



SERVICE INSTRUCTION

Introduction of an optional governor flange bushing assy. for ROTAX® 912 i Series

ATA System: 61-20-00 Hydraulic governor

1) Planning information

To obtain satisfactory results, procedures specified in this publication must be accomplished with accepted methods in accordance with prevailing legal regulations.

BRP-Rotax GmbH & Co KG cannot accept any responsibility for the quality of work performed in accomplishing the requirements of this publication.

1.1) Applicability

all versions of ROTAX® engines types as an optional extra part, if the relevant governor actuation cable is used:

- 912 iS Sport
- 912 iSc Sport

NOTICE

The flange bushing is not a part of the Engine Type Design and is NOT certified nor ASTM compliant. The certification of the flange bushing is the responsibility of the aircraft manufacturer and must be carried out jointly with the aircraft certification.

1.2) Concurrent ASB/SB/SI and SL

None.

1.3) Reason

In the course of continuous development and standardization, a new governor flange bushing assy. (part no. 481485) has been introduced as an optional extra part.

This optional governor flange bushing assy. allows the convenient connection of an appropriate governor actuation cable to the intake manifold.

1.4) Subject

Introduction of an optional governor flange bushing assy. for ROTAX® 912 i Series

1.5) Compliance

None - for information only

WARNING

Non-compliance with these instructions could result in engine damages, personal injuries or death.

1.6) Approval

None.

1.7) Labor time

Estimated labor hours:

Engine installed in the aircraft - - - labor time will depend on airframe installation and therefore no estimate is available from the engine manufacturer.

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1.8) Mass data

change of weight - - - none.
moment of inertia - - - unaffected.

1.9) Electrical load data

No change

1.10) Software modifications

No change

1.11) References

In addition to this technical information refer to current issue of

- Illustrated Parts Catalog (IPC)
- Installation Manual (IM)
- Maintenance Manual (MM)

NOTE: The status of the Manuals can be determined by checking the table of amendments. The 1st column of this table shows the revision status. Compare this number to that listed on the ROTAX website: www.FLYROTAX.com. Updates and current revisions can be downloaded for free.

1.12) Other Publications affected

None.

1.13) Interchangeability of parts

- All parts are interchangeable

2) Material Information

2.1) Material- cost and availability

Price and availability will be provided on request by ROTAX® Authorized Distributors or their independent Service Centers.

2.2) Company support information

- None.

2.3) Material requirement per engine

parts requirement:

New p/n	Qty/ engine	Description	Application
481485	1	Governor cable set	
consists of:			
240153	1	Allen screw M5x10	Intake manifold / governor cable
927573	1	Washer 5.3	Intake manifold / governor cable
947550	2	Flange bushing	Intake manifold / governor cable

2.4) Special tooling/lubricant-/adhesives-/sealing compound/price and availability

None.

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3) Accomplishment/Instructions

Accomplishment NOTE: Before maintenance, review the entire documentation to make sure you have a complete understanding of the procedure and requirements.
 All measures must be implemented and confirmed by at least one of the following persons or organizations:

- ROTAX® - Authorized Distributors or their independent Service Centers
- Persons with approved qualifications for the corresponding engine types. Only authorized persons (iRMT, Level Heavy Maintenance) are entitled to carry out this work.

NOTE: All work has to be performed in accordance with the relevant Maintenance Manual.

Safety notice

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.

ENVIRONMENTAL NOTE
 Environmental notes give you tips on environmental protection.

3.1) Installation-related information

For information on intake manifold 1/3 (cylinder side), governor pivot point and governor actuation see relevant Installation Manual chapter 10-10-00 and 61-00-00.

NOTICE Observe the governor and governor cable manufacturer's installation instructions and specifications.

3.2) Maintenance (Line) - related information

Points of inspection	Interval Operating hours		Chapter Reference
	100 h	200 h	
Check for chafing or wear on the governor arm, governor cable, bushing halves and intake manifold connection point		X	See relevant Maintenance Manual (Line) for the respective engine type and its periodical maintenance information. NOTE: Observe the governor and governor cable manufacturer's installation instructions and specifications.

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3.3) Maintenance (Heavy) - related information

- Place the governor flange bushing halves onto the governor actuator cable (see fig. 3), seating the inner bushing lip into the machined slot on the governor cable ferrule.
- Place the governor actuator cable (pos. 4, fig. 1) with bushing halves (pos. 1, fig. 1) in place through the cast engine lifting bore on intake manifold 1/3 (see fig. 1 and 2) and attach to governor arm.
- The bushing is designed to be held in place with an Allen screw M5x10 (secured with LOCTITE 243) part no. 240153 (pos. 2, fig. 1) and the washer 5.3 part no. 927573 (pos. 3, fig. 1).

3.4) Test run

Conduct test run including LANE check, leakage test and proper governor actuation. See chapter 12-20-00 of the latest Maintenance Manual Line for the respective engine type.

3.5) Summary

These instructions (section 3) have to be followed in accordance with the deadlines specified in section 1.5.

The execution of the mandatory Service Instruction must be confirmed in the logbook.

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

Translation into other languages might be performed in the course of language localization but does not lie within ROTAX® scope of responsibility.

In any case the original text in English language and the metric units are authoritative.

3.6) Inquiries

Inquiries regarding this Service Instruction should be sent to the ROTAX® Authorized Distributor of your area.

A list of all ROTAX® Authorized Distributors or their independent Service Centers is provided on www.FLYROTAX.com.

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4) Appendix

The following illustrations should convey additional information:

- 1) Governor flange bushing halves
- 2) Allen screw M5x10
- 3) Washer 5.3
- 4) Governor actuator cable

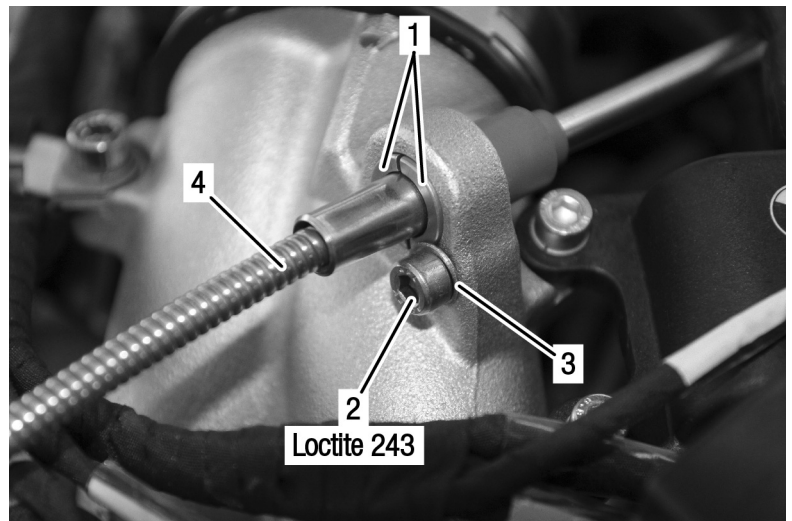


Fig. 1

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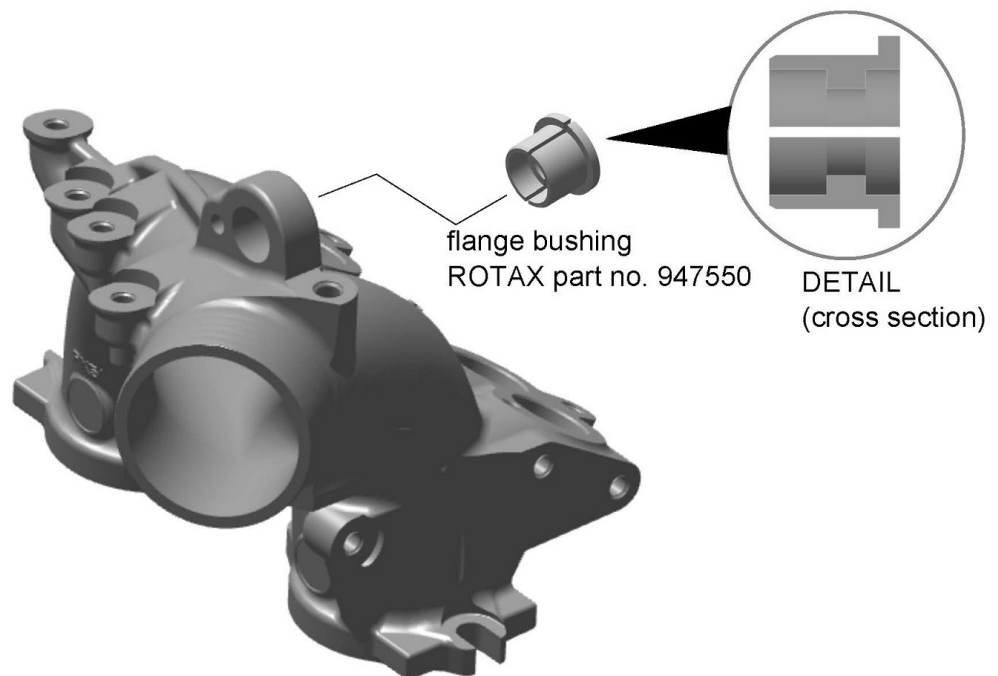


Fig. 2

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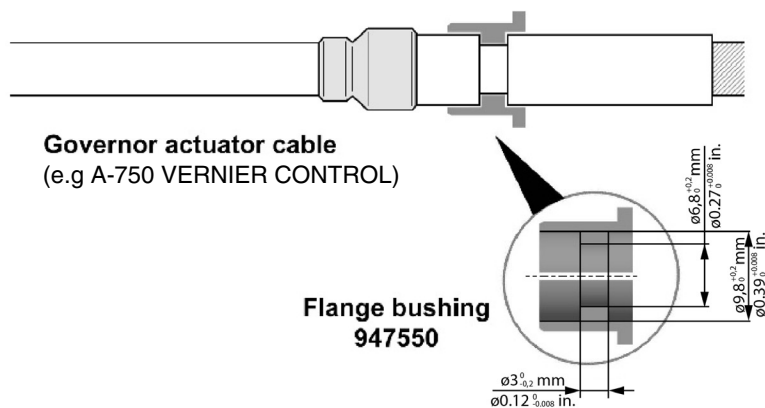


Fig. 3

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NOTE: The illustrations in this document show the typical construction. They may not represent full detail or the exact shape of the parts which have the same or similar function.

Exploded views are **no technical drawings** and are for reference only. For specific detail, refer to the current documents of the respective engine type.

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