

## SERVICE INSTRUCTION

# Introduction of wiring harness options with different lengths for ROTAX® Engine Type 912 i (Series)

ATA System: 76-50-00 Wiring Harness

### 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 wiring harness of type:

Part number	Description	Serial number
665580	Wiring harness - Standard packaged (contains 665578 + packaging)	all
665582	Wiring harness - Short packaged (contains 665573 + packaging)	all
665584	Wiring harness - Special packaged (contains 665574 + packaging)	all

In case of doubt which wiring harness is in use in your relevant aircraft type, contact your aircraft manufacturer.

#### 1.2) Concurrent ASB/SB/SI and SL

None.

#### 1.3) Reason

In the course of continuous development, optional wiring harness lengths have been introduced. These wiring harness options allow more precise and convenient location of the ECU/HIC connectors.

#### 1.4) Subject

Introduction of wiring harness options with different lengths for ROTAX® Engine Type 912 i (Series).

#### 1.5) Compliance

NONE - For Information Only.

#### 1.6) Approval

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

#### 1.7) Labor time and credit

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 Line (MML)
- Maintenance Manual Heavy (MMH)

NOTE: The status of the Manuals can be determined by checking the table of amendments. The 1<sup>st</sup> column of this table shows the revision status. Compare this number to the one listed on the ROTAX website: [www.flyrotax.com](http://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.

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## 2) Material Information

### 2.1) Material

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 and credit per engine

Parts requirement:

Fig.no.	part no.	Qty/ engine	Description	Application
1	New - 665578 Still valid - 665571	1	Wiring harness - Standard	Engine / ECU
1	665573	(1)	(Optional) Wiring harness - Short	Engine / ECU
1	665574	(1)	(Optional) Wiring harness - Special	Engine / ECU
See <a href="#">Fig. 1</a> for harness length details.				

NOTE: Wiring harness length can be chosen at time of order for delivery with a new engine or by purchasing as an individual spare part.

### 2.4) Material requirement and credit per spare part

None.

### 2.5) Rework of parts

None.

### 2.6) Special tooling/lubricants- /adhesives- /sealing compounds

None.

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## 3) Accomplishment/Instructions

- ROTAX® reserves the right to make any amendments to existing documents, which might become necessary due to this standardization, at the time of next revision or issue.

NOTE: Before maintenance, review the entire documentation to make sure you have a complete understanding of the procedure and requirements.

### Accomplishment

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.

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

#### 3.1) Spare Parts - related information

See latest Illustrated Parts Catalog of engine type 912 i Series, Chapter 76-50-00. Make sure to order the proper wiring harness according to your aircraft configuration.

#### 3.2) Installation - related information

See latest Installation Manual of engine type 912 i Series, Chapter 76-50-00.

#### 3.3) Maintenance (Line) - related information

See relevant Maintenance Manual (Line) for the respective engine type and its periodical maintenance information.

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## 3.4) Maintenance (Heavy) - related information

See relevant Maintenance Manual (Heavy) for the respective engine type and its information on assembly, disassembly, maintenance and repair.

NOTE: As the wiring harness options are interchangeable it is also allowed to change e.g. from a standard wiring harness engine state to a short one.

See Chapter 76-50-00 "Wiring harness".

- Restore aircraft to original operating configuration
- Connect negative terminal of aircraft battery

## 3.5) Test run

Conduct test run. See Chapter 12-20-00 of the latest Maintenance Manual Line for the respective engine type.

## 3.6) Summary

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

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

! 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.

## 3.7) 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](http://www.flyrotax.com).

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## 4) Appendix

The following drawings should convey additional information:

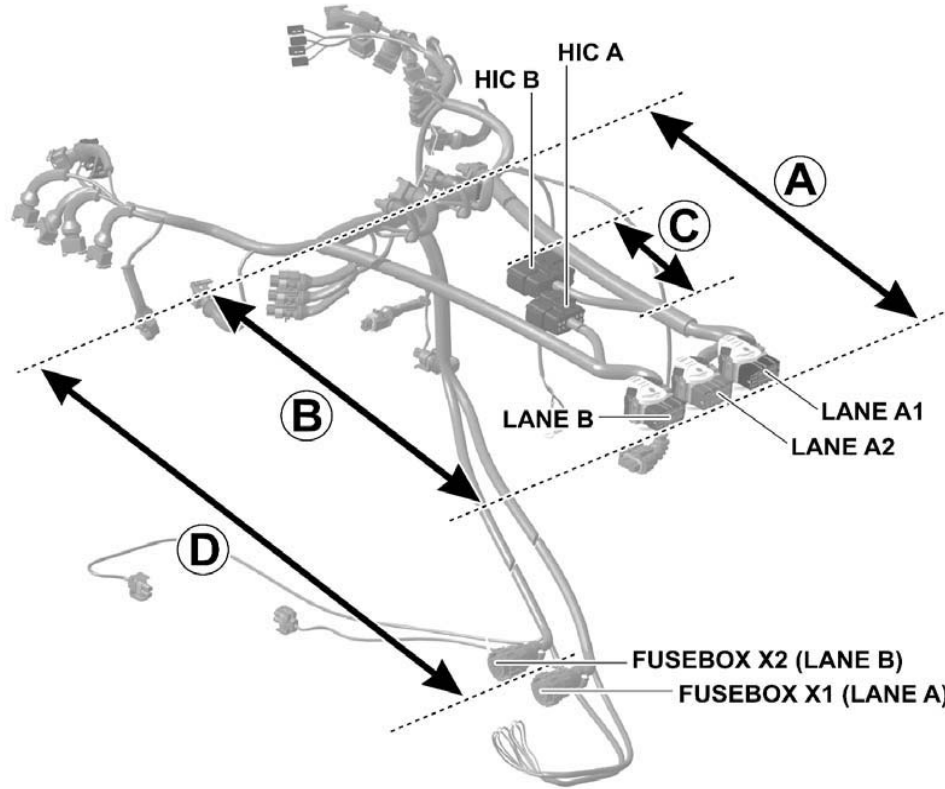


Fig. 1  
Wiring harness

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PART NO.	DESCRIPTION	LENGTH "A" ECU LANE A1 & A2	LENGTH "B" ECU LANE B	LENGTH "C" HIC A & B	LENGTH "D" FUSEBOX X1 & X2
New - 665578 Still valid - 665571	Wiring harness - Standard	1280 mm (50.4 in.)	1280 mm (50.4 in.)	400 mm (15.7 in.)	580 mm (22.8 in.)
665573	(Optional) Wiring harness -Short	600 mm (23.6 in.)	650 mm (25.6 in.)	400 mm (15.7 in.)	580 mm (22.8 in.)
665574	(Optional) Wiring harness - Special	1150 mm (45.3 in.)	1200 mm (47.2 in.)	400 mm (15.7 in.)	580 mm (22.8 in.)

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 **not technical drawings** and are for reference only. For specific detail, refer to the current documents of the respective engine type.

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