572	0	56,5	15000	5,262186194	3,22	0,3502	274,75
1757	3500	0,527	-4	56,5	17001	4,324765727	3,02	0,3215	270,85
1758	3500	0,485	-8	56,5	18999	3,660849931	2,89	0,2981	266,95
1759	3500	0,446	-12	56,5	21001	3,25747064	2,86	0,2807	263,15
1760	3500	0,410	-16	56,5	22999	3,089866856	2,90	0,2693	259,35
1761	4000	1,013	45	100	0	59,53641863	18,38	1,1217	321,35
1762	4000	0,908	39	100	2999	57,64115321	17,53	1,1812	315,75
1763	4000	0,812	33	100	5997	54,98459939	16,74	1,1783	310,05
1764	4000	0,724	27	100	8999	52,22920067	16,01	1,1284	304,45
1765	4000	0,644	21	100	11998	46,57221895	14,76	1,0231	298,85
1766	4000	0,572	15	100	15000	37,60956126	12,89	0,8882	292,85
1767	4000	0,527	11	100	17001	33,11491473	11,84	0,8199	288,85
1768	4000	0,485	7	100	18999	30,48447741	11,06	0,7689	284,85
1769	4000	0,446	3	100	21001	28,60784837	10,33	0,7245	280,85
1770	4000	0,410	-1	100	22999	26,62075194	9,57	0,6758	276,95
1771	4000	1,013	45	99,4	0	58,41229244	17,77	1,1087	321,35
1772	4000	0,908	39	99,4	2999	56,35482654	16,79	1,1636	315,65
1773	4000	0,812	33	99,4	5997	53,57112197	15,87	1,1561	310,05
1774	4000	0,724	27	99,4	8999	50,70466538	15,05	1,1035	304,45
1775	4000	0,644	21	99,4	11998	45,07037907	13,81	0,9998	298,85
1776	4000	0,572	15	99,4	15000	36,42679488	12,13	0,8713	292,95
1777	4000	0,527	11	99,4	17001	32,14281186	11,21	0,8074	288,95
1778	4000	0,485	7	99,4	18999	29,64778162	10,50	0,7600	284,95
1779	4000	0,446	3	99,4	21001	27,85304117	9,82	0,7176	280,95
1780	4000	0,410	-1	99,4	22999	25,91215234	9,11	0,6695	277,05
1781	4000	1,013	45	98,8	0	57,30851509	17,21	1,0951	321,25
1782	4000	0,908	39	98,8	2999	55,11773906	16,13	1,1451	315,65
1783	4000	0,812	33	98,8	5997	52,25721717	15,12	1,1332	310,05
1784	4000	0,724	27	98,8	8999	49,27766612	14,21	1,0781	304,45
1785	4000	0,644	21	98,8	11998	43,69555654	12,98	0,9769	298,85
1786	4000	0,572	15	98,8	15000	35,46520136	11,47	0,8562	293,05
1787	4000	0,527	11	98,8	17001	31,39905971	10,65	0,7968	289,05
1788	4000	0,485	7	98,8	18999	28,99760688	10,01	0,7526	285,05
1789	4000	0,446	3	98,8	21001	27,23591982	9,39	0,7115	281,05
1790	4000	0,410	-1	98,8	22999	25,31428764	8,72	0,6635	277,15
1791	4000	1,013	45	97,4	0	54,81569632	16,08	1,0618	321,15
1792	4000	0,908	39	97,4	2999	52,40780559	14,90	1,1000	315,55
1793	4000	0,812	33	97,4	5997	49,52688891	13,78	1,0782	309,95
1794	4000	0,724	27	97,4	8999	46,30322703	12,71	1,0183	304,35
1795	4000	0,644	21	97,4	11998	40,92749728	11,50	0,9257	298,85
1796	4000	0,572	15	97,4	15000	33,85352436	10,30	0,8258	293,25
1797	4000	0,527	11	97,4	17001	30,28148518	9,66	0,7766	289,35

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1798	4000	0,485	7	97,4	18999	27,97458369	9,13	0,7378	285,45
1799	4000	0,446	3	97,4	21001	26,15894346	8,60	0,6981	281,55
1800	4000	0,410	-1	97,4	22999	24,2146975	8,04	0,6498	277,65
1801	4000	1,013	45	94,1	0	48,79484289	14,24	0,9810	321,05
1802	4000	0,908	39	94,1	2999	46,18558313	13,26	0,9923	315,45
1803	4000	0,812	33	94,1	5997	43,73045286	12,38	0,9544	309,85
1804	4000	0,724	27	94,1	8999	40,35848397	11,31	0,8910	304,35
1805	4000	0,644	21	94,1	11998	35,68769124	10,15	0,8199	298,95
1806	4000	0,572	15	94,1	15000	30,68280305	9,13	0,7573	293,55
1807	4000	0,527	11	94,1	17001	27,81428583	8,55	0,7228	289,95
1808	4000	0,485	7	94,1	18999	25,48798229	8,03	0,6896	286,45
1809	4000	0,446	3	94,1	21001	23,46810432	7,56	0,6513	282,85
1810	4000	0,410	-1	94,1	22999	21,51122082	7,13	0,6053	279,15
1811	4000	1,013	45	84,5	0	37,6403401	11,50	0,8450	321,05
1812	4000	0,908	39	84,5	2999	35,66526104	10,62	0,8248	315,45
1813	4000	0,812	33	84,5	5997	33,20702714	9,69	0,7775	309,85
1814	4000	0,724	27	84,5	8999	29,88411894	8,74	0,7111	304,45
1815	4000	0,644	21	84,5	11998	25,56576906	7,76	0,6358	299,05
1816	4000	0,572	15	84,5	15000	20,94533703	6,69	0,5611	293,35
1817	4000	0,527	11	84,5	17001	17,906152	5,97	0,5136	289,45
1818	4000	0,485	7	84,5	18999	15,23933962	5,33	0,4710	285,35
1819	4000	0,446	3	84,5	21001	13,09454302	4,81	0,4338	281,45
1820	4000	0,410	-1	84,5	22999	11,4277609	4,42	0,4007	277,35
1821	4000	1,013	45	72	0	26,70217606	8,51	0,7469	320,55
1822	4000	0,908	39	72	2999	24,76369044	7,74	0,7044	314,95
1823	4000	0,812	33	72	5997	21,95699071	7,04	0,6345	308,95
1824	4000	0,724	27	72	8999	18,4486127	6,36	0,5540	302,95
1825	4000	0,644	21	72	11998	15,08535321	5,73	0,4810	297,05
1826	4000	0,572	15	72	15000	12,32949331	5,18	0,4211	291,25
1827	4000	0,527	11	72	17001	10,74884405	4,85	0,3860	287,25
1828	4000	0,485	7	72	18999	9,342165977	4,57	0,3542	283,35
1829	4000	0,446	3	72	21001	8,078952043	4,33	0,3252	279,55
1830	4000	0,410	-1	72	22999	6,956533777	4,14	0,2990	275,65
1831	4000	1,013	45	56,5	0	13,86333281	5,88	0,5188	320,15
1832	4000	0,908	39	56,5	2999	12,33107767	5,30	0,4744	314,35
1833	4000	0,812	33	56,5	5997	10,58058322	4,79	0,4321	308,45
1834	4000	0,724	27	56,5	8999	8,487050987	4,29	0,3874	302,55
1835	4000	0,644	21	56,5	11998	6,366422391	3,79	0,3403	296,55
1836	4000	0,572	15	56,5	15000	4,548903244	3,35	0,2974	290,75
1837	4000	0,527	11	56,5	17001	3,620652339	3,12	0,2738	286,85
1838	4000	0,485	7	56,5	18999	2,950958486	2,98	0,2547	283,05
1839	4000	0,446	3	56,5	21001	2,502503122	2,92	0,2398	279,25
1840	4000	0,410	-1	56,5	22999	2,251949082	2,95	0,2292	275,45
1841	3500	1,013	45	100	0	45,64223235	14,09	0,9314	320,25
1842	3500	0,908	39	100	2999	42,9582262	13,42	1,0003	314,45
1843	3500	0,812	33	100	5997	39,53486492	12,73	1,0086	308,65
1844	3500	0,724	27	100	8999	36,31928679	11,80	0,9608	302,95

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1845	3500	0,644	21	100	11998	31,32098796	10,37	0,8654	297,25
1846	3500	0,572	15	100	15000	24,19296209	8,67	0,7492	291,55
1847	3500	0,527	11	100	17001	19,71579365	7,66	0,6769	287,45
1848	3500	0,485	7	100	18999	16,28692219	6,85	0,6143	283,35
1849	3500	0,446	3	100	21001	13,83487881	6,20	0,5583	279,35
1850	3500	0,410	-1	100	22999	11,97677165	5,64	0,5026	275,35
1851	3500	1,013	45	99,4	0	44,99225602	13,71	0,9260	320,25
1852	3500	0,908	39	99,4	2999	42,31044925	12,98	0,9921	314,45
1853	3500	0,812	33	99,4	5997	38,88642663	12,20	0,9972	308,65
1854	3500	0,724	27	99,4	8999	35,62587119	11,18	0,9476	302,95
1855	3500	0,644	21	99,4	11998	30,66644966	9,70	0,8532	297,25
1856	3500	0,572	15	99,4	15000	23,61256915	8,06	0,7403	291,65
1857	3500	0,527	11	99,4	17001	19,18198642	7,12	0,6707	287,55
1858	3500	0,485	7	99,4	18999	15,80848014	6,36	0,6103	283,45
1859	3500	0,446	3	99,4	21001	13,40027978	5,75	0,5557	279,35
1860	3500	0,410	-1	99,4	22999	11,57171319	5,22	0,5007	275,35
1861	3500	1,013	45	98,8	0	44,38656315	13,38	0,9204	320,25
1862	3500	0,908	39	98,8	2999	41,74119864	12,62	0,9835	314,45
1863	3500	0,812	33	98,8	5997	38,36448237	11,78	0,9854	308,65
1864	3500	0,724	27	98,8	8999	35,04946761	10,68	0,9341	302,95
1865	3500	0,644	21	98,8	11998	30,10860381	9,16	0,8412	297,35
1866	3500	0,572	15	98,8	15000	23,18123897	7,57	0,7325	291,65
1867	3500	0,527	11	98,8	17001	18,83388986	6,68	0,6657	287,65
1868	3500	0,485	7	98,8	18999	15,52387539	5,97	0,6075	283,55
1869	3500	0,446	3	98,8	21001	13,14954887	5,40	0,5540	279,45
1870	3500	0,410	-1	98,8	22999	11,33638991	4,91	0,4995	275,45
1871	3500	1,013	45	97,4	0	43,11406241	12,81	0,9072	320,35
1872	3500	0,908	39	97,4	2999	40,64012225	12,05	0,9622	314,55
1873	3500	0,812	33	97,4	5997	37,50350443	11,12	0,9565	308,75
1874	3500	0,724	27	97,4	8999	34,04708147	9,87	0,9021	303,05
1875	3500	0,644	21	97,4	11998	29,10541575	8,32	0,8144	297,35
1876	3500	0,572	15	97,4	15000	22,61541775	6,85	0,7167	291,75
1877	3500	0,527	11	97,4	17001	18,56628946	6,07	0,6570	287,85
1878	3500	0,485	7	97,4	18999	15,43138908	5,43	0,6034	283,65
1879	3500	0,446	3	97,4	21001	13,11551034	4,92	0,5521	279,55
1880	3500	0,410	-1	97,4	22999	11,30345024	4,49	0,4984	275,55
1881	3500	1,013	45	94,1	0	39,99711271	12,05	0,8762	320,45
1882	3500	0,908	39	94,1	2999	37,92248585	11,44	0,9098	314,65
1883	3500	0,812	33	94,1	5997	35,45821924	10,66	0,8882	308,85
1884	3500	0,724	27	94,1	8999	31,88257957	9,39	0,8297	303,05
1885	3500	0,644	21	94,1	11998	27,11599856	7,92	0,7553	297,25
1886	3500	0,572	15	94,1	15000	21,90121153	6,64	0,6807	291,35
1887	3500	0,527	11	94,1	17001	18,72204991	5,94	0,6339	287,25
1888	3500	0,485	7	94,1	18999	16,11045556	5,36	0,5890	283,15
1889	3500	0,446	3	94,1	21001	14,01440647	4,89	0,5430	279,05
1890	3500	0,410	-1	94,1	22999	12,25132855	4,51	0,4936	274,95
1891	3500	1,013	45	84,5	0	32,72808786	10,25	0,8373	320,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1892	3500	0,908	39	84,5	2999	30,49790991	9,33	0,8322	314,65
1893	3500	0,812	33	84,5	5997	27,94796319	8,40	0,7889	308,55
1894	3500	0,724	27	84,5	8999	24,78781898	7,50	0,7179	302,15
1895	3500	0,644	21	84,5	11998	20,84934187	6,61	0,6366	295,95
1896	3500	0,572	15	84,5	15000	16,73705039	5,68	0,5571	289,85
1897	3500	0,527	11	84,5	17001	14,12462572	5,07	0,5072	285,85
1898	3500	0,485	7	84,5	18999	11,89735886	4,53	0,4632	281,75
1899	3500	0,446	3	84,5	21001	10,15540768	4,11	0,4250	277,85
1900	3500	0,410	-1	84,5	22999	8,83327442	3,79	0,3911	273,95
1901	3500	1,013	45	72	0	25,134173	8,01	0,7907	319,55
1902	3500	0,908	39	72	2999	22,98253984	7,19	0,7596	313,65
1903	3500	0,812	33	72	5997	20,33897554	6,52	0,6939	307,55
1904	3500	0,724	27	72	8999	17,19137993	5,91	0,6112	301,45
1905	3500	0,644	21	72	11998	13,98317396	5,34	0,5324	295,45
1906	3500	0,572	15	72	15000	11,26350388	4,85	0,4649	289,55
1907	3500	0,527	11	72	17001	9,728811521	4,56	0,4250	285,55
1908	3500	0,485	7	72	18999	8,415569496	4,32	0,3891	281,55
1909	3500	0,446	3	72	21001	7,295992055	4,12	0,3570	277,65
1910	3500	0,410	-1	72	22999	6,354974507	3,97	0,3288	273,85
1911	3500	1,013	45	56,5	0	14,40278814	5,91	0,5722	319,45
1912	3500	0,908	39	56,5	2999	12,68411229	5,25	0,5331	313,55
1913	3500	0,812	33	56,5	5997	10,87593835	4,68	0,4936	307,75
1914	3500	0,724	27	56,5	8999	8,892078405	4,14	0,4500	301,75
1915	3500	0,644	21	56,5	11998	6,874292103	3,63	0,4014	295,65
1916	3500	0,572	15	56,5	15000	5,046410728	3,18	0,3533	289,65
1917	3500	0,527	11	56,5	17001	4,070956716	2,96	0,3246	285,55
1918	3500	0,485	7	56,5	18999	3,360537208	2,82	0,3003	281,55
1919	3500	0,446	3	56,5	21001	2,903276329	2,77	0,2809	277,75
1920	3500	0,410	-1	56,5	22999	2,675935736	2,80	0,2664	273,85
1921	3000	1,013	0	100	0	33,69341661	10,07	0,9538	275,35
1922	3000	0,908	-6	100	2999	31,222568	9,67	0,9648	269,55
1923	3000	0,812	-12	100	5997	28,35774881	9,32	0,8819	263,55
1924	3000	0,724	-18	100	8999	25,74186462	8,79	0,7678	257,55
1925	3000	0,644	-24	100	11998	22,42379797	7,91	0,6224	251,45
1926	3000	0,572	-30	100	15000	18,09274578	6,77	0,4545	245,25
1927	3000	0,527	-34	100	17001	15,0937036	5,99	0,3433	241,15
1928	3000	0,485	-38	100	18999	12,46816467	5,29	0,2438	236,95
1929	3000	0,446	-42	100	21001	10,39884415	4,71	0,1621	232,95
1930	3000	0,410	-46	100	22999	8,881948713	4,28	0,1020	228,95
1931	3000	1,013	0	99,4	0	33,54097517	9,86	0,9629	275,35
1932	3000	0,908	-6	99,4	2999	31,13345126	9,44	0,9742	269,55
1933	3000	0,812	-12	99,4	5997	28,18882793	9,03	0,8874	263,55
1934	3000	0,724	-18	99,4	8999	25,47715517	8,42	0,7703	257,55
1935	3000	0,644	-24	99,4	11998	22,12344664	7,48	0,6242	251,45
1936	3000	0,572	-30	99,4	15000	17,80004245	6,34	0,4564	245,25
1937	3000	0,527	-34	99,4	17001	14,81937641	5,59	0,3452	241,15
1938	3000	0,485	-38	99,4	18999	12,21351891	4,91	0,2455	236,95

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1939	3000	0,446	-42	99,4	21001	10,15833532	4,36	0,1633	232,95
1940	3000	0,410	-46	99,4	22999	8,647800798	3,95	0,1028	228,95
1941	3000	1,013	0	98,8	0	33,4532747	9,73	0,9712	275,35
1942	3000	0,908	-6	98,8	2999	31,13893409	9,30	0,9832	269,45
1943	3000	0,812	-12	98,8	5997	28,1162362	8,83	0,8925	263,55
1944	3000	0,724	-18	98,8	8999	25,29603111	8,13	0,7725	257,45
1945	3000	0,644	-24	98,8	11998	21,89901009	7,13	0,6262	251,45
1946	3000	0,572	-30	98,8	15000	17,60156502	5,99	0,4593	245,25
1947	3000	0,527	-34	98,8	17001	14,65685193	5,26	0,3485	241,25
1948	3000	0,485	-38	98,8	18999	12,08507148	4,61	0,2490	236,95
1949	3000	0,446	-42	98,8	21001	10,05075473	4,09	0,1666	232,95
1950	3000	0,410	-46	98,8	22999	8,54622464	3,70	0,1056	228,95
1951	3000	1,013	0	97,4	0	33,42411334	9,63	0,9865	275,35
1952	3000	0,908	-6	97,4	2999	31,37351737	9,21	1,0003	269,45
1953	3000	0,812	-12	97,4	5997	28,19821719	8,60	0,9023	263,55
1954	3000	0,724	-18	97,4	8999	25,10986064	7,70	0,7767	257,55
1955	3000	0,644	-24	97,4	11998	21,61194106	6,58	0,6313	251,45
1956	3000	0,572	-30	97,4	15000	17,44348845	5,46	0,4689	245,25
1957	3000	0,527	-34	97,4	17001	14,64270899	4,78	0,3607	241,25
1958	3000	0,485	-38	97,4	18999	12,19415311	4,21	0,2628	237,05
1959	3000	0,446	-42	97,4	21001	10,2308642	3,75	0,1808	232,95
1960	3000	0,410	-46	97,4	22999	8,739671635	3,41	0,1191	229,05
1961	3000	1,013	0	94,1	0	33,03534968	9,82	0,9932	275,25
1962	3000	0,908	-6	94,1	2999	31,19436206	9,42	1,0004	269,35
1963	3000	0,812	-12	94,1	5997	28,03657184	8,72	0,9028	263,45
1964	3000	0,724	-18	94,1	8999	24,67872924	7,66	0,7767	257,45
1965	3000	0,644	-24	94,1	11998	21,28526671	6,47	0,6412	251,35
1966	3000	0,572	-30	94,1	15000	17,80208998	5,41	0,4975	245,15
1967	3000	0,527	-34	94,1	17001	15,56803713	4,83	0,4015	241,15
1968	3000	0,485	-38	94,1	18999	13,57698478	4,36	0,3127	236,95
1969	3000	0,446	-42	94,1	21001	11,8738407	4,00	0,2358	233,05
1970	3000	0,410	-46	94,1	22999	10,44737237	3,72	0,1750	228,95
1971	3000	1,013	0	84,5	0	29,45490968	9,25	0,9202	274,75
1972	3000	0,908	-6	84,5	2999	26,67208604	8,38	0,8968	268,85
1973	3000	0,812	-12	84,5	5997	23,66039102	7,59	0,8254	262,85
1974	3000	0,724	-18	84,5	8999	20,9933138	6,89	0,7292	256,95
1975	3000	0,644	-24	84,5	11998	18,70812505	6,24	0,6264	250,95
1976	3000	0,572	-30	84,5	15000	16,48806206	5,59	0,5277	245,05
1977	3000	0,527	-34	84,5	17001	15,01860406	5,18	0,4654	240,95
1978	3000	0,485	-38	84,5	18999	13,67578366	4,82	0,4082	237,05
1979	3000	0,446	-42	84,5	21001	12,50543185	4,55	0,3571	233,05
1980	3000	0,410	-46	84,5	22999	11,49234367	4,34	0,3138	229,05
1981	3000	1,013	0	72	0	25,05033628	7,95	0,8413	274,75
1982	3000	0,908	-6	72	2999	22,78156142	7,16	0,8030	268,85
1983	3000	0,812	-12	72	5997	20,14681488	6,51	0,7357	262,95
1984	3000	0,724	-18	72	8999	17,26163761	5,94	0,6545	256,95
1985	3000	0,644	-24	72	11998	14,49404514	5,44	0,5727	251,05

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
1986	3000	0,572	-30	72	15000	12,16381165	5,02	0,4983	244,95
1987	3000	0,527	-34	72	17001	10,8623752	4,78	0,4537	241,05
1988	3000	0,485	-38	72	18999	9,792043822	4,59	0,4150	237,15
1989	3000	0,446	-42	72	21001	8,946764719	4,45	0,3825	233,05
1990	3000	0,410	-46	72	22999	8,292635018	4,35	0,3563	229,15
1991	3000	1,013	0	56,5	0	15,86141276	6,05	0,6256	274,95
1992	3000	0,908	-6	56,5	2999	13,98664782	5,35	0,5944	269,05
1993	3000	0,812	-12	56,5	5997	12,07317943	4,75	0,5561	263,15
1994	3000	0,724	-18	56,5	8999	10,13969973	4,21	0,5083	257,25
1995	3000	0,644	-24	56,5	11998	8,253228183	3,75	0,4559	251,25
1996	3000	0,572	-30	56,5	15000	6,686637699	3,41	0,4095	245,45
1997	3000	0,527	-34	56,5	17001	5,938939901	3,27	0,3845	241,45
1998	3000	0,485	-38	56,5	18999	5,476767619	3,22	0,3658	237,45
1999	3000	0,446	-42	56,5	21001	5,282657006	3,23	0,3531	233,45
2000	3000	0,410	-46	56,5	22999	5,297958564	3,31	0,3455	229,55
2081	3000	1,013	15	100	0	33,25200381	10,03	0,9137	290,35
2082	3000	0,908	9	100	2999	30,72934677	9,62	0,9688	284,45
2083	3000	0,812	3	100	5997	27,88263779	9,25	0,9292	278,65
2084	3000	0,724	-3	100	8999	25,45462688	8,69	0,8436	272,65
2085	3000	0,644	-9	100	11998	22,28828356	7,79	0,7245	266,85
2086	3000	0,572	-15	100	15000	17,7629493	6,66	0,5731	260,65
2087	3000	0,527	-19	100	17001	14,45781647	5,87	0,4651	256,45
2088	3000	0,485	-23	100	18999	11,5040662	5,14	0,3613	252,25
2089	3000	0,446	-27	100	21001	9,147381902	4,54	0,2676	248,05
2090	3000	0,410	-31	100	22999	7,42253785	4,08	0,1887	244,05
2091	3000	1,013	15	99,4	0	33,06088717	9,82	0,9205	290,35
2092	3000	0,908	9	99,4	2999	30,62378883	9,38	0,9759	284,45
2093	3000	0,812	3	99,4	5997	27,73325593	8,96	0,9332	278,65
2094	3000	0,724	-3	99,4	8999	25,22982415	8,31	0,8449	272,65
2095	3000	0,644	-9	99,4	11998	22,03840509	7,34	0,7254	266,85
2096	3000	0,572	-15	99,4	15000	17,51572107	6,21	0,5750	260,65
2097	3000	0,527	-19	99,4	17001	14,2250132	5,44	0,4675	256,45
2098	3000	0,485	-23	99,4	18999	11,28968764	4,75	0,3638	252,25
2099	3000	0,446	-27	99,4	21001	8,946964331	4,18	0,2700	248,05
2100	3000	0,410	-31	99,4	22999	7,227136789	3,74	0,1906	244,05
2101	3000	1,013	15	98,8	0	32,93444031	9,68	0,9267	290,35
2102	3000	0,908	9	98,8	2999	30,61182167	9,24	0,9823	284,45
2103	3000	0,812	3	98,8	5997	27,68912179	8,75	0,9367	278,65
2104	3000	0,724	-3	98,8	8999	25,09018302	8,01	0,8457	272,65
2105	3000	0,644	-9	98,8	11998	21,8529215	6,98	0,7261	266,85
2106	3000	0,572	-15	98,8	15000	17,34975774	5,84	0,5773	260,65
2107	3000	0,527	-19	98,8	17001	14,09681123	5,10	0,4708	256,45
2108	3000	0,485	-23	98,8	18999	11,19969473	4,44	0,3677	252,25
2109	3000	0,446	-27	98,8	21001	8,882037037	3,90	0,2740	248,05
2110	3000	0,410	-31	98,8	22999	7,169657208	3,49	0,1945	244,05
2111	3000	1,013	15	97,4	0	32,81942595	9,57	0,9387	290,35
2112	3000	0,908	9	97,4	2999	30,81099312	9,14	0,9934	284,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
2113	3000	0,812	3	97,4	5997	27,85734916	8,52	0,9418	278,65
2114	3000	0,724	-3	97,4	8999	24,99843592	7,58	0,8454	272,65
2115	3000	0,644	-9	97,4	11998	21,61504218	6,42	0,7265	266,75
2116	3000	0,572	-15	97,4	15000	17,2235162	5,27	0,5835	260,65
2117	3000	0,527	-19	97,4	17001	14,13443635	4,59	0,4809	256,45
2118	3000	0,485	-23	97,4	18999	11,38953882	4,00	0,3806	252,25
2119	3000	0,446	-27	97,4	21001	9,166302747	3,53	0,2886	248,05
2120	3000	0,410	-31	97,4	22999	7,479664514	3,17	0,2095	244,15
2121	3000	1,013	15	94,1	0	32,31154041	9,73	0,9474	290,35
2122	3000	0,908	9	94,1	2999	30,64614819	9,33	0,9885	284,45
2123	3000	0,812	3	94,1	5997	27,84905582	8,63	0,9303	278,65
2124	3000	0,724	-3	94,1	8999	24,65596139	7,54	0,8309	272,65
2125	3000	0,644	-9	94,1	11998	21,20810175	6,30	0,7192	266,45
2126	3000	0,572	-15	94,1	15000	17,48986466	5,21	0,5954	260,35
2127	3000	0,527	-19	94,1	17001	15,06077077	4,60	0,5071	256,25
2128	3000	0,485	-23	94,1	18999	12,89132215	4,11	0,4192	252,05
2129	3000	0,446	-27	94,1	21001	11,02947327	3,73	0,3364	248,15
2130	3000	0,410	-31	94,1	22999	9,467344343	3,44	0,2627	244,15
2131	3000	1,013	15	84,5	0	28,6854059	9,13	0,9078	289,85
2132	3000	0,908	9	84,5	2999	26,03977595	8,24	0,8999	284,05
2133	3000	0,812	3	84,5	5997	23,20103477	7,42	0,8408	277,95
2134	3000	0,724	-3	84,5	8999	20,51892223	6,70	0,7538	271,85
2135	3000	0,644	-9	84,5	11998	17,99397121	6,01	0,6583	265,95
2136	3000	0,572	-15	84,5	15000	15,52009519	5,34	0,5652	260,05
2137	3000	0,527	-19	84,5	17001	13,90922387	4,91	0,5058	255,95
2138	3000	0,485	-23	84,5	18999	12,46303318	4,53	0,4501	252,15
2139	3000	0,446	-27	84,5	21001	11,22911912	4,24	0,3989	248,15
2140	3000	0,410	-31	84,5	22999	10,20363086	4,03	0,3528	244,05
2141	3000	1,013	15	72	0	24,29698335	7,80	0,8476	289,65
2142	3000	0,908	9	72	2999	22,00057498	6,98	0,8146	283,75
2143	3000	0,812	3	72	5997	19,40343825	6,32	0,7479	277,85
2144	3000	0,724	-3	72	8999	16,53118006	5,75	0,6652	271,85
2145	3000	0,644	-9	72	11998	13,71143305	5,25	0,5824	265,95
2146	3000	0,572	-15	72	15000	11,311919	4,82	0,5071	260,05
2147	3000	0,527	-19	72	17001	9,966371814	4,58	0,4615	256,05
2148	3000	0,485	-23	72	18999	8,853544904	4,39	0,4210	252,15
2149	3000	0,446	-27	72	21001	7,966384103	4,24	0,3863	248,15
2150	3000	0,410	-31	72	22999	7,291975537	4,15	0,3574	244,15
2151	3000	1,013	15	56,5	0	15,36454167	6,02	0,6256	289,85
2152	3000	0,908	9	56,5	2999	13,48643292	5,31	0,5944	283,95
2153	3000	0,812	3	56,5	5997	11,57345158	4,70	0,5568	278,05
2154	3000	0,724	-3	56,5	8999	9,611847149	4,15	0,5094	272,15
2155	3000	0,644	-9	56,5	11998	7,672240958	3,67	0,4554	266,15
2156	3000	0,572	-15	56,5	15000	6,004344469	3,31	0,4045	260,35
2157	3000	0,527	-19	56,5	17001	5,183966846	3,15	0,3757	256,35
2158	3000	0,485	-23	56,5	18999	4,654955435	3,08	0,3529	252,35
2159	3000	0,446	-27	56,5	21001	4,400454358	3,08	0,3365	248,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
2160	3000	0,410	-31	56,5	22999	4,383787118	3,15	0,3261	244,45
2241	3000	1,013	30	100	0	32,81556802	10,04	0,8069	305,35
2242	3000	0,908	24	100	2999	30,24344477	9,61	0,8868	299,45
2243	3000	0,812	18	100	5997	27,48426311	9,23	0,8945	293,55
2244	3000	0,724	12	100	8999	25,22952471	8,63	0,8464	287,55
2245	3000	0,644	6	100	11998	22,27750977	7,70	0,7605	281,55
2246	3000	0,572	0	100	15000	17,76787297	6,59	0,6441	275,45
2247	3000	0,527	-4	100	17001	14,24163844	5,80	0,5562	271,35
2248	3000	0,485	-8	100	18999	10,99164408	5,07	0,4683	267,35
2249	3000	0,446	-12	100	21001	8,36643457	4,45	0,3839	263,25
2250	3000	0,410	-16	100	22999	6,409211059	3,96	0,3053	259,25
2251	3000	1,013	30	99,4	0	32,56032791	9,82	0,8104	305,35
2252	3000	0,908	24	99,4	2999	30,07417252	9,37	0,8896	299,45
2253	3000	0,812	18	99,4	5997	27,31014852	8,93	0,8950	293,55
2254	3000	0,724	12	99,4	8999	25,01102783	8,24	0,8449	287,55
2255	3000	0,644	6	99,4	11998	22,05559683	7,24	0,7590	281,55
2256	3000	0,572	0	99,4	15000	17,54194477	6,12	0,6441	275,45
2257	3000	0,527	-4	99,4	17001	14,02541334	5,36	0,5573	271,35
2258	3000	0,485	-8	99,4	18999	10,79484875	4,66	0,4702	267,35
2259	3000	0,446	-12	99,4	21001	8,185121744	4,08	0,3861	263,25
2260	3000	0,410	-16	99,4	22999	6,234477538	3,61	0,3075	259,25
2261	3000	1,013	30	98,8	0	32,36848932	9,67	0,8140	305,35
2262	3000	0,908	24	98,8	2999	29,99303619	9,21	0,8921	299,45
2263	3000	0,812	18	98,8	5997	27,24419316	8,71	0,8950	293,55
2264	3000	0,724	12	98,8	8999	24,87737409	7,93	0,8429	287,55
2265	3000	0,644	6	98,8	11998	21,88240923	6,87	0,7571	281,55
2266	3000	0,572	0	98,8	15000	17,37544392	5,74	0,6441	275,45
2267	3000	0,527	-4	98,8	17001	13,89621987	5,00	0,5588	271,45
2268	3000	0,485	-8	98,8	18999	10,71137028	4,34	0,4728	267,35
2269	3000	0,446	-12	98,8	21001	8,133087793	3,78	0,3893	263,25
2270	3000	0,410	-16	98,8	22999	6,19482954	3,35	0,3109	259,25
2271	3000	1,013	30	97,4	0	32,10575018	9,53	0,8224	305,35
2272	3000	0,908	24	97,4	2999	30,03273329	9,09	0,8963	299,45
2273	3000	0,812	18	97,4	5997	27,37303141	8,46	0,8931	293,55
2274	3000	0,724	12	97,4	8999	24,79461598	7,49	0,8366	287,55
2275	3000	0,644	6	97,4	11998	21,62188266	6,29	0,7513	281,45
2276	3000	0,572	0	97,4	15000	17,18091478	5,14	0,6438	275,45
2277	3000	0,527	-4	97,4	17001	13,8786851	4,46	0,5629	271,45
2278	3000	0,485	-8	97,4	18999	10,87969008	3,86	0,4805	267,35
2279	3000	0,446	-12	97,4	21001	8,425360168	3,38	0,3994	263,25
2280	3000	0,410	-16	97,4	22999	6,535662512	3,00	0,3225	259,25
2281	3000	1,013	30	94,1	0	31,39077208	9,66	0,8377	305,35
2282	3000	0,908	24	94,1	2999	29,7413576	9,24	0,8934	299,45
2283	3000	0,812	18	94,1	5997	27,34286523	8,53	0,8756	293,45
2284	3000	0,724	12	94,1	8999	24,41151176	7,43	0,8121	287,45
2285	3000	0,644	6	94,1	11998	20,98829237	6,16	0,7300	281,45
2286	3000	0,572	0	94,1	15000	17,11317022	5,04	0,6369	275,45

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
2287	3000	0,527	-4	94,1	17001	14,52437229	4,42	0,5688	271,35
2288	3000	0,485	-8	94,1	18999	12,20528147	3,91	0,4983	267,25
2289	3000	0,446	-12	94,1	21001	10,22041844	3,51	0,4272	263,25
2290	3000	0,410	-16	94,1	22999	8,543824884	3,20	0,3579	259,15
2291	3000	1,013	30	84,5	0	27,83121782	9,03	0,8609	305,15
2292	3000	0,908	24	84,5	2999	25,28577468	8,11	0,8647	299,15
2293	3000	0,812	18	84,5	5997	22,60947761	7,28	0,8192	293,05
2294	3000	0,724	12	84,5	8999	19,90684227	6,52	0,7430	286,95
2295	3000	0,644	6	84,5	11998	17,11366858	5,81	0,6572	280,85
2296	3000	0,572	0	84,5	15000	14,36315663	5,11	0,5729	274,95
2297	3000	0,527	-4	84,5	17001	12,62042991	4,66	0,5190	270,95
2298	3000	0,485	-8	84,5	18999	11,08599037	4,27	0,4691	267,05
2299	3000	0,446	-12	84,5	21001	9,805932723	3,96	0,4230	263,05
2300	3000	0,410	-16	84,5	22999	8,764808639	3,74	0,3807	259,15
2301	3000	1,013	30	72	0	23,54543019	7,66	0,8381	304,65
2302	3000	0,908	24	72	2999	21,19729375	6,82	0,8113	298,65
2303	3000	0,812	18	72	5997	18,6376637	6,14	0,7473	292,65
2304	3000	0,724	12	72	8999	15,8122247	5,57	0,6645	286,75
2305	3000	0,644	6	72	11998	12,97310456	5,07	0,5821	280,85
2306	3000	0,572	0	72	15000	10,52753675	4,64	0,5081	274,95
2307	3000	0,527	-4	72	17001	9,149922505	4,40	0,4633	270,95
2308	3000	0,485	-8	72	18999	8,005055712	4,21	0,4232	267,05
2309	3000	0,446	-12	72	21001	7,085177577	4,07	0,3882	263,05
2310	3000	0,410	-16	72	22999	6,376930134	3,97	0,3584	259,15
2311	3000	1,013	30	56,5	0	14,98185886	6,01	0,6241	304,75
2312	3000	0,908	24	56,5	2999	13,09774	5,30	0,5918	298,85
2313	3000	0,812	18	56,5	5997	11,2083743	4,67	0,5546	292,85
2314	3000	0,724	12	56,5	8999	9,247358436	4,11	0,5089	287,05
2315	3000	0,644	6	56,5	11998	7,280833542	3,62	0,4560	281,05
2316	3000	0,572	0	56,5	15000	5,54209958	3,23	0,4037	275,15
2317	3000	0,527	-4	56,5	17001	4,661042305	3,06	0,3727	271,25
2318	3000	0,485	-8	56,5	18999	4,072031576	2,98	0,3470	267,25
2319	3000	0,446	-12	56,5	21001	3,757425675	2,97	0,3274	263,35
2320	3000	0,410	-16	56,5	22999	3,682967039	3,03	0,3137	259,35
2401	3000	1,013	45	100	0	32,4813354	10,09	0,6861	320,15
2402	3000	0,908	39	100	2999	29,87978037	9,64	0,7663	314,25
2403	3000	0,812	33	100	5997	27,25664093	9,24	0,8028	308,25
2404	3000	0,724	27	100	8999	25,05107569	8,59	0,7857	302,25
2405	3000	0,644	21	100	11998	22,19576067	7,64	0,7288	296,15
2406	3000	0,572	15	100	15000	17,86005596	6,55	0,6482	290,25
2407	3000	0,527	11	100	17001	14,27794681	5,78	0,5834	286,15
2408	3000	0,485	7	100	18999	10,81750268	5,04	0,5169	282,15
2409	3000	0,446	3	100	21001	7,978254944	4,41	0,4529	278,15
2410	3000	0,410	-1	100	22999	5,822872782	3,90	0,3915	274,15
2411	3000	1,013	45	99,4	0	32,15022717	9,86	0,6868	320,15
2412	3000	0,908	39	99,4	2999	29,61869684	9,39	0,7656	314,25
2413	3000	0,812	33	99,4	5997	27,01635103	8,93	0,8000	308,25

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
2414	3000	0,724	27	99,4	8999	24,79684069	8,20	0,7813	302,25
2415	3000	0,644	21	99,4	11998	21,95889515	7,18	0,7242	296,15
2416	3000	0,572	15	99,4	15000	17,61415342	6,07	0,6447	290,25
2417	3000	0,527	11	99,4	17001	14,0374989	5,33	0,5814	286,15
2418	3000	0,485	7	99,4	18999	10,60664738	4,63	0,5163	282,15
2419	3000	0,446	3	99,4	21001	7,787494766	4,03	0,4532	278,15
2420	3000	0,410	-1	99,4	22999	5,64263963	3,55	0,3923	274,15
2421	3000	1,013	45	98,8	0	31,88007812	9,70	0,6881	320,15
2422	3000	0,908	39	98,8	2999	29,43971037	9,22	0,7652	314,25
2423	3000	0,812	33	98,8	5997	26,87851555	8,70	0,7971	308,25
2424	3000	0,724	27	98,8	8999	24,62501691	7,89	0,7766	302,15
2425	3000	0,644	21	98,8	11998	21,76205154	6,80	0,7194	296,15
2426	3000	0,572	15	98,8	15000	17,40989324	5,68	0,6412	290,25
2427	3000	0,527	11	98,8	17001	13,86675252	4,96	0,5796	286,15
2428	3000	0,485	7	98,8	18999	10,49296946	4,29	0,5160	282,15
2429	3000	0,446	3	98,8	21001	7,713528255	3,73	0,4540	278,15
2430	3000	0,410	-1	98,8	22999	5,587907821	3,28	0,3938	274,15
2431	3000	1,013	45	97,4	0	31,43645203	9,53	0,6934	320,15
2432	3000	0,908	39	97,4	2999	29,25115813	9,06	0,7650	314,15
2433	3000	0,812	33	97,4	5997	26,83436417	8,42	0,7903	308,15
2434	3000	0,724	27	97,4	8999	24,44703228	7,43	0,7654	302,15
2435	3000	0,644	21	97,4	11998	21,41851359	6,21	0,7077	296,15
2436	3000	0,572	15	97,4	15000	17,07495027	5,06	0,6327	290,15
2437	3000	0,527	11	97,4	17001	13,69810858	4,37	0,5752	286,15
2438	3000	0,485	7	97,4	18999	10,53964712	3,78	0,5160	282,15
2439	3000	0,446	3	97,4	21001	7,913021414	3,29	0,4571	278,15
2440	3000	0,410	-1	97,4	22999	5,860963757	2,89	0,3990	274,15
2441	3000	1,013	45	94,1	0	30,43915238	9,60	0,7135	320,15
2442	3000	0,908	39	94,1	2999	28,6755086	9,15	0,7667	314,15
2443	3000	0,812	33	94,1	5997	26,55438817	8,44	0,7736	308,15
2444	3000	0,724	27	94,1	8999	23,87580591	7,33	0,7380	302,15
2445	3000	0,644	21	94,1	11998	20,51653795	6,05	0,6793	296,05
2446	3000	0,572	15	94,1	15000	16,56831011	4,91	0,6113	290,15
2447	3000	0,527	11	94,1	17001	13,870571	4,27	0,5627	286,15
2448	3000	0,485	7	94,1	18999	11,43284523	3,75	0,5134	282,15
2449	3000	0,446	3	94,1	21001	9,349888326	3,33	0,4632	278,15
2450	3000	0,410	-1	94,1	22999	7,5964879	3,01	0,4122	274,15
2451	3000	1,013	45	84,5	0	26,95717103	8,95	0,7933	320,05
2452	3000	0,908	39	84,5	2999	24,4439069	8,01	0,8012	314,05
2453	3000	0,812	33	84,5	5997	21,86862524	7,15	0,7679	308,05
2454	3000	0,724	27	84,5	8999	19,12812313	6,37	0,7028	301,95
2455	3000	0,644	21	84,5	11998	16,11425863	5,63	0,6257	295,85
2456	3000	0,572	15	84,5	15000	13,10873379	4,90	0,5500	289,85
2457	3000	0,527	11	84,5	17001	11,24234539	4,44	0,5020	285,85
2458	3000	0,485	7	84,5	18999	9,626452119	4,04	0,4585	281,85
2459	3000	0,446	3	84,5	21001	8,303275777	3,72	0,4195	277,95
2460	3000	0,410	-1	84,5	22999	7,25191034	3,48	0,3844	274,05

Number	rpm	p_amb	T_amb	Throttle	alt	power	FuelFlow	p_Plenum	T_Plenum
-	RPM	bar	C	%	ft	kW	kg/h	bar	K
2461	3000	1,013	45	72	0	22,84239939	7,55	0,8132	319,55
2462	3000	0,908	39	72	2999	20,41878932	6,68	0,7912	313,65
2463	3000	0,812	33	72	5997	17,87649688	5,99	0,7333	307,65
2464	3000	0,724	27	72	8999	15,1128934	5,42	0,6540	301,75
2465	3000	0,644	21	72	11998	12,29040095	4,91	0,5739	295,75
2466	3000	0,572	15	72	15000	9,825995579	4,49	0,5023	289,85
2467	3000	0,527	11	72	17001	8,429306187	4,25	0,4592	285,85
2468	3000	0,485	7	72	18999	7,262779087	4,06	0,4206	281,95
2469	3000	0,446	3	72	21001	6,318667534	3,91	0,3867	277,95
2470	3000	0,410	-1	72	22999	5,583626302	3,81	0,3576	274,05
2471	3000	1,013	45	56,5	0	14,73000322	6,02	0,6225	319,55
2472	3000	0,908	39	56,5	2999	12,82960742	5,30	0,5881	313,65
2473	3000	0,812	33	56,5	5997	10,97352712	4,67	0,5508	307,75
2474	3000	0,724	27	56,5	8999	9,043839772	4,10	0,5077	301,85
2475	3000	0,644	21	56,5	11998	7,089047939	3,59	0,4582	295,95
2476	3000	0,572	15	56,5	15000	5,327193034	3,20	0,4078	290,05
2477	3000	0,527	11	56,5	17001	4,403701807	3,01	0,3766	286,15
2478	3000	0,485	7	56,5	18999	3,761542234	2,91	0,3498	282,15
2479	3000	0,446	3	56,5	21001	3,388241844	2,89	0,3280	278,25
2480	3000	0,410	-1	56,5	22999	3,251066022	2,94	0,3115	274,25


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ORIGINAL TRUST
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DON'T SETTLE FOR LESS.

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THE NO-COMPROMISE WARRANTY.

Because we stand behind our engines, craft and quality standards, we offer an extended warranty program in addition to our standard warranty service.

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TURN TWO YEARS INTO FIVE.

Rotax Care adds three years of peace of mind or the time to reach a Time Between Overhaul (TBO) – whatever comes first.

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FULL TBO COVERAGE

Adds 36/42 months or the time to reach a Time Between Overhaul (TBO) – whatever comes first – to your Rotax standard warranty coverage.

TRANSFERABLE COVERAGE

You can transfer the Rotax Care along with the engine to a new owner.

When you buy Rotax Care for a specific region, we link the warranty extension to your engine's serial number.

TO ENJOY OUR COMPREHENSIVE WARRANTY PROTECTION, GENUINE PARTS MUST BE USED AND THE ENGINE MUST BE REGISTERED.

ENGINE REGISTRATION

To activate your warranty coverage, Rotax offers an easy paperless registration process at flyrotax.com. You can also contact your local Rotax authorized distributor or their independent service centers. Your engine cannot be re-registered in case of theft, which poses an additional security feature.

Note: Standard warranty will only be granted if the engineis registered by the end customer 30 days after the date of purchase at the latest.

IN A WORLD FULL OF FAKES, STAY ORIGINAL.

GENUINE PARTS

ORIGINAL QUALITY. ORIGINAL VALUE. ORIGINAL TRUST.
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Rotax Genuine Parts are manufactured to strict quality standards for an exact fit and precise operation. They ensure that your aircraft will continue to perform at maximum levels with minimum downtime and a long service life.

Rotax Genuine Parts meet Design/Production Organisation Approval (DOA/POA) and quality standards (EASA/ASTM).

All Rotax Genuine Parts come with a coverage for the first 24 consecutive months or the first 100 hours of operation, whichever occurs first.

There is no Rotax warranty on non-genuine parts.
If a non-genuine part causes an event on a Rotax engine, it may nullify any warranty.

* applies to all Rotax engine series except Rotax 582 UL
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ROTAX®

Engine serial no.

Type of aircraft

Aircraft registration no.

Rotax® authorized distributor

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