

TYPE CERTIFICATE

EASA.E.121

This certificate is issued by the European Union Aviation Safety Agency (EASA) in accordance with Regulation (EU) 2018/1139, in particular Article 77 (1) (e) thereof and Commission Regulation (EU) No. 748/2012 to

BRP-ROTAX GmbH & Co KG

ROTAXSTRASSE 1 4623 GUNSKIRCHEN AUSTRIA

EASA.21J.048

and certifies that the product type design listed below complies with the applicable Type Certification Basis and, if applicable, environmental protection requirements when operated within the conditions and limitations specified on the associated Type Certificate Data Sheet Number: EASA.E.121

Type Design:	Rotax 912 Series
Model	Initial Certification Date*
Rotax 912 A1	25 September 1989
Rotax 912 A2	25 September 1989
Rotax 912 A3	23 April 1993
Rotax 912 A4	02 August 1996
Rotax 912 F2	22 December 1994
Rotax 912 F3	22 December 1994
Rotax 912 F4	22 December 1994
Rotax 912 S2	27 November 1998
Rotax 912 S3	27 November 1998
Rotax 912 S4	27 November 1998
Rotax 912 iSc2 Sport	17 June 2014
Rotax 912 iSc3 Sport	17 June 2014
Rotax 915 iSc2 A	11 October 2019
Rotax 915 iSc2 C24	01 September 2021
Rotax 915 iSc3 A	14 December 2017
Rotax 915 iSc3 C24	01 September 2021
Rotax 916 iSC2 C24	18 December 2023
Rotax 916 iSC3 C24	18 December 2023

See Continuation Sheet(s)

For the European Union Aviation Safety Agency

Cologne, Germany, 18 December 2023

Herdrice HERESON

Section Manager - General Aviation &

VTOL Propulsion & Powerplant Systems





Rotax 916 iSc2 A 14 July 2023 Rotax 916 iSc3 A 14 July 2023 Rotax 916 iSc3 B 01 July 2020

*Note: With regard to a product for which a type certificate was issued before 28 September 2003 by an EASA Member State, the Initial Certification Date refers to the date of issuance of the initial type certificate of this product by the competent authority of that State.

- End -

Date: 18 December 2023

TCDS No.: E.121 Issue: 17



TYPE-CERTIFICATE DATA SHEET

No. E.121

for Piston Engines

Rotax 912 series

Type Certificate Holder BRP-Rotax GmbH & Co KG

> Rotaxstraße 1 A-4623 Gunskirchen Austria

For Models: Rotax 912 A1

Rotax 912 A2 Rotax 912 A3 Rotax 912 A4 Rotax 912 F2 Rotax 912 F3 Rotax 912 F4 Rotax 912 S2 Rotax 912 S3 Rotax 912 S4

Rotax 912 iSc2 Sport Rotax 912 iSc3 Sport Rotax 915 iSc2 A Rotax 915 iSc3 A Rotax 915 iSc2 C24 Rotax 915 iSc3 C24 Rotax 916 iSc2 A Rotax 916 iSc3 A Rotax 916 iSc3 B Rotax 916 iSc2 C24 Rotax 916 iSc2 C24

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I. General

1. Type/ Model

Rotax 912/Rotax 912 A1, Rotax 912 A2, Rotax 912 A3, Rotax 912 A4, Rotax 912 F2, Rotax 912 F3, Rotax 912 F4, Rotax 912 S2, Rotax 912 S3, Rotax 912 S4, Rotax 912 iSc2 Sport, Rotax 912 iSc3 Sport, Rotax 915 iSc2 A, Rotax 915 iSc3 A, Rotax 915 iSc2 C24, Rotax 915 iSc3 C24, Rotax 916 iSc2 A, Rotax 916 iSc3 A, Rotax 916 iSc3 B, Rotax 916 iSc2 C24, Rotax 916 iSc3 C24

2. Type Certificate Holder

BRP-Rotax GmbH & Co KG Rotaxstraße 1 A-4623 Gunskirchen, Austria **DOA EASA.21J.048**

3. Manufacturer

As above

4. Date of Application

Rotax 912 A1	Rotax 912 A2	Rotax 912 A3	Rotax 912 A4	Rotax 912 F2
19 October 1987	19 October 1987	22 July 1992	24 May 1995	21 September
				1993
Rotax 912 F3	Rotax 912 F4	Rotax 912 S2	Rotax 912 S3	Rotax 912 S4
21 September	21 September	20 November	20 November	20 November
1993	1993	1997	1997	1997
Rotax 912 iSc2	Rotax 912 iSc3	Rotax 915 iSc2 A	Rotax 915 iSc3 A	Rotax 916 iSc3 B
Sport	Sport			
07 April 2010	07 April 2010	08 March 2019	25 January 2017	18 February 2019
Rotax 915 iSc2	Rotax 915 iSc3	Rotax 916 iSc2 A	Rotax 916 iSc3 A	Rotax 916 iSc2
C24	C24			C24
05 November	05 November	02 March 2022	02 March 2022	05 July 2023
2019	2019			
Rotax 916 iSc3				
C24				
05 July 2023				



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5. EASA Type Certification Date

Rotax 912 A1	Rotax 912 A2	Rotax 912 A3	Rotax 912 A4	Rotax 912 F2
25 September	25 September	23 April 1993	02 August 1996	22 December
1989	1989			1994
Rotax 912 F3	Rotax 912 F4	Rotax 912 S2	Rotax 912 S3	Rotax 912 S4
22 December	22 December	27 November	27 November	27 November
1994	1994	1998	1998	1998
Rotax 912 iSc2	Rotax 912 iSc3	Rotax 915 iSc2 A	Rotax 915 iSc3 A	Rotax 916 iSc3 B
Sport	Sport			
10 August 2012	10 August 2012	11 October 2019	14 December	01 July 2020
			2017	
Rotax 915 iSc2	Rotax 915 iSc3	Rotax 916 iSc2 A	Rotax 916 iSc3 A	Rotax 916 iSc2
C24	C24			C24
01 October 2021	01 October 2021	14 July 2023	14 July 2023	18 December
				2023
Rotax 916 iSc3				
C24				
18 December				
2023				

Note: EASA type certificate for all these models (except 912 iSc2 Sport, 912 iSc3 Sport and 915 iSc2 A, 915 iSc3 A, 915 iSc2 C24, 915 iSc3 C24, 916 iSc2 A, 916 iSc3 A, 916 iSc3 B, 916 iSc2 C24 and 916 iSc3 C24) is granted in accordance with article 3 1(a)(i) of EU -Commission Regulation 748/2012 replacing the BAZ/ACG Austria certification of these products:

Rotax 912 A series: Austrian Type Certification no. TW8/89

Rotax 912 F series and S series: Austrian Type Certification no. TW9-ACG

II. Certification Basis

1. Reference Date for determining the applicable airworthiness requirements

Refer to section 4 (Date of Application) of part I. General.

2. EASA Certification Basis

2.1. Airworthiness Standards

Rotax 912 A series: JAR 22 Appendix H, Airworthiness requirements for engines of

powered sailplanes, Amdt. 1 of May 18, 1981

Rotax 912 F series and S series: FAR Part 33 Amdt. 15 plus FAA NPRM Doc. # 24922, Notice no.

92-14



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Rotax 912 iSc Sport series: CS-E, Amendment 3 (December 23, 2010)

Rotax 915 iSc A series, Rotax 915 iSc C24 series, Rotax 916 iSc A series, Rotax 916 iSc3 B and 916 iSc

C24 series: CS-E, Amendment 4 (March 12, 2015)

2.2. Special Conditions (SC)

Rotax 912 F series and S series: SC1 HIRF Requirement according RTCA DO 160 C; SC2 External

Alternator

For all other models: NONE

2.3. Equivalent Safety Findings

Rotax 912 F series and S series:

Propeller governor:

Instead of FAR 35.42 as stated in FAR 33.19(b), JAR-E180(B)(1)(ii) has been applied for the operational test of the hydraulic governor. This was fixed as equivalent safety measure.

Conformity with FAR 33.25, attachment of components has been proven.

For all other models: NONE

2.4. Deviations

Rotax 912 F series: Temporary exemption to para. 33.15. until 1.7.1995 had been granted.

For all other models: NONE

2.5. Environmental Protection

None (not required for piston engines)

III. Technical Characteristics

1. Type Design Definition

Rotax 912 A series: As defined by the type design definition no. 30.912.0022 Rotax 912 F series: As defined by the type design definition no. 30.912.0033 Rotax 912 S series: As defined by the type design definition no. 30.912.0133 Rotax 912 iSc Sport series: As defined by the type design definition no. 35.912.0533 Rotax 915 iSc A series: As defined by the type design definition no. 38.915.0533 Rotax 915 iSc C24 series: As defined by the type design definition no. 31.915.0543 Rotax 916 iSc A series: As defined by the type design definition no. 33.916.0533 Rotax 916 iSc3 B: As defined by the type design definition no. 30.916.0523 Rotax 916 iSc C24 series: As defined by the type design definition no. 34.916.0543



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2. Description

The Rotax 912 engine is a 4-stroke, 4 cylinder horizontally opposed, spark ignition engine, propeller drive via integrated reduction gear, liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication.

For Rotax 912 A Series and Rotax 912 F Series:

Bore	79,5 mm	3.13 in.
Stroke	61,0 mm	2.40 in.
Displacement	1211 cm3	73.9 cu.in.
Compression ratio	9:1	
Gear ratio (crankshaft: propeller shaft)	2,2727 : 1 or 2,4286 : 1 (optional)	

For Rotax 912 S Series and Rotax 912 iSc Sport Series:

Bore	84 mm	3.31 in.
Stroke	61 mm	2.40 in.
Displacement	1352 cm3	82.5 cu.in.
Compression ratio	10,8:1	
Gear ratio (crankshaft: propeller shaft)	2,4286 : 1	

For Rotax 915 iSc A Series, Rotax 915 iSc C24 Series, Rotax 916 iSc A series, Rotax 916 iSc3 B and Rotax 916 iSc C24 series:

Bore	84 mm	3.31 in.
Stroke	61 mm	2.40 in.
Displacement	1352 cm3	82.5 cu.in.
Compression ratio	8,2:1	
Gear ratio (crankshaft: propeller shaft)	2,5454 : 1	

Model 912 A2 / F2 / S2

Core model: 4-stroke, spark ignition, 4 cylinder horizontally opposed, one central camshaft, pushrods, overhead valves, liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication, dual breakerless capacitive discharge ignition, two constant depression carburetors, mechanical fuel pump, fixed pitch propeller configuration, drive output via reduction gear with integrated shock absorber and overload protection, electric starter, integrated AC generator, vacuum pump drive (optional), external alternator (optional).

Model A1

Same as A2, except: fixed pitch propeller configuration, pitch circle diameter (P.C.D.)

100 mm (3.937 in.)

Model A3 / F3 / S3

Same as A2 / F2 / S2, except: additional drive and adapter for hydraulic governor,

hydraulic governor and propeller shaft for constant speed

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propeller.

Model A4 / F4 / S4

Same as A3 / F3 / S3, except: fixed pitch propeller, prepared for hydraulic governor for

constant speed propeller (without drive, adapter and governor).

Model 912 iSc Sport

Core model: The engine is a 4 cylinder horizontally opposed, 4-stroke piston engine with liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication, 2 electrical fuel pumps, exhaust system and it is controlled by a dual channel Full Authority Digital Engine Control (FADEC) system for ignition and injection. The engine is equipped with a reduction gear box with integrated shock absorber (dog clutch type) and overload protection to reduce the crankshaft speed to the designed propeller shaft speed. The prop speed could be controlled by a governor mounted on the crankcase (912 iSc3 Sport), driven by the propeller shaft. The engine will be operated with automotive gasoline or AVGAS.

Model iSc2 Sport

Same as 912 iSc Sport core model except: Prop shaft with flange for fixed prop.

Model iSc3 Sport

Same as 912 iSc Sport core model except: Prop shaft with flange for constant

speed propeller and drive for hydraulic governor for constant speed propeller.



Model 915 iSc A

Core model: The engine is a 4 cylinder horizontally opposed, 4-stroke piston engine with liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication, turbocharger with intercooler, exhaust system and it is controlled by a dual channel Full Authority Digital Engine Control (FADEC) system for ignition and injection. The engine is equipped with a reduction gear box with integrated torsion shaft, dampening clutch and overload protection clutch to reduce the crankshaft speed to the designed propeller shaft speed. The engine will be operated with automotive gasoline or AVGAS.

Model iSc2 A

Same as 915 iSc A core model except: Prop shaft with flange for fixed prop.

Model iSc3 A

Same as 915 iSc A core model except: Prop shaft with flange for constant

speed propeller and drive for hydraulic governor for constant speed propeller.

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Model 915 iSc C24

Core model: The engine is a 4 cylinder horizontally opposed, 4-stroke piston engine with liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication, turbocharger with intercooler, exhaust system, controlled by a dual channel Full Authority Digital Engine Control (FADEC) system for ignition and injection and a regulator type with a 28V System Interface for power exchange to and from a 28V aircraft system. The engine is equipped with a reduction gear box with integrated torsion shaft, dampening clutch and overload protection clutch to reduce the crankshaft speed to the designed propeller shaft speed. The engine will be operated with automotive gasoline or AVGAS.

Model iSc2 C24

Same as 915 iSc C24 core model except: Prop shaft with flange for fixed prop.

Model iSc3 C24

Same as 915 iSc C24 core model except: Prop shaft with flange for constant

speed propeller and drive for hydraulic governor for constant speed propeller.



Model 916 iSc A

Core model: Same as core model 915 iSc A except of adjustable exhaust system, and changed max. cont. power rating.

Model iSc2 A

Same as 916 iSc A core model except: Prop shaft with flange for fixed prop.

Model iSc3 A

Same as 916 iSc A core model except: Prop shaft with flange for constant

speed propeller and drive for hydraulic governor for constant speed propeller.

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Model 916 iSc C24

Core model: Same as core model 915 iSc C24 except of adjustable exhaust system, and changed max. cont. power rating.

Model iSc2 C24

Same as 916 iSc C24 core model except: Prop shaft with flange for fixed prop.

Model iSc3 C24

Same as 916 iSc C24 core model except: Prop shaft with flange for constant

speed propeller and drive for hydraulic governor for constant speed propeller.

Model 916 iSc3 B

Core model: The engine is a 4 cylinder horizontally opposed, 4-stroke piston engine with liquid cooled cylinder heads, ram-air cooled cylinders, dry sump forced lubrication, turbocharger with intercooler, exhaust system and it is controlled by a dual channel Full Authority Digital Engine Control (FADEC) system for ignition and injection. The engine is equipped with a reduction gear box with integrated torsion shaft, dampening clutch and overload protection clutch to reduce the crankshaft speed to the designed propeller shaft speed. The engine will be operated with automotive gasoline or AVGAS.

Prop shaft with flange for constant speed propeller and drive for hydraulic governor for constant speed propeller.



3. Equipment

Description 912 A/F/S series: See Illustrated Parts Catalog ETK-912 (German) and

IPC-912 (English)

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Description 912 iSc Sport series: See Illustrated Parts Catalog ETK-912 i (German) and

IPC-912 i (English)

Description 915 iSc A series: See Illustrated Parts Catalog IPC-915 i A (English)

Description 915 iSc C24 series: See Illustrated Parts Catalog IPC-915 i C24 (English)

Description 916 iSc A series: See Illustrated Parts Catalog IPC-916 i A / C24 (English)

Description 916 iSc3 B: See Illustrated Parts Catalog IPC-916 iSc B (English)

Description 916 iSc C24 series: See Illustrated Parts Catalog IPC-916 i A / C24 (English)

4. Dimensions

912 A/F/S series:

Description	mm	in.
Overall length	590	23.23
Overall length with optional 0,9 kW electric starter	630	24.80
Overall length with airbox	717	28.23
Overall height	375	14.76
Overall height with airbox and engine suspension frame	421	16.57
Overall width	576	22.68

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912 iSc Sport series:

Description	mm	in.
Overall length	596	23.46
Overall length with suspension frame	596	23.46
Overall height	398	15.67
Overall height with exhaust system	541	21.30
Overall height with engine suspension frame	430	16.93
Overall width	578	22.76

915 iSc A and 915 iSc C24 series:

Description	mm	in.
Overall length	657	25.87
Overall length with suspension frame	657	25.87
Overall height	398	15.67
Overall height with exhaust system	702	27.64
Overall height with engine suspension frame	430	16.93
Overall width	578	22.76

916 iSc A and 916 iSc C24 series:

Description	mm	in.
Overall length with suspension frame (w/o intercooler, hoses and flexible exhaust tail pipe)	657	25.87
Overall height (w/o exhaust system and suspension frame)	398	15.67
Overall height with (adjustable) exhaust system and flexible exhaust tail pipe	566 – 826	22.28 – 32.52
Overall height with engine suspension frame	430	16.93
Overall width (w/o exhaust end pipe, intercooler and hoses)	578	22.76



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916 iSc3 B:

Description	mm	in.
Overall length (w/o intercooler and hoses)	657	25.87
Overall length with suspension frame	657	25.87
Overall height (w/o exhaust system and suspension frame)	398	15.67
Overall height with exhaust system	673	26.50
Overall height with engine suspension frame	430	16.93
Overall width (w/o exhaust end pipe, intercooler and hoses)	578	22.76

5. Dry Weight

912 A series and 912 F series:

Description	kg	lbs.
With ignition unit and internal generator, carburetors, overload clutch, oil tank and electric starter but without muffler and radiator	57,1	125.88
With propeller flange P.C.D. 75/80 mm/4 in., drive gear, adapter and hydraulic governor for constant speed propeller	59,8	131.80
External alternator	3,0	6.61
Center of gravity: see Installation Manual EBHB-912 (German) and IM-912 (English)	-	-

912 S series:

Description	kg	lbs.
With ignition unit and internal generator, carburetors, oil tank, overload clutch and electric starter but without muffler, airbox and radiator	58,3	128.52
With propeller flange P.C.D. 75/80 mm/4 in., drive gear, adapter and hydraulic governor for constant speed propeller	61,0	134.00
External alternator	3,0	6.61
Center of gravity: see Installation Manual EBHB-912 (German) and IM-912 (English)	-	-



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912 iSc Sport series:

Description	kg	lbs.
912 iSc2 Sport: With electric system: wiring harness ECU, fuse box and start relay. With oil tank. Without engine suspension frame, exhaust system, fuel pumps assy., cooling baffle, radiator and oil cooler, governor and governor drive.	63,6	140.21
912 iSc3 Sport: as 912 iSc2 Sport but with governor drive	64,4	141.98
External alternator	3,0	6.61
Center of gravity: see Installation Manual EBHB-912 i (German) and IM-912 i (English)	-	-

915 iSc A series:

Description	kg	lbs.
915 iSc2 A: With base engine with gearbox and turbocharger, cooling air baffle, wiring harness, sensors, intermediate flange with overboost valve, air hose and clamps, magneto valve block with hoses, ECU, fusebox, oil tank, intercooler, exhaust system Without fuel pumps assy., radiator and oil cooler, governor and governor drive.	84,6	186.51
915 iSc3 A: as 915 iSc2 A but with governor drive	85,2	187.83
Center of gravity: see Installation Manual IM-915 i A / C24 (English)	-	-

915 iSc C24 series:

Description	kg	lbs.
915 iSc2 C24: With base engine with gearbox and turbocharger, cooling air baffle, wiring harness, sensors, intermediate flange with overboost valve, air hose and clamps, magneto valve block with hoses, ECU, fusebox, 28V AC/DC converter, oil tank, intercooler, exhaust system Without fuel pumps assy., radiator and oil cooler, governor and governor drive.	85,3	188.05
915 iSc3 C24: as 915 iSc2 C24 but with governor drive	85,9	189.38
Center of gravity: see Installation Manual IM-915 i A / C24 (English)	-	-



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916 iSc A series:

Description	kg	lbs.
916 iSc2 A: With base engine with gearbox and turbocharger, cooling air baffle, wiring harness, sensors, intermediate flange with overboost valve, air hose and clamps, magneto valve block with hoses, ECU, fusebox, oil tank, intercooler, exhaust system Without fuel pumps assy., radiator and oil cooler, governor and governor drive.	85,8	189.16
916 iSc3 A: as 916 iSc2 A but with governor drive	86,4	190.48
Center of gravity: see Installation Manual IM-916 i A / C24 (English)	-	-

916 iSc3 B:

Description	kg	lbs.
With base engine with gearbox and turbocharger, cooling air baffle, wiring harness, sensors and actuators, intermediate flange with overboost valve, air hose and clamps, magneto valve block with hoses, ECU, fusebox, oil tank, intercooler, exhaust system Without fuel pumps assy., radiator and oil cooler.	85,2	187.83
Center of gravity: see Installation Manual IM-916 iSc B (English)	-	-

916 iSc C24 series:

Description	kg	lbs.
916 iSc2 C24: With base engine with gearbox and turbocharger, cooling air baffle, wiring harness, sensors, intermediate flange with overboost valve, air hose and clamps, magneto valve block with hoses, ECU, fusebox, 28V AC/DC converter, oil tank, intercooler, exhaust system Without fuel pumps assy., radiator and oil cooler, governor and governor drive.	86,5	190.70
916 iSc3 C24: as 916 iSc2 C24 but with governor drive	87,1	192.02
Center of gravity: see Installation Manual IM-916 i A / C24 (English)	-	-



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6. Ratings

912 A series and 912 F series:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude	58,0	5500
Take-off performance rpm (max. 5 min.) at sea level pressure altitude	59,6	5800

912 S series:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude	69,0	5500
Take-off performance rpm (max. 5 min.) at sea level pressure altitude	73,5	5800

912 iSc Sport series:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude	72,0	5500
Take-off performance rpm (max. 5 min.) at sea level pressure altitude	73,5	5800

915 iSc A and 915 iSc C24 series:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude up to critical altitude of 15000 ft / 4572 m	99	5500
Take-off performance rpm (max. 5 min.) at sea level pressure altitude	104	5800

See Note 7



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916 iSc A and 916 iSc C24 series:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude up to critical altitude of 15000 ft / 4572 m	101	5500
Take-off performance rpm (max. 5 min.) at sea level pressure altitude	117	5800

See Note 7

916 iSc3 B:

Description	kW	rpm
Max. continuous performance at sea level pressure altitude up to critical altitude of 23000 ft / 7010 m	100	5500
Maximum certified Take-off performance rpm (max. 5 min) at sea level pressure altitude	117	5800
Normal Take-off performance rpm (max. 3 min.) at sea pressure altitude	117	5800

See Notes 3 and 7

7. Control System

The 912 iSc Sport, 915 iSc A, 915 iSc C24, 916 iSc A, 916 iSc B and 916 iSc C24 engines are controlled by a dual channel Full Authority Digital Engine Control (FADEC) system for ignition and injection which main item is the Engine Control Unit (ECU).

Refer to the Installation / Operators Manuals for further information.

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8. Fluids (Fuel, Oil, Coolant, Additives)

912 A/F/S series: see Operators Manual HB-912 (German), OM-912 (English)

see Service Instruction SI-912-016 (German), SI-912-016 (English)

see Operators Manual HB-912 i (German), OM-912 i (English) 912 iSc Sport series:

see Service Instruction SI-912i-001 (German), SI-912i-001 (English)

915 iSc A series/ 915 iSc C24 series: see Operators Manual OM-915 i A / C24 (English)

see Service Instruction SI-915i-001 (English)

916 iSc A series/ 916 iSc C24 series: see Operators Manual OM-916 i A / C24 (English)

see Service Instruction SI-916i-001 (English)

916 iSc3 B: see Operators Manual OM-916 iSc B (English)

see Service Instruction SI-916i-001 (English)

9. Aircraft Accessory Drives

912 A series:

Model 912 A Series												
	A1 A2		۸2	A 4	Rotation	speed ratio to crankshaft		max.	max. overhang			
Accessory	A1	A2	A3	A4	A4 facing drive pad	i = 2,2727	i = 2,4286 optional	torque Nm	moment Nm			
Vacuum pump	**	**	-	**	CCW	0,585:1	0,548:1	0,1	0,4			
Governor drive	-	-	*	-	CCW	0,585:1	0,548:1	2,0	1,04			
Tachometer drive	**	**	**	**	CW	0,25:1	0,25:1	-	-			
" - "	Indic	ates "	does r	not ap	oly"							
" * "	Stan	Standard										
" ** "	Optional											
" CW "	Clocl	kwise										
" CCW "	Cour	nter-cl	ockwi	se								

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912 F series:

	Model 912 F Series											
					Rotation	speed ratio	to crankshaft	max.	max.			
Accessory	essory F2 F3		F2 F3 F4 facing drive i = 2,2727 i = 2,4286 optional		torque Nm	overhang moment Nm						
Vacuum pump		**	-	**	CCW	0,585:1	0,548:1	0,1	0,4			
Governor drive		-	*	-	CCW	0,585:1	0,548:1	2,0	1,04			
Tachometer drive	**		** ** **		CW	0,25:1	0,25:1	-	-			
" - "	In	dicate	s "doe	es not	apply"							
" * "	Standard											
" ** "	Optional											
" CW "	Clockwise											
" CCW "	Сс	ounter	-clock	wise								

912 S series:

			ſ	Model 912 S	Series		
Accessory	S2	\$3	S4	Rotation facing drive pad	speed ratio to crankshaft i = 2,4286	max. torque Nm	max. overhang moment Nm
Vacuum pump	**	-	**	CCW	0,548:1	0,9	0,4
Governor drive	-	*	-	CCW	0,548:1	1,8	1,04
Tachometer drive	**	**	**	CW	0,25:1	-	-
" - "	Indicate	es "doe	s not	apply"			
" * "	Standar	ď					
" ** "	Optional						
" CW "	Clockwise						
" CCW "	Counte	r-clock	wise				

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912 iSc Sport series:

	Model 912 iSc Sport Series											
Accessory		iSc2 Sport	iSc3 Sport	Rotation facing drive pad	speed ratio to crankshaft i = 2,4286	max. torque Nm	max. overhang moment Nm					
Vacuum pump drive		**	-	CCW	0,548:1	0,9	0,4					
Governor di	Governor drive		*	CCW	0,548:1	1,8	1,04					
" - "	India	cates "do	oes not a	apply"								
" * "	Stan	dard										
" ** "	Opti	onal										
" CW "	Clockwise											
" CCW "	Cour	nter-clo	ckwise									

915 iSc A and 915 iSc C24 series:

	Model 915 iSc A and 915 iSc C24 Series											
Accessory		iSc2 A / iSc2 C24	iSc3 A / iSc3 C24	Rotation facing drive pad	speed ratio to crankshaft i = 2,5454	max. torque Nm	max. overhang moment Nm					
Vacuum pui drive	mp	**	-	CCW	0,518:1	0,9	0,4					
Governor di	Governor drive		*	CCW	0,518:1	1,8	1,04					
" - "	Indic	cates "do	oes not a	apply"								
" * "	Stan	dard										
" ** "	Optional											
" CW "	Cloc	Clockwise										
" CCW "	Cour	nter-clo	ckwise									

916 iSc3 B:

	Model 916 iSc3 B											
			Rotation	speed ratio to	max.	max.						
Accessory		916 iSc3 B	facing drive	crankshaft	torque	overhang						
			pad	i = 2,5454	Nm	moment Nm						
Governor di	Governor drive *		CCW	0,518:1	1,8	1,04						
" - "	Indic	ates "does not	apply"									
" * "	Stan	dard										
" CW "	Cloc	kwise										
" CCW "	Cour	nter-clockwise										



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916 iSc A and 916 iSc C24 series:

	Model 916 iSc A and 916 iSc C24 Series										
Accessory		iSc2 A / iSc2 C24	iSc3 A / iSc3 C24	Rotation facing drive pad	speed ratio to crankshaft i = 2,5454	max. torque Nm	max. overhang moment Nm				
Vacuum pur drive	mp	-	-	CCW	0,518:1	0,9	0,4				
Governor di	Governor drive		*	CCW	0,518:1	1,8	1,04				
" - "	Indic	ates "do	oes not a	apply"							
" * "	Stan	dard									
" ** "	** " Optional										
" CW "	Cloc	kwise									
" CCW "	Cour	nter-clo	ckwise								

10. Maximum Permissible Air Bleed Extraction

Not applicable

IV. Operating Limitations

1. Temperature Limits

912 A series and 912 F series:

Temperature limits (max permissible)	°C	°F
Cylinder head temperature in use of conventional coolant	150	302
Coolant exit temperature in use of conventional coolant (according installation manual EBHB-912 (German), IM-912 (English) and operators manual HB-912 (German), OM-912 (English))	120	248
Cylinder head temperature in use of waterless coolant	150	302
Oil temperature at inlet	140	284

912 A series and 912 F series (engine type designation extended with suffix "-01"):

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual EBHB-912 (German), IM-912 (English) and operators manual HB-912 (German), OM-912 (English))	120	248
Oil temperature at inlet	140	284



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912 S series:

Temperature limits (max permissible)	°C	°F
Cylinder head temperature in use of conventional coolant	135	275
Coolant exit temperature in use of conventional coolant (according installation manual EBHB-912 (German), IM-912 (English) and operators manual HB-912 (German), OM-912 (English))	120	248
Cylinder head temperature in use of waterless coolant	135	275
Oil temperature at inlet	130	266

912 S series (engine type designation extended with suffix "-01"):

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual EBHB-912 (German), IM-912 (English) and operators manual HB-912 (German), OM-912 (English))	120	248
Oil temperature at inlet	130	266

912 iSc Sport series:

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual EBHB-912 i (German), IM-912 i (English) and operators manual HB-912 i (German), OM-912 i (English))	120	248
Oil temperature at inlet	130	266

915 iSc A and 915 iSc C24 series:

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual IM-915 i A / C24 (English) and operators manual OM-915 i A / C24 (English)	120	248
Oil temperature	130	266



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916 iSc A and 916 iSc C24 series:

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual IM-916 i A / C24 (English) and operators manual OM-916 i A / C24 (English)	120	248
Oil temperature	120	248

916 iSc3 B:

Temperature limits (max permissible)	°C	°F
Coolant temperature (according installation manual IM-916 iSc B (English) and operators manual OM-916 iSc B (English)	120	248
Oil temperature	130	266

2. Speed Limits

Take-off Speed, max. 5 min.: see "6. Ratings" see "6. Ratings" Maximum Continuous Speed:

3. Pressure Limits

3.1 Fuel Pressure

912 A/F/S series:

0,15 - 0,5 bar / 2.18 - 7.25 psi

912 iSc Sport series:

2,8 - 3,2 bar / 40.61 - 46.41 psi

915 iSc A series, 915 iSc C24 series, 916 iSc A series, 916 iSc3 B and 916 iSc C24:

2,9 - 3,2 bar / 42.00 - 46.41 psi



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3.2 Oil Pressure

912 A/F/S series, 912 iSc Sport series, 915 iSc A series, 915 iSc C24 series, 916 iSc A series, 916 iSc3 B, 916 iSc C24 series:

Oil pressure	bar	psi
Normal operating range above 3500 rpm	2,0 ÷ 5,0	29 ÷ 72.5
Minimum below 3500 rpm	0,8	11.6
At cold start and warming up period (maximum)	7,0	101.5

4. Oil capacity, consumption limit

912 A/F/S series, 912 iSc Sport series, 915 iSc A series, 915 iSc C24 series, 916 iSc A series, 916 iSc C24 series:

Engine oil	Lit	liq pt	US gal.
Oil capacity (maximum-mark tank)	3,0	6.34	0.79
Oil capacity (minimum-mark tank)	2,5	5.28	0.66
Oil consumption per hour (maximum)	0,06	0.127	0.016

916 iSc3 B:

Engine oil	Lit	liq pt	US gal.
Oil capacity (maximum-mark tank)	4,3	9.09	1.14
Oil capacity (minimum-mark tank)	2,5	5.28	0.66
Oil consumption per hour (maximum)	0,06	0.127	0.016

5. Time Limited Dispatch (TLD) for injected engine

The injected engines are not approved for Time Limited Dispatch. All engine systems and equipment must be functional prior to aircraft take-off. Any detected engine system or equipment failure must be corrected before next flight. For special instructions, see applicable Operation & Maintenance Manual.

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V. Operating and Service Instructions

912 A/F/S series:

Manuals	German	English
Operators Manual	HB-912	OM-912
Installation Manual	EBHB-912	IM-912

Instructions for Continued Airworthiness (ICA)	German	English
Maintenance Manual Line	WHBL-912	MML-912
Maintenance Manual Heavy	WHBH-912	MMH-912
Overhaul Manual	GHB-912	OHM-912
Overhaul Manual, Appendix	GHBA-912	OHMA-912
Illustrated Parts Catalog	ETK-912	IPC-912
Service Bulletins, Service Instructions and Service Letters	as issued	as issued

912 iSc Sport series:

Manuals	German	English
Operators Manual	HB-912 i	OM-912 i
Installation Manual	EBHB-912 i	IM-912 i

Instructions for Continued Airworthiness (ICA)	German	English
Maintenance Manual Line	WHBL-912 i	MML-912 i
Maintenance Manual Heavy	WHBH-912 i	MMH-912 i
Overhaul Manual	GHB-912 i	OHM-912 i
Overhaul Manual, Appendix	GHBA-912 i	OHMA-912 i
Illustrated Parts Catalog	ETK-912 i	IPC-912 i
Service Bulletins, Service Instructions and Service Letters	as issued	as issued

915 iSc A and 915 iSc C24 series:

Manuals	English	
Operators Manual OM-915 i A / C24		
Installation Manual	IM-915 i A / C24	



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Instructions for Continued Airworthiness (ICA)	English	
Maintenance Manual Line	MML-915 i A / C24	
Maintenance Manual Heavy	MMH-915 i A / C24	
Overhaul Manual	OHM-915 i A / C24	
Overhaul Manual, Appendix	OHMA-915 i A / C24	
Illustrated Parts Catalog	g IPC-915 i A	
Illustrated Parts Catalog	IPC-915 i C24	
Service Bulletins, Service Instructions and Service Letters	as issued	

916 iSc A and 916 iSc C24 series:

Manuals	English	
Operators Manual	OM-916 i A / C24	
Installation Manual	IM-916 i A / C24	

Instructions for Continued Airworthiness (ICA)	English	
Maintenance Manual Line MML-916 i A /		
Maintenance Manual Heavy	MMH-916 i A / C24	
Overhaul Manual	OHM-916 i A / C24	
Overhaul Manual, Appendix	OHMA-916 i A / C24	
Illustrated Parts Catalog	IPC-916 i A / C24	
Service Bulletins, Service Instructions and Service Letters	as issued	

916 iSc3 B:

Manuals	English	
Operators Manual	OM-916 iSc B	
Installation Manual	IM-916 iSc B	

Instructions for Continued Airworthiness (ICA)	English	
Maintenance Manual Line	MML-916 iSc B	
Maintenance Manual Heavy	MMH-916 iSc B	
Overhaul Manual	OHM-916 iSc B	
Overhaul Manual, Appendix OHMA-916 iSc B		
Illustrated Parts Catalog	IPC-916 iSc B	
Service Bulletins, Service Instructions and Service Letters	as issued	



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VI. Notes

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1. Generator / Alternator parallel operation (912 A/F/S series)

For the certification of the optional external alternator the aerospace standard AS 8020 has been determined as applicable requirement.

However compliance to the applicable parts for parallel operation of the internal generator (as integrated part of the engine) and the optional external alternator has not been demonstrated.

2. Vacuum pump (912 A/F/S series)

912 A series and 912 F series: Compliance has only been shown to the attachment requirements

specified in FAR 33.25.

912 S series: Conformity with FAR 33.25 attachment of component has been proven.

3. TBO

The recommended Time Between Overhaul (TBO) is published in the corresponding Maintenance Manual Line MML (refer to chapter V. "Operating and Service Instructions"). TBO extensions will be published by corresponding Service Bulletins.

For the Rotax 916 iSc B series, the recommended TBO published in the corresponding MML is based on Normal Take-off rating. Usage of the Maximum certified Take off rating requires adaptation of the TBO in coordination with the Type Certificate Holder.

4. 912 iSc Sport Equipment Qualification acc. RTCA/DO-160

Equipment is qualified according to RTCA/DO-160G. Deviations to RTCA/DO-160G are documented in chapter 24-00-00 of applicable Installation Manual EBHB-912 i (German), IM-912 i (English).

5. 912 iSc Sport editorial model designation change

Engine models Rotax 912 iSc2 Sport and Rotax 912 iSc3 Sport have been initially certified under the model designations Rotax 912 iSc2 and Rotax 912 iSc3.

6. 912 A/F/S engine type designation extended with suffix "-01"

New cylinder heads have been introduced for the Rotax 912 A/F/S engine series in order to standardize the cylinder head raw part with the Rotax 912 iSc Sport engine series. As a result the measurement position of the temperature sensor on the cylinder head has changed as well as the measurement medium (former aluminium, now coolant).



As a consequence for all Rotax 912 A/F/S engines which type designations are extended with suffix "-01" the engine temperature measurement methods have been amended from CHT (cylinder head temperature) and CT (coolant temperature) to only CT (coolant temperature). Therefore only the coolant temperature limit applies.

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Exemplification for identification: "Rotax 912 S3-01"

For further details refer to Service Bulletins SB-912-066 and SB-912-068 (respectively latest revision).

7. Ratings 915 iSc A series, 915 iSc C24 series, 916 iSc A series, 916 iSc3 B and 916 iSc C24 series

The power ratings for Take-off Power and Maximum Continuous Power have been determined without accessories (such as governor, etc.).

8. 915 iSc A series, 915 iSc C24 series, 916 iSc A series, 916 iSc3 B and 916 iSc C24 series Equipment Qualification acc. RTCA/DO-160

Equipment is qualified according to RTCA/DO-160G Change 1. Deviations to RTCA/DO-160G Change 1 are documented in chapter 00-00-00 of applicable Installation Manual IM-915 i A / C24, IM-916 i A / C24, IM-916 iSc B.

9. List of approved Engine Control Unit (ECU) software and hardware configurations for 912 iSc Sport series, 915 iSc A series, 915 iSc C24, 916 iSc A series, 916 iSc3 B and 916 iSc C24 series

Approved Engine Control Unit software and related engine hardware configurations are documented in SI-912 i-018 / SI-915 i-004 / SI-916i-004.

10. Airworthiness Limitations

The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable "Maintenance Manual Line" document (MML), chapter 04-00-00 "Airworthiness Limitations".



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SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

ACG	Austro Control GmbH
AS 8020	Aerospace Standard: General minimum performance standards for generators/starter-generators and associated voltage regulators for use in direct current (DC) electric systems for civil aircraft
AVGAS	Aviation Gasoline
CHT	Cylinder Head Temperature
СТ	Coolant Temperature
CW	clockwise
CCW	counter-clockwise
CS-E	Certification Specifications Engines
DO-160	Environmental Conditions and Test Procedures for Airborne Equipment
EASA	European Union Aviation Safety Agency
ECU	Engine Control Unit
FAA	Federal Aviation Administration
FADEC	Full Authority Digital Engine Control
FAR	Federal Aviation Regulations
HIRF	High Intensity Radiated Fields
ICA	Instructions for Continued Airworthiness
IM	Installation Manual
IPC	Illustrated Parts Catalog
JAR	Joint Aviation Requirements
JAR-E	Joint Aviation Requirements Engines
ММН	Maintenance Manual Heavy
MML	Maintenance Manual Line
ОМ	Operators Manual
ОНМ	Overhaul Manual
ОНМА	Overhaul Manual, Appendix
rpm	revolutions per minute
RTCA	Radio Technical Commission for Aeronautics
SB	Service Bulletin
SI	Service Instruction
ТВО	Time between Overhaul
TCDS	Type Certificate Data Sheet



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II. Type Certificate Holder Record

Before June 15, 2016 BRP-Powertrain GmbH & Co KG

Rotaxstraße 1

A-4623 Gunskirchen, Austria

DOA EASA.21J.048

Before March 15, 2014 BRP-Powertrain GmbH & Co KG

Welser Straße 32

A-4623 Gunskirchen, Austria

DOA EASA.21J.048

Before February 3, 2009 BRP-Rotax GmbH & Co KG

Welser Straße 32

A-4623 Gunskirchen, Austria

DOA EASA.21J.048

Before June 16, 2004 Bombardier-Rotax GmbH & Co KG

Welser Straße 32

A-4623 Gunskirchen, Austria

Before December 29, 2001 Bombardier-Rotax Gesellschaft mbH

Welser Straße 32

A-4623 Gunskirchen, Austria

III. Change Record

Issue	Date	Changes	TC issue
Issue 01	02 April 2007	Initial issue	Initial Issue,
			02 April 2007
Issue 02	01 April 2008	Miscellaneous format corrections,	Initial Issue,
		correction "FAR Part 33 Amdt." to "FAR Part 33	02 April 2007
		Amdt. 15", change of illustrated parts catalog no.,	
		installation manual no., maintenance manual no.,	
		overhaul manual no. and operators manual no.	
Issue 03	26 February 2010	Change of company name from BRP-Rotax GmbH	Issue 1,
		& Co.KG to BRP-Powertrain GmbH & Co KG,	26 February 2010
		detailing of the history of type certificate holder,	
		change of SB no. (recommended TBO) from	
		SB-912-041 to SB-912-057.	
Issue 04	10 August 2012	Addition of the models Rotax 912 iSc2 and Rotax	Issue 2,
		912 iSc3, deletion of CRI T-2 and CRI T-1 in the	10 August 2012
		special conditions, deletion of chapter 3	
		"Deviations", differentiation of fuel pressure limits	
		for 912 A/F/S series (BING and CORONA).	
Issue 05	not issued	not issued	n.a.
Issue 06	17 June 2014	Change of the street name of type certificate	TE.TC.00090-002,
		holder from Welser Straße 32 to Rotaxstraße 1,	17 June 2014
		change of the models Rotax 912 iSc2 and Rotax	
		912 iSc3 to Rotax 912 iSc2 Sport and Rotax	
		912 iSc3 Sport, correction of the compression	
		ratio for 912 S series from 11:1 to 10,8:1, addition	



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Issue	Date	Changes	TC issue
		of the chapter "Dry Weight"	
Issue 07	14 April 2015	TCDS with new layout: TE.CERT.00052-001; Major Change: CHT/CT Measurement Method EASA Proj. No. 0010035055;	14 April 2015
Issue 08	05 September 2016	Name change to BRP-Rotax GmbH & Co KG as of June 15, 2016	05 September 2016
Issue 09	14 December 2017	Addition of the model Rotax 915 iSc3 A and editorial changes	14 December 2017
Issue 10	4 January 2018	Addition of the model Rotax 915 iSc3 B and editorial changes Chapter 5.: "Exhaust system" included in dry weight of 915 iSc3 A	04 January 2018
Issue 11	11 October 2019	Addition of the model Rotax 915 iSc2 A and editorial changes	11 October 2019
Issue 12	01 July 2020	Addition of the model Rotax 916 iSc3 B and editorial changes	01 July 2020
Issue 13	15 September 2020	Editorial changes, including Aircraft Accessory Drive for Models 915 iSc3 B, 916 iSc3 B	
Issue 14	01 September 2021	 Addition of the models Rotax 915 iSc2 C24 and Rotax 915 iSc3 C24 EASA Major Change Approval 10077125 of fuel pressure limit for 915 and 916 engine series from 3,1 bar to 3,2 bar. Editorial change: Alignment of 912 A/F/S fuel pressure representation with injected engines. 15 to 0,4 bar limit for the "BING" pump does not exist any longer. In 2011 a new fuel pump has been introduced (ref.: minor change ECR2008905). 	01 September 2021
Issue 15	04 October 2021	Deletion of the model Rotax 915 iSc3 B	04 October 2021
Issue 16	14 July 2023	Addition of models Rotax 916 iSc2 A and Rotax 916 iSc3 A	14 July 2023
Issue 17	18 December 2023	Addition of models Rotax 916 iSc2 C24 and Rotax 916 iSc3 C24	18 December 2023

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