



Scoda Aeronáutica Ltda
Estrada Municipal IPN 020 km 0,1
Ipeúna – SP, Brazil.
PHONE: (19) 3576-1292
ZIP CODE: 13537-000
www.scodaeronautica.com.br

SERVICE BULLETIN

SB_SPLS_014
Revision 01

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Released Date: **February 12th, 2020**
Effective Date: **July 09th, 2020**

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SB_SPLS_014

UMA FUEL PRESSURE SENSOR INSTALLATION

Application of Notes, Cautions and Warnings

NOTES, CAUTIONS and **WARNINGS** are used in this document to emphasize instructions and information considered to be unusual or critical. A **NOTE, CAUTIONS** and **WARNINGS** may appear in the text either before or after the instruction(s) to which it applies, depending on the relative significance of the information. The conditions that warrant the use of **NOTES, CAUTIONS** and **WARNINGS** are defined below:

WARNING

IDENTIFIES AN INSTRUCTION, WHICH IF NOT FOLLOWED MAY CAUSE SERIOUS INJURY OR EVEN DEATH

CAUTION

Denotes an instruction which if not followed, may severely damage the aircraft or could lead to suspension of warranty

NOTE

Information useful for better handling



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1. Planning Information

NOTE

SCODA AERONAUTICA cannot accept any responsibility for the quality of work performed. Please refer to the last revision of the Advisory Circular 43.13 – 1B Acceptable Methods, Techniques, and Practices Aircraft Inspection and Repair.

1.1. Affected Aircraft

Type:	Super Petrel
Model:	LS
Serial Number:	All aircraft serial number up to S0366 inclusive, equipped with <u>Rotax 912iS Sport Engine and Garmin G3X System.</u>
Applicable Countries:	All

1.2. Reason

Optimization of fuel pressure indication. An alternative fuel pressure sensor is now available for aircraft equipped with Rotax 912iS Engine and Garmin G3X System.

1.3. Subject

UMA fuel pressure sensor installation.

1.4. Compliance

NON MANDATORY

1.5. Type of Maintenance

Line Maintenance

1.6. Personnel Qualifications

LSA Repairman Maintenance or A&P



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1.7. Release to Service

Conduct of this SB must be logged in the aircraft logbook with date and signature of the responsible person as applicable.

1.8. Weight and Balance

Not Affected

1.9. References

N/A

1.10. Superseded Documents

N/A

1.11. Contact Details

For further information on performing this SB, contact us to the following email address:

engineering@scodaero.com.br

1.12. Disclaimer

This Service Bulletin has been generated with utmost care. Nevertheless, errors and misunderstandings can never be fully excluded. In case of any doubts, the applicant is requested to contact Scoda Aeronáutica Ltda immediately to clarify the issue.



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2. Resources

2.1. Parts

Figure	Description	Manufacturer	Part Number	Qty
1	Fitting 1/8 NPT x 1/4	N/A	N/A	1
2	Fitting 3/8 x 1/8 NPT Hole 7mm	N/A	N/A	1
3	UMA Differential Pressure Sender 70 psi (912 iS)	UMA	N1EU70D	1
4	Hose Nipple	ROTAX	840672	1
5	Sealing Ring	ROTAX	230415	1
6	SAE 30R7 6.4 mm Hose (1/4")	N/A	N/A	0.5 m
7	Hose 3/8" 300 psi	EATON	2556-6	0.5 m
8	Stainless Steel Hose Clamp 13.8mm	N/A	N/A	2
9	Stainless Steel Hose Clamp 16.8mm	N/A	N/A	2

2.2. Tools

Description	Qty
Ear Clamp Plier	1
Combination Wrench 8mm	1
Combination Wrench 9mm	1
Combination Wrench 7/16 inches	1
Phillips Screwdriver	1
Pin Extractor	1

2.3. Manpower

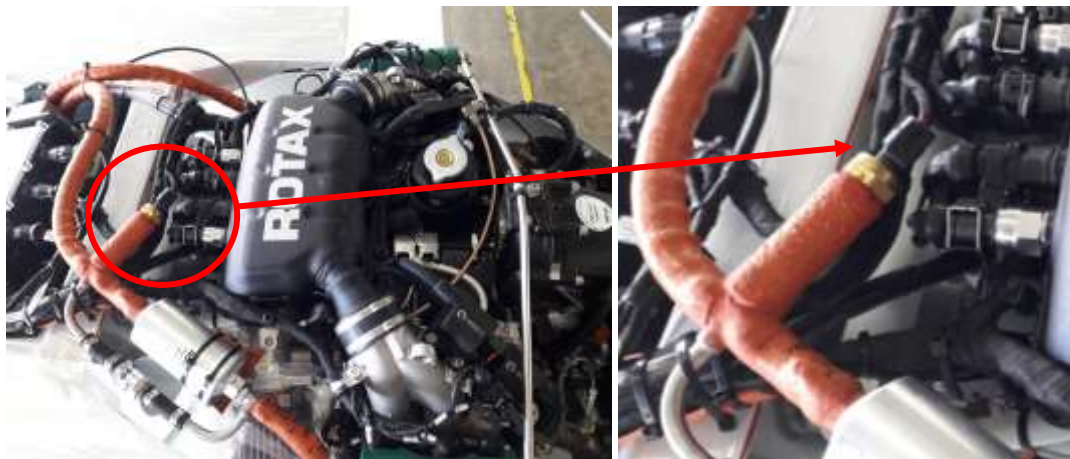
This procedure takes about 2 hours to be completed including engine running test.

2.4. Cost

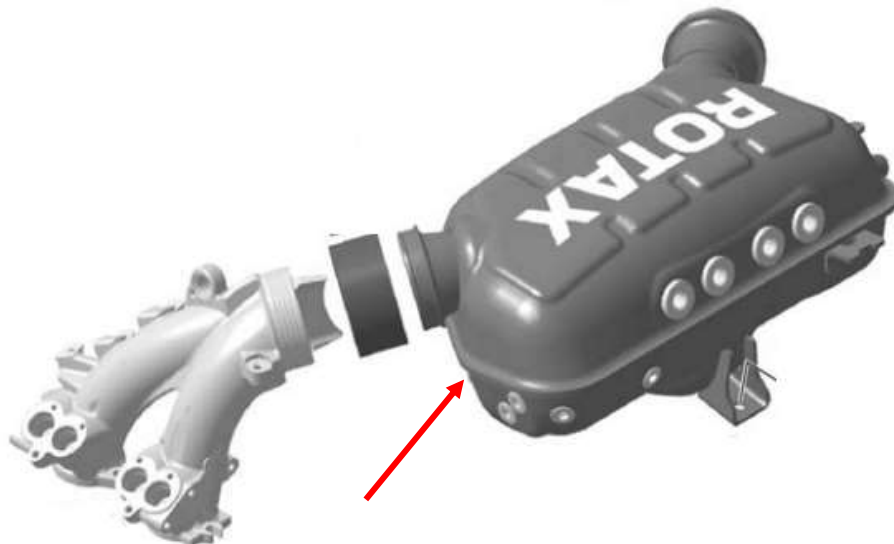
Spare parts and manpower should be covered by the customer.

3. Instructions

1. Remove the engine upper cowling.
2. Remove the old sensor



3. Remove the bolt from the engine Airbox.



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4. Install the hose nipple P/N: 840672 in the engine Airbox.



5. Install UMA fuel pressure sensor according to the scheme below.





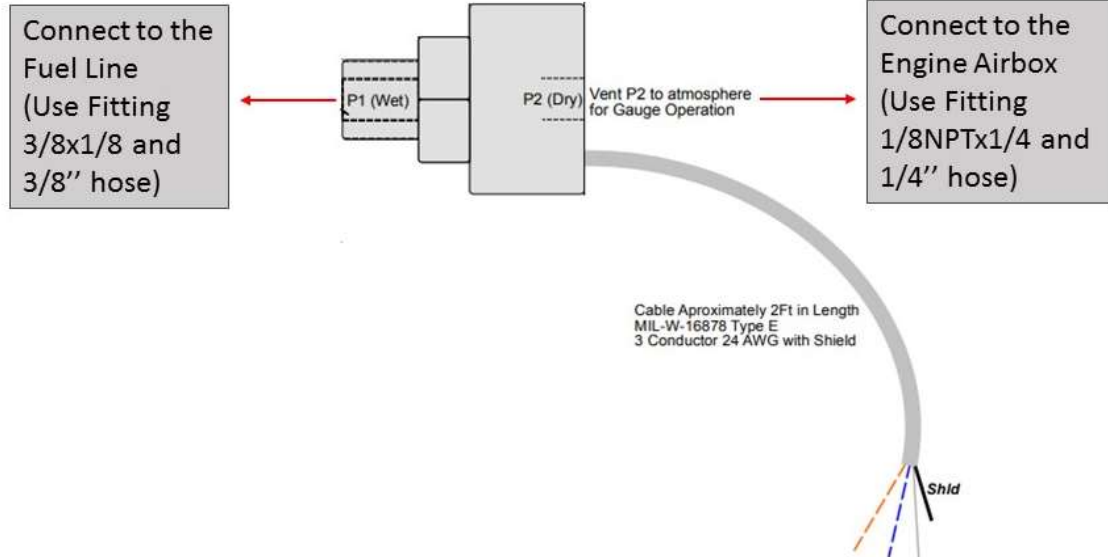
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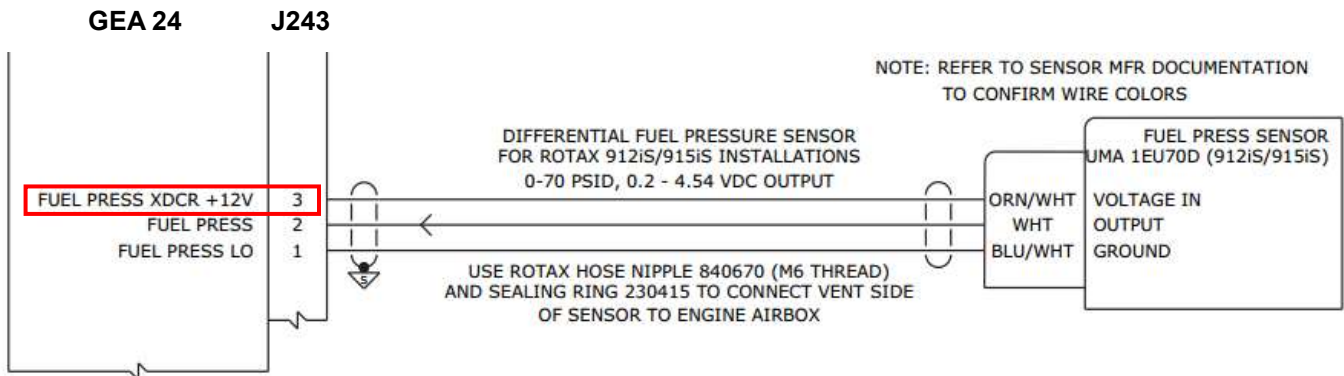
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6. Make the electrical installation of the fuel pressure sensor following the Garmin G3X Scheme:



CAUTION

On GEA 24 which is located behind the instrument panel, the connector J243 (37 pins) should be set for the new fuel pressure sensor voltage (+12V). For this, change the pin 4 for the pin 3.

7. Turn on the Master and Fuel Pumps (Main and Auxiliary) and check for leakage in the fuel line.
8. Set the UMA Fuel Pressure Sensor configuration on the Garmin G3X system:

NOTE

Please refer to the last revision of the G3X Touch Installation Manual.

- a. Access to Configuration Mode / Engine and Airframe / GEA24 Inputs
- b. Select "Fuel Pressure" and set the new Fuel Pressure Sensor as UMA 1EU70D (0-70 PSID)



9. Check the gauge markings of the Fuel Pressure on the G3X system according to the table below:

Instrument	Unit	Red Line Minimum Limit	Green Arch Normal Operation	Yellow Arch Variation with	Red Line Maximum
Tachometer	RPM	1400	1800–5500	1400–1800 5500–5800	5800
Oil temperature indicator	°C (°F)	50 (122)	90-110 (194-230)	50-90 (122-194) 110-130 (230-266)	130 (266)
Coolant Temperature	°C (°F)	---	50-115 (122-239)	115-120 (239-248)	120 (248)
Oil pressure indicator	Bar (Psi)	0,8 (12)	2-5 (29-73)	0,8-2 (12-29) 5 – 7(73 – 102)	7 (102)
Fuel pressure indicator	Bar (Psi)	2,4 (35)	2,8-3,2 (40,5-46,5)	2,4-2,8 (35-40,5) 3,2-3,4 (46,5-50)	3,4 (50)
Fuel Quantity	Liters	---	---	---	---
EGT	°C (°F)	---	600-900 (1112-1650)	900-950 (1650-1742)	950 (1742)
Amperemeter	A	(-) 6	(+) 0 – 18	(-) 0 – 6	(+) 30
Voltmeter A	V	12	12-16	---	---
Voltmeter B	V	12	12-16	---	---

10. Perform a full engine run test.