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Service Bulletin

Exchange of Fuel selector valve SB-ASTM -F2-02

Repeating Symbols:

Please pay attention to the following symbols throughout this document emphasizing particular information.

- ▲ **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.

1 Planning Information

1.1 Affected Aircraft

Type: F2

Model: F2-LSA

Serial Number: T-20-12-01, T-20-12-02, T-21-01-02, T-21-01-03, T-21-02-01, T-23-01-01, T-23-02-01, T-23-03-01, T-23-04-01, T-23-05-01, T-23-06-01, T-23-06-02 T-

Applicable Countries: Not limited

1.2 Concurrent Documents

- none -


1.3 Reason

The fuel selector valve on certain aircraft of the list in section 1.1 exhibited problems one or both of the problems described below:

1. The return fuel flow is not evenly divided into the left and right fuel tank when both fuel tanks are selected. This may lead to overfilling of one fuel tanks with the result that fuel is pumped over board.
2. Fuel supply is unreliable when either left or right fuel tank is selected. That may lead into fuel starvation and subsequent engine failure.

1.4 Subject

The document introduce the dismantling of the Fuel selector valve and the installation of the new one including all necessary additional parts.

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1.5 Compliance

Compliance must be shown prior to next flight.

Safety alert SA-ASTM-F2-02 is superseded in case this service bulletin is embodied. This includes:

- Replacement of the fuel selector as per section 2 and 3 of this service bulletin.
- Issue of new revision Pilot's Operating Handbook F2 AT 0430 0001_03.

▲ Warning: Non-compliance with these instructions could result in further damages, personal injuries or death.

1.6 Approval

This SB is approved by the aircraft manufacturer i.a.w. ASTM F3198 for conduct on aircraft as defined in 1.1. Subsequent to complete and correct conduct of this SB the aircraft will still meet the requirements of the applicable ASTM design and performance specification.

1.7 Type of Maintenance

Heavy

1.8 Personnel Qualifications

For US LSA aircraft: Repairman, Light Sport Aircraft-Maintenance (RLSA-M) – holds a repairman certificate (light sport aircraft) with a maintenance rating, A&P, IA or an FAA repair station.

1.9 Release to Service

Conduct of this SB must be logged in the aircraft log book with date and signature of the responsible Person according to national regulations.

1.10 Weight and Balance

The effect to empty aircraft weight and cg is significantly below 0.45 kg (1 lb). Therefore, in compliance with FAA publication AC 43.13-1B reweighing of the aircraft is not required due to this measure alone.

▲ Warning: When this exemption has been used already for earlier maintenance events on the aircraft, or when other maintenance events are conducted in parallel and the weight changes of the individual events add up to more than 0.45 kg (1 lb), re-weighing of the aircraft is required for the sum of the effects.


1.11 References

Drawings:

Information provided in this SB has been created to ensure a full vision of required changes which differ from the Type design shown in the drawing DT 2800 0000 Fuel system fuselage 07.Feb.24.

1.12 Superseded Documents

Safety alert SA-ASTM-F2-02 is superseded in case this service bulletin is embodied

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1.13 Contact Details

For further information on conduct of this SA, or to report any issues, contact your distributor responsible for your country. Your distributor can be located via the Flight Design general aviation website: www.flightdesign.com under "Dealer Location". In cases where the local distributor is not known or available contact Flight Design general aviation GmbH directly:

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1.14 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 of this Service Bulletin is requested to contact Flight Design immediately to clarify the issue.

2 Resources

2.1 Pilot Operating Handbook

The pilot operating handbook must be updated to revision 3, doc.-no. AT 0430 0001_03.


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2.2 Parts


Specification of parts to produce required changes is shown in table 1.





Table 1


Pos	View	Description	Q-ty, pcs
1		FS2020 Duplex Fuel Selector	1
2		Check Valve CK375-MH-14-BRP	1
3		T flared tube AN6 Male-female	1

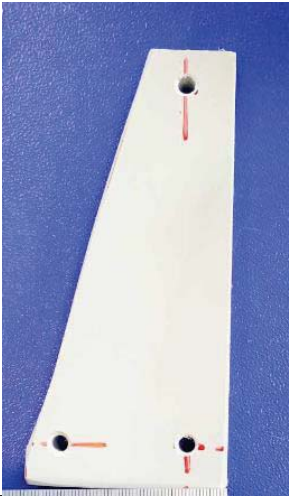


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4		AN824-6D TEE 3/8 OD, 9/16"-18	1
5		Phenix Swivel Coupler Stright - AN6-AN6 fitting	2
6		PHENIX 90 deg Hose end 3/8" AN6 J3690-2	4




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7		PHENIX 90 deg Swivel Coupler AN6-AN6 Fitting C690-2	2
8		AN Fitting Elbow AN821-6D	1
9		AN Fitting AN815-6D UNION	1
10		Swage fitting 10mm Nut 9/16-18 UNF	1




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11		Spacer for installation Fuel bracket	1
12		New design Fuel Selector Handle Cover	1
13		Connection Flange ECA1#2	1

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14		Selector plate	1
15		Smooth I.D. Clamps JS2429	16
16	Fuel Hose	Fuel pipe, vehicle FUELPIP-3E-(FPMECO)-BLACK-D9,3X15,3	3m
17	Fire sleeve	Aerostyle Pyrojacket, 5/8"	3m
18		Clamp ABA 9W 15-24/9 S20	4

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19		Pipe and Fastening clamp 20mm DIN 3016	4
20	Self locking nut M5 DIN 985	Change nuts M5 due to reinstallation	13
21	Self locking nut M3 DIN 985	Change nuts M3 due to reinstallation	1
22		Screw ISO 7380 M5x20	8
23		Screw ISO 7380 M5x35	3

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24		Bolt M3x8-8.8 DIN 912	1
25		Screw AN526-832R8	1
26	Socket isol. 5mm 1,5-2,5sqm	For restore Yellow wire of OVP module step See step 3.7	1
27		Washer DIN 125 5.3mm 140HV A2K	16

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28		Washer DIN 9021-5,3mm	4
29		Screw M4x16 DIN 7991	1

2.3 Materials


1. Sealing material EZ TURN (FUELLUBE) 5 OZ TUBE
2. Loctite 648
3. Bonding liquid middle strength (Green)
4. Odurless end Dip

2.4 Tools

1. Tools for metall parts adjustment (See Pic. 2.1)



3- Metall file, 4-Pliers,5- Safety glasses, 6-Cutting wheel for metal,7-Cutting machine
 Pic.2.1 Tools for metall parts adjustment

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2. Drill tool with with a set of drills and taps (M2,M3 and 8-32) for working with metal (See pic.2.2)




Pic. 2.2 Drill tool

3. Vise with aluminum inserts (See pic.2.3)



Pic. 2.3 Vise with aluminum inserts

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4. Crimping tool 0,5-6,0 mm² or equivalent (See pic.2.4)



Pic 2.4 Crimping tool

2.5 Special Tools

- none -

2.6 Manpower

The described task can be performed within approximately 8 hours (working time).

2.7 Cost

Spare parts will be provided by Flight Design free of charge.


3 Instructions

3.1 General

Actions begin with the dismantling of all the necessary parts to provide access to the area for performing the main work actions. Second part is about replacing the selector and installing the new one with all needed additional parts. The last part describes the assembly of all the parts dismantled in the first part.

3.2 General Procedures

AC 43.13-1B: Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair

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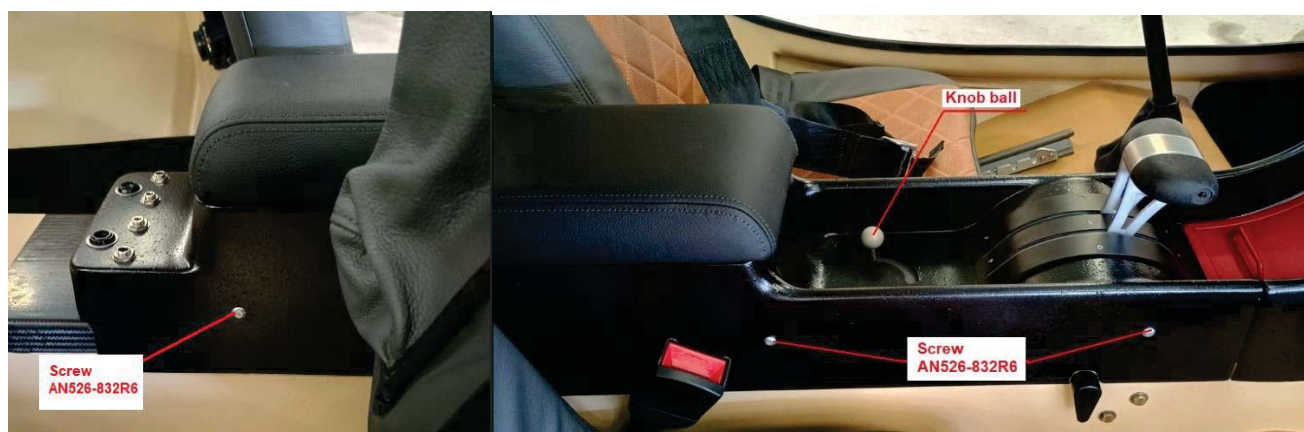
3.3 Detailed Procedure

Part 1 Dismantling parts to gain access to the main work area

- **Note:** All disassembled parts must be retained for use. This does not apply to parts that were damaged during disassembly or parts that needed to be changed at every assembly as like as Self-locking nuts.

Step 1 Disassembling of Armrest

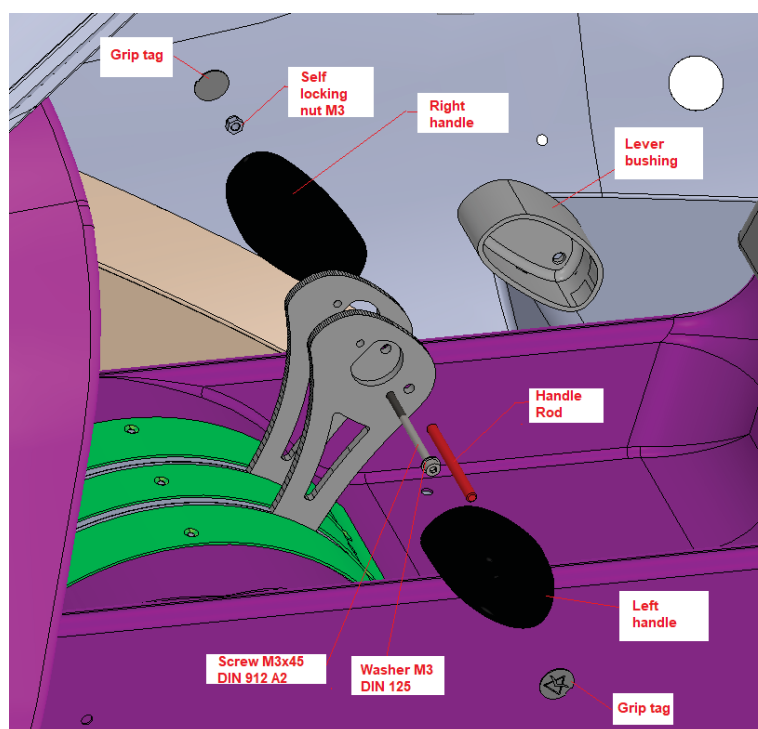
1.1 Unscrew bolts AN526-832R6 -6pcs and Knob ball – 1pcs (See Pic.3.1)




Pic.3.1 Armrest installation Right side. For left side is mirrored

1.2 Disassemble the throttle grip (See Pic.3.2)

- **Note:** Lock nut M3 DIN 985 A2 should be changed with a new one while assembling throttle grip in part 3.



Pic. 3.2 Scheme of throttle grip installation

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1.3 Disconnect the Jack connectors and remove the armrest (See Pic.3.3)



Pic. 3.3 Jack connectors

Step 2 Disassembling of Lower section panel (See Pic.3.4)

2.1 Unscrew 4 pcs screws AN526-832R8 with polyamide washers.

2.2 Unscrew 1 pcs screw M3x15 of Fuel sector handle.

2.3 Dissassemble Lower panel and disconnect all connectors.

2.4 Dissassemble Heat Grip. Unscrew Knurled nut.


2.5 Unscrew 4 pcs screws M5x16 with Self-locking nuts M5 DIN 985 of fuel selector cover.

2.6 Disconnect electric connections.

- **Note:** Lock nuts M5 DIN 985 should be changed with a new one while assembling in part 3.
- **Note:** Screws M5x16 should be changed with a Screws M5x20 (See table 1 item 22) while assembling in part 3.



Pic 3.4 Scheme of Installation Lower section panel


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Step 3 Disassembling of Instrument console

3.1 Remove Displays GDU460 left and right, disconnect all connectors (See Pic.3.5)




Pic. 3.5 Monitor's GDU 460 Removing

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3.2 Remove other Garmin devices specified by the aircraft specification, disconnect all connectors (See pic.3.6)

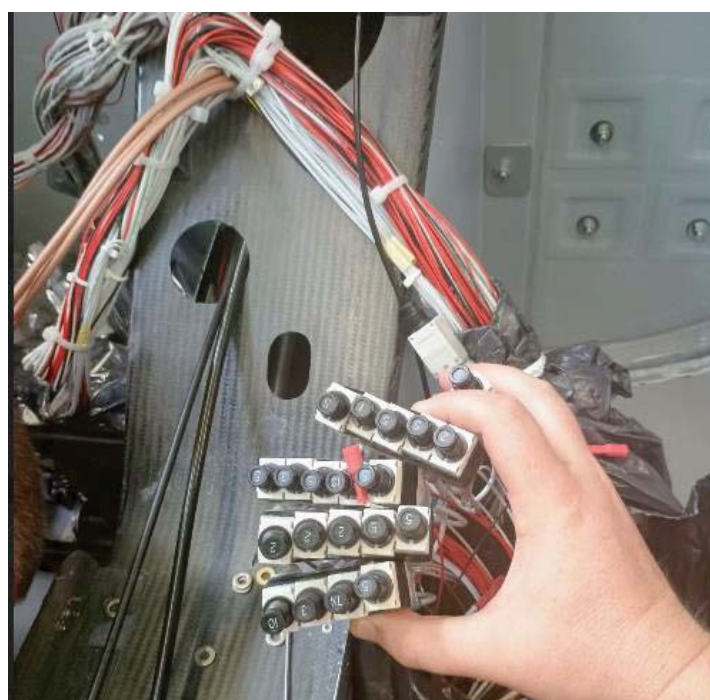


Pic.3.6 Garmin devises removing


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3.3 Remove circuit breakers from upper panel (See pic. 3.7)

- **Note:** Circuit breakers are part of wiring harnesses fuselage.



Pic. 3.7 Circuit breakers removing

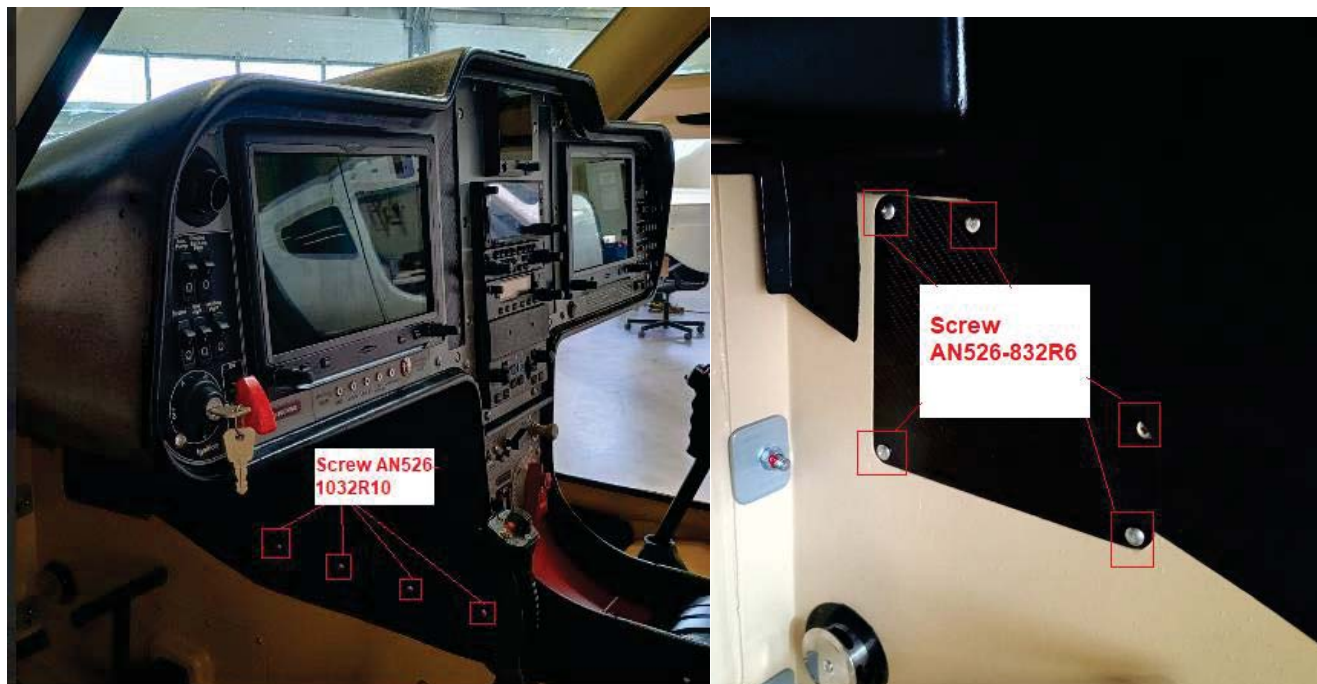
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3.4 Unscrew 8 pcs screws AN526-1032R10 (See pic.3.8). Picture is describing left side, for right side is mirrored.

3.5 Dismount Hatch. Unscrew AN526-832R6 -5 pcs (See pic.3.8)

3.6 Dismount upper attachment points of instrument console. Unscrew Self-locking nuts M5 – 2pcs with washers DIN 9021. Location is shown on pic.3.9.1 and 3.9.2.


- **Note:** Lock nut M5 DIN 985 should be changed with a new one while assembling in part 3.
- **Note:** In older configuration of F2-LSA upper attachment points are differ (See Pic.3.9.3). To dismount upper attachment points of instrument console the 3 screws M4x12 DIN 7380 should be unscrewed.



Pic. 3.8 Dismounting of instrument console and fuel hatch

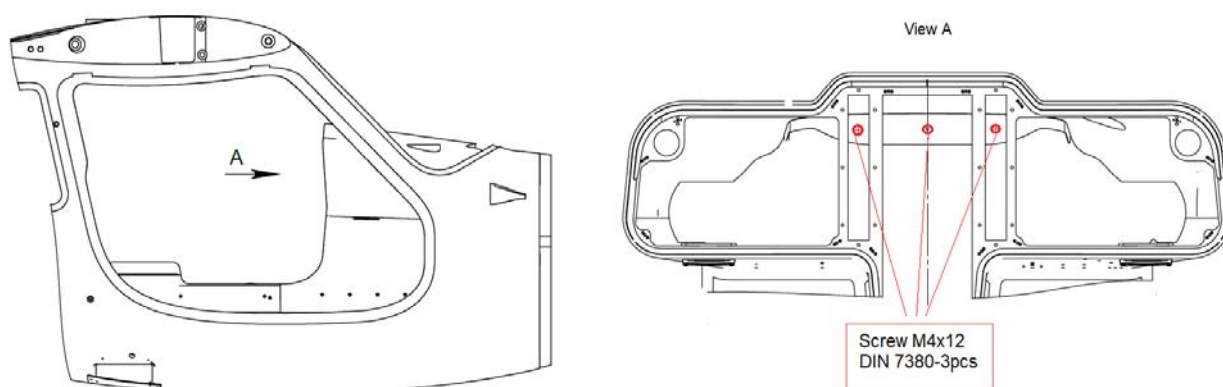


Pic. 3.9.1 Attachment points on Fuselage. Bonding Fastener M5


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Pic. 3.9.2 Dismount upper attachment points of instrument console



Pic.3.9.3 Upper attachment points of Instrument console for previous configuration

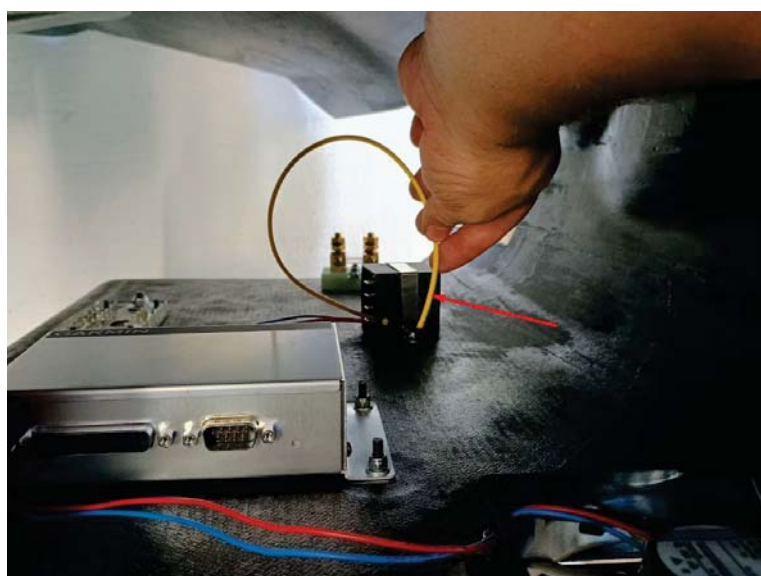
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3.7. Remove instrument console from Fuselage. View of removed instrument console is shown on pic.3.10


- **Note:** All connectors should be disconnected.
- **Caution:** Remove the instrument console carefully so as not to touch the handle of the rescue system.
- **Caution:** Yellow wire of OVP module must be cutted during operation of removing. In part 3 of this SB this connection must be restored (See pic.3.10.1)



Pic. 3.10 Removed instrument console



Pic. 3.11 Yellow wire of OVP module cutted

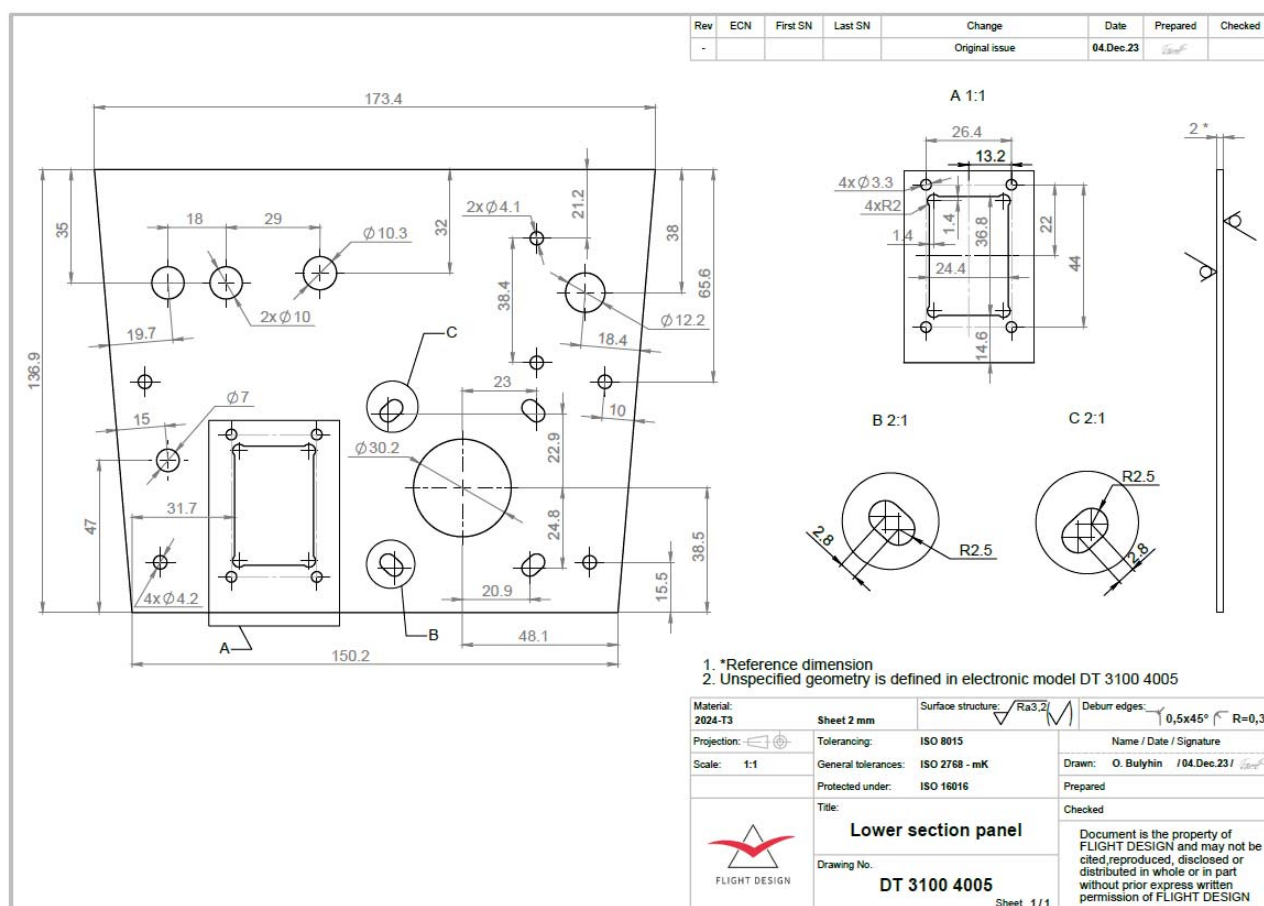
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Part 2 Removing the Fuel selector valve and installing the new one with all needed additional parts


Step 1 Lower section panel adjusting

1.1 Produce slots in lower panel according to sketch (See pic.3.12) View B, C use tools from chapter 2.4.

- **Note:** In some older configurations of F2-LSA lower section panel is already fit with with the new design Fuel Selector Handle Cover (see table 1.) In this case, no step is needed.



Pic. 3.12 Lower section panel

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Step 2 Adjusting of Fuel selector mounting plate

2.1 Adjust Fuel selector mounting plate

2.1.1 Install mounting plate to the vise with aluminium inserts (See pic.3.12.2)

2.1.2 Set dimension hole position for stopper (See pic. 3.12.1). It should be between 9 and 6 o'clock position.

2.1.3 Drill hole 2,5mm to a depth of approximately 5mm. The bolt head must be flush with the plane (See pic. 3.12.1)

2.1.4 Cut the M3 thread, install bolt M3x8-8.8 (See table 1 pos. 24)

Note: Use Bonding liquid middle strength (Green) for installation bolt (See chapter 2.3.3).

2.1.5 Cut partly attachment point as described on pic. 3.12.1


- **Note:** Use tools for metall parts adjusting See chapter 2.4



Pic.3.12.1 Adjusting of Fuel selector mounting plate



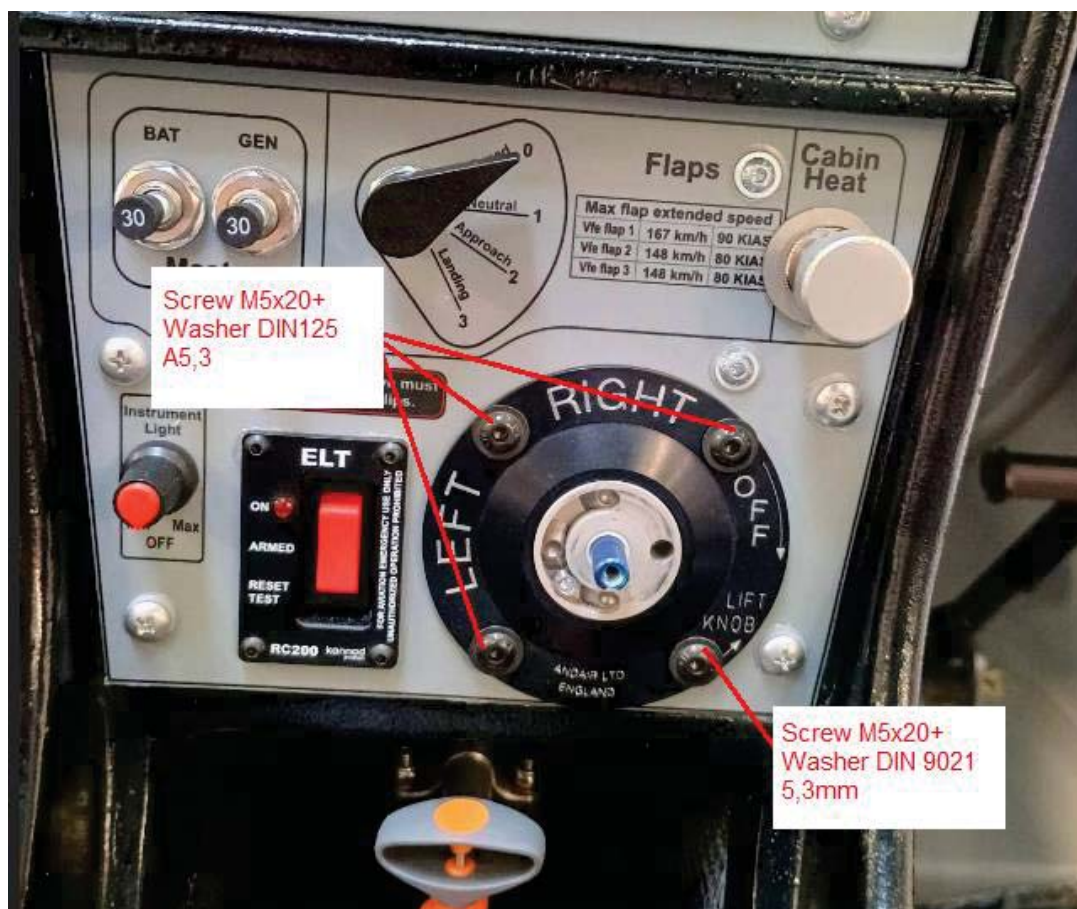
Pic.3.12.2 Process of Mounting plate adjusting

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Step 3 Assembling Fuel selector handle cover, Mounting plate, Selector handle with lower section panel

3.1 Install adjusted Mounting plate, new design Fuel Selector Handle Cover (See table 1 pos.10) to lower section panel (See Pic.3.13).

- **Note:** Position of mounting plate should correspond with Pic.3.13.
- **Note:** Use washers DIN 125 5,3 which were dismantled on step 2.6, Use Washer DIN 9021-5,3mm (See table 1 pos.28).
- **Note:** Use Bolts M5x20 (See table 1 pos.22).

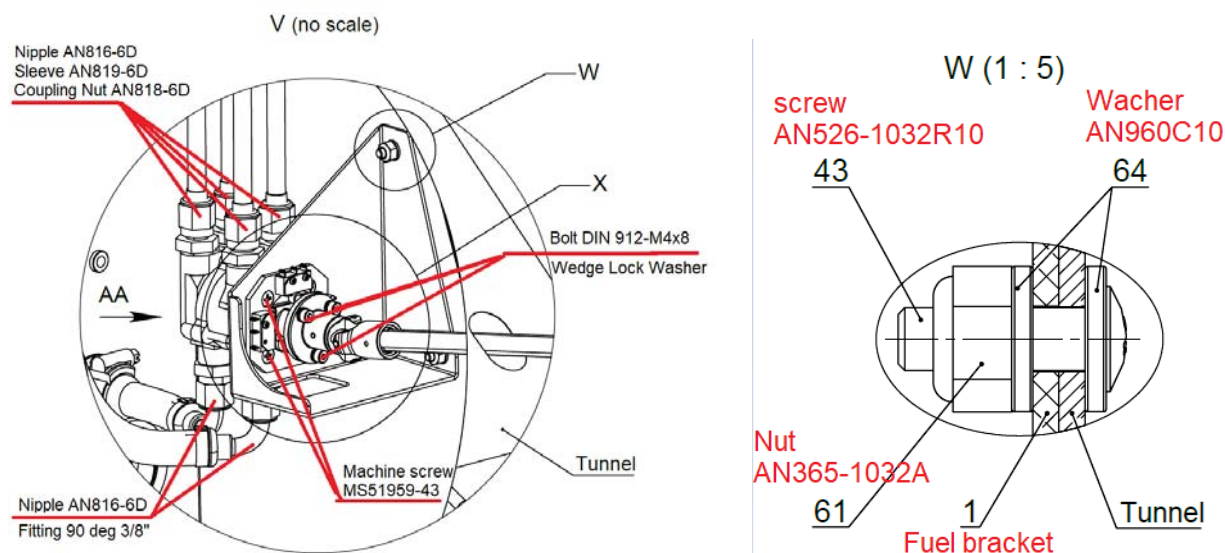


Pic.3.13 Installation of Mounting plate with new design Fuel Selector Handle Cover

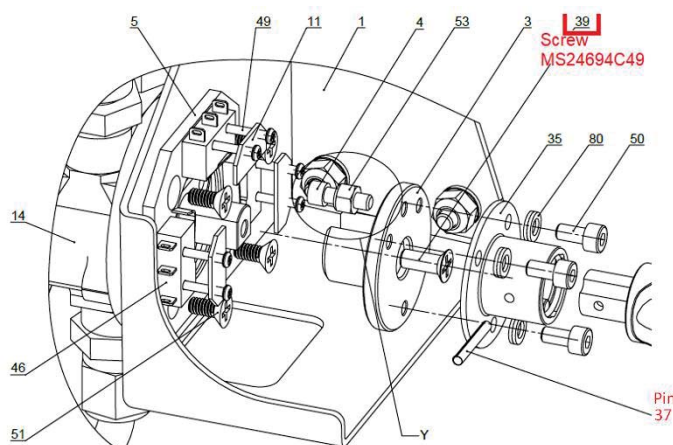
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Step 4 Removing the Fuel selector valve and installing the new one


- 4.1 Disassemble Supply and Return fuel lines of left and right Fuel tank. Dismount Fitting AN816-6D-4pcs, Sleeve AN819-6D – 4pcs, Coupling nut AN818-6D-4pcs (See Pic.3.15).
 - 4.2 Disassemble Supply and Return fuel lines in lower area of selector valve. Dismount Fitting AN816-6D-2pcs, Fitting 90 deg 3/8" – 2 pcs (See Pic.3.15).
 - 4.3 Unscrew Bolts M4x8 with Lock washers – 3pcs (See Pic.3.15)
 - 4.4 Remove the Fuel selector valve with Fuel bracket (Pic.3.15 view W).
 - 4.5 Unscrew screw MS24694C49-1pcs (See Pic.3.16).
 - 4.6 Unscrew screw MS51959-43 – 4pcs (See Pic.3.15).
 - 4.7 Remove Selector plate (pos.5,51) and switches (pos.46,49,11)
- **Note:** Positions 3,4,5,14,35,39,50,53,80 on pic. 3.16 and pos.43,61,64 on pic. 3.15 will not be used.
 - **Note:** Pin pos.37 on pic. 3.16 will be used.
- 4.8 Remove fuel aluminium tubes with fittings,clamps and short fuel hoses (See pic.3.16.1).
- **Note:** Parts removed on step 4.8 will not be used.

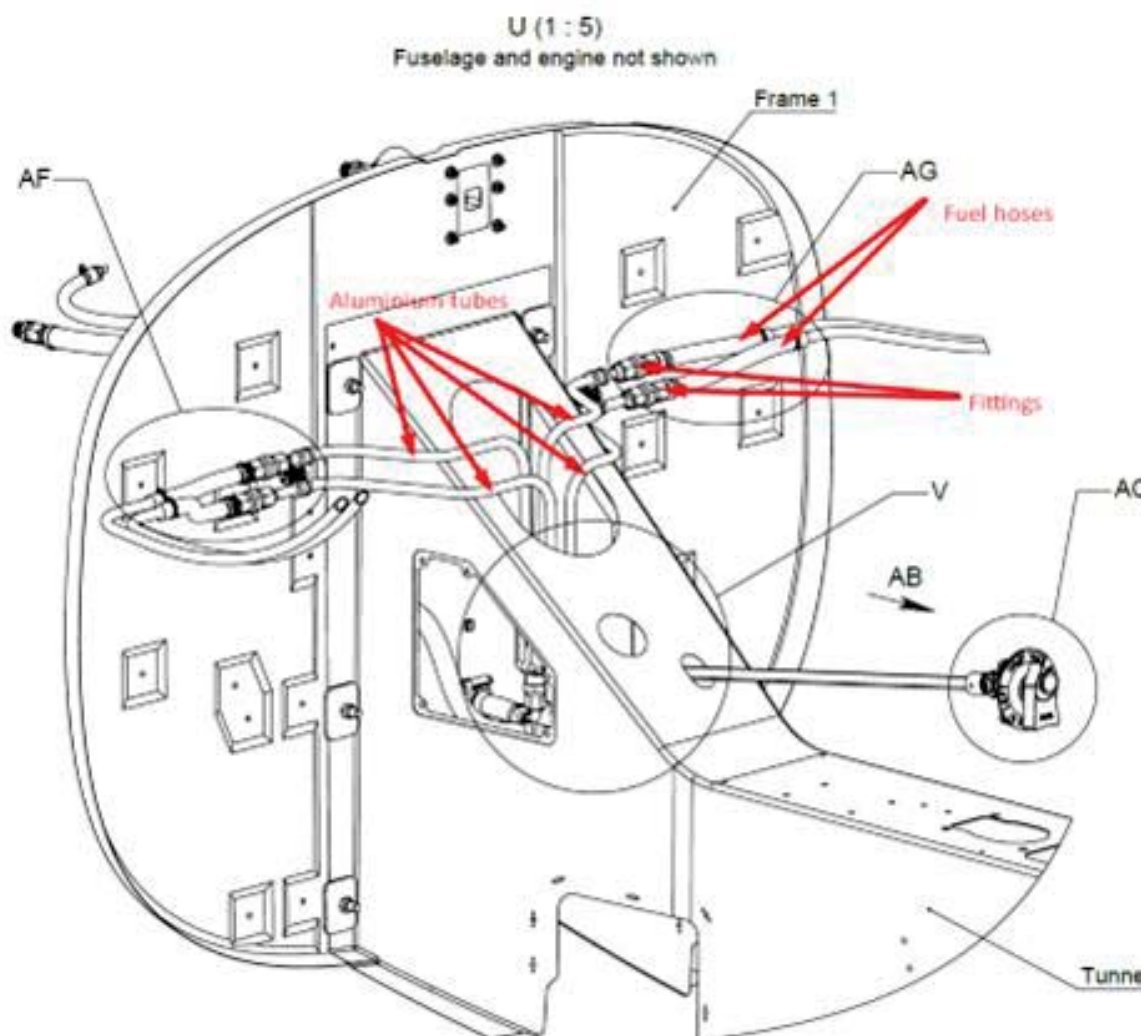


Pic. 3.15 Removing the Fuel selector valve




Pic. 3.16 Removing the Fuel selector valve

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Pic. 3.16.1 Removing of Fuel lines from Fuel tanks

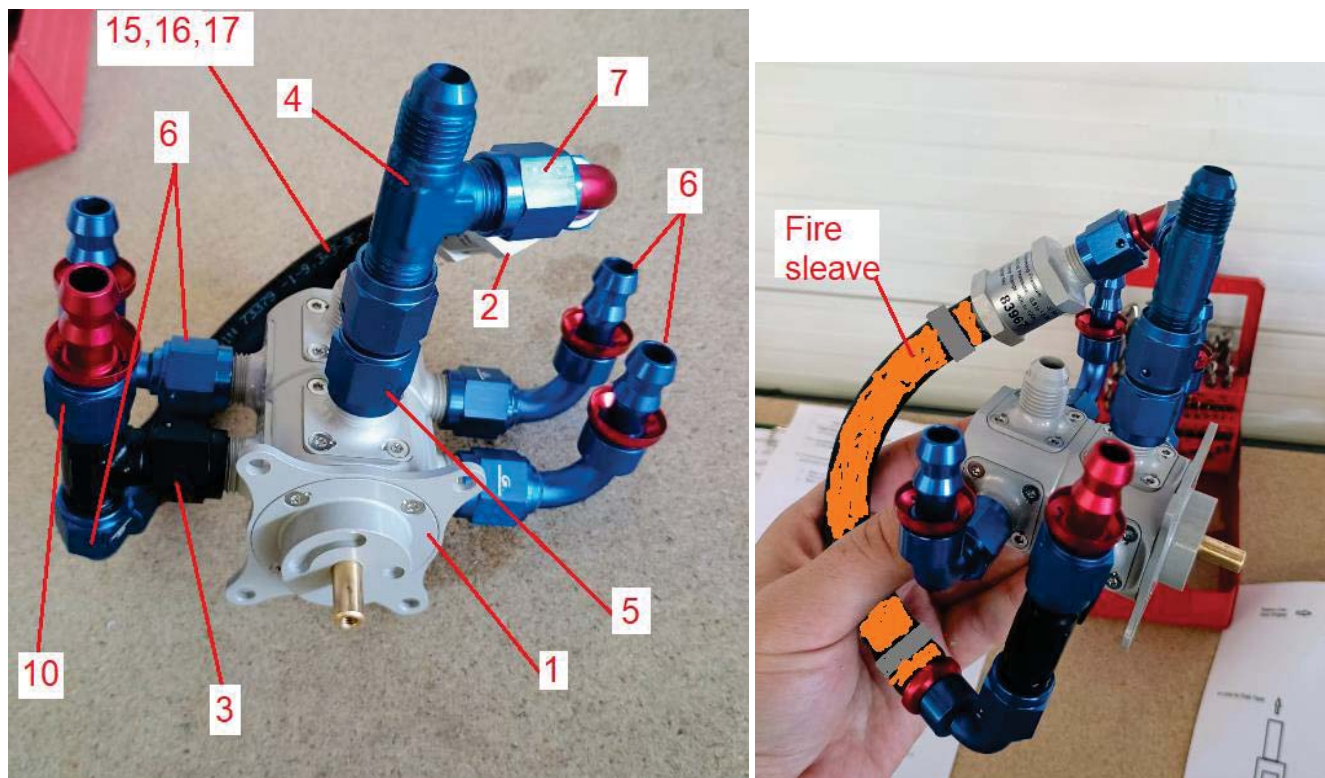
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4.9 Produce preassembly of new Fuel selector duplex valve (See table 1 Pos.1).

- **Note:** All connections of fuel lines with fittings grease surfaces should sealed with EZ TURN (FUELLUBE) 5 OZ TUBE (see chapter 2.3.1).

4.9.1 Install Fittings to Fuel selector valve with preassure relief line (See pic.3.17)


- **Note:** All fittings and parts needed for assembly are indicated in table 1.



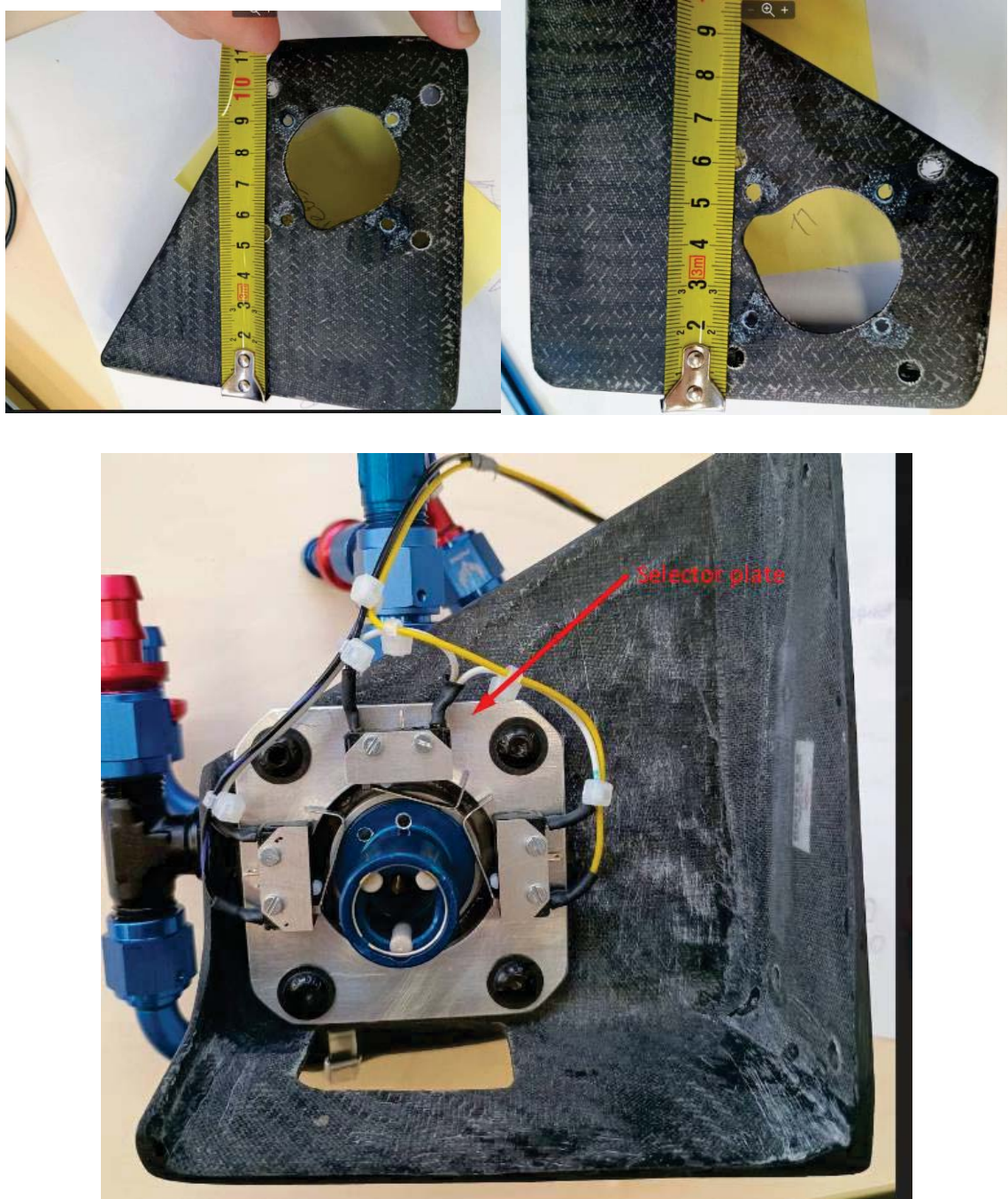
- 1- FS2020 Duplex Fuel Selector -1pcs
- 2- Check Valve CK375-MH-14-BRP -1pcs
- 3- T flared tube AN6 Male-female -1pcs
- 4- AN824-6D TEE 3/8 OD, 9/16"-18 -1pcs
- 5- Phenix Swivel Coupler Stright - AN6-AN6 fitting -1pcs
- 6- PHENIX 90 deg Hose end 3/8" AN6 J3690-2 -4pcs
- 7- PHENIX 90 deg Swivel Coupler AN6-AN6 Fitting C690-2-1pcs
- 10- Swage fitting 10mm Nut 9/16-18 UNF -1pcs
- 15- Smooth I.D. Clamps JS2429 -4pcs
- 16- Fuel pipe, vehicle FUELPIP-3E-(FPMECO)-BLACK-D9,3X15,3- 0,3m
- 17- Fire sleeve- 0,3m

Pic. 3.17 Preassembly of Fuel selector valve

4.9.2 Adjust Fuel bracket to fit with Fuel selector duplex valve and Selector plate (table 1 pos.14).

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Drill 4pcs extra holes Ø5mm and adjust central hole (See pic.3.17.1)



Pic. 3.17.1 Adjusting of Fuel bracket

4.9.3 Install preassembled new Fuel selector duplex valve (step 4.9.1) to Fuel bracket using bolts Screw ISO 7380 M5x20 (See


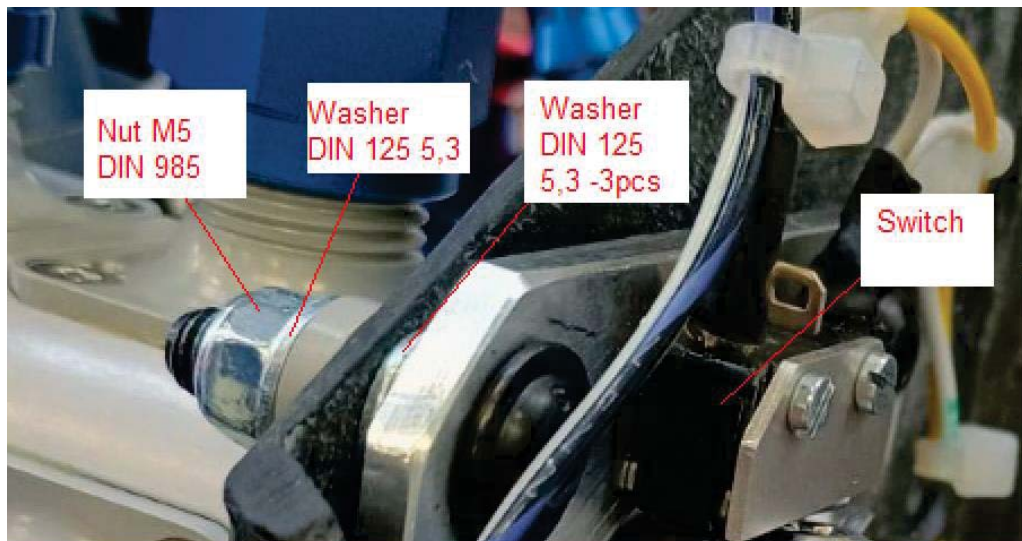
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table 1. Pos.22) and nuts M5 DIN 985 (See table 1. Pos.22) with new Selector plate (See table 1. Pos.14) and switches (pos.46,49,11 Pic.3.16)

- **Note:** Location of fitting parts are displayed on Pic. 3.17.2.
- **Note:** Use Loctite 648 for mounting bolts without self locking nuts.
- **Note:** Distance between Selector plate and Fuel bracket should be 3mm (See pic.3.17.3).




Pic. 3.17.2 Installation on Fuel Bracket



Pic. 3.17.3 Distance between Selector plate and Fuel bracket

4.9.4 Adjusting Connection flange ECA1#2 (See table 1 pos.14).

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4.9.4.1 Drill hole Ø3,5mm in Connection flange ECA1#2

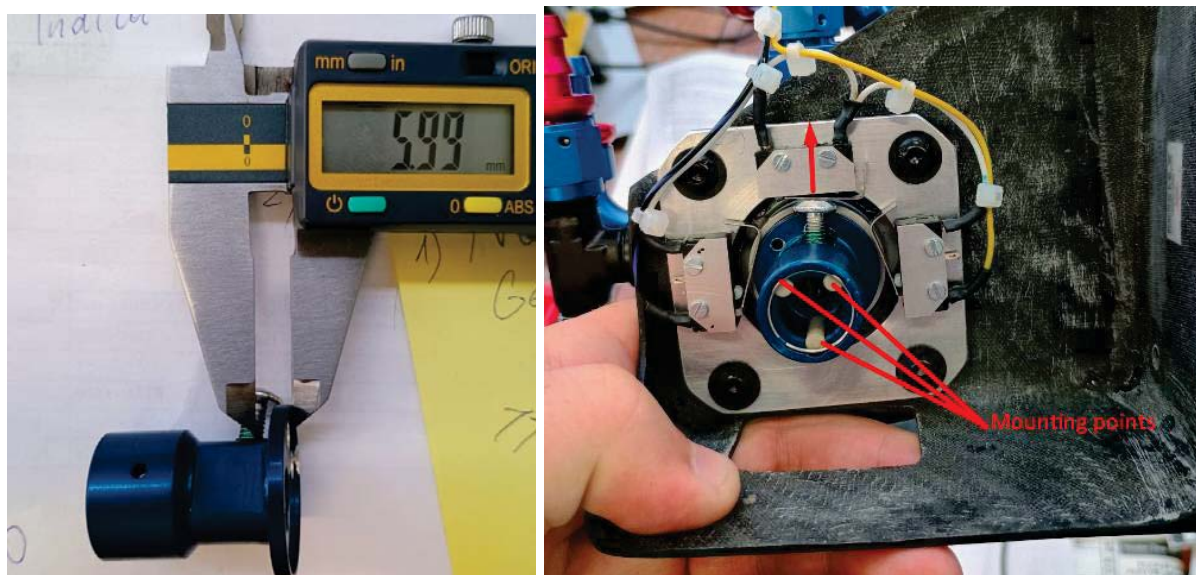
4.9.4.2 Cut the thread 8-32

4.9.4.3 Install screw AN526-832R8-1pcs (See table 1 pos.25)

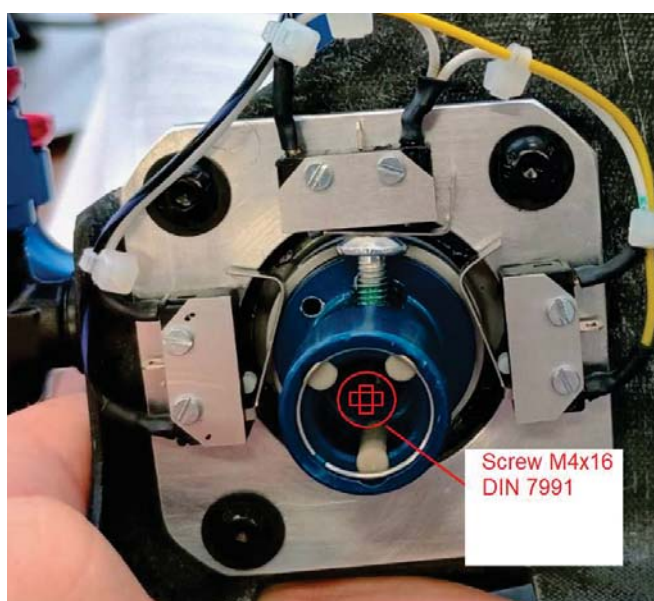
- **Note:** Use dimensions directly from pic.3.17.2. The screw must point upward in relation to the three mounting points.
- **Note:** The screw installation length should correspond with pic. 3.17.4.
- **Note:** Use Bonding liquid middle strength (Green) (See chapter 2.3.3).

4.9.4.4 Fix the Adjusted Connection flange ECA1#2 with Fuel selector valve using Screw M4x16 (See table 1 pos.29) Pic 3.17.5.

- **Note:** Use Loctite 648 for mounting Screw M4x16.




Pic. 3.17.4 Adjusting Connection flange ECA1#2



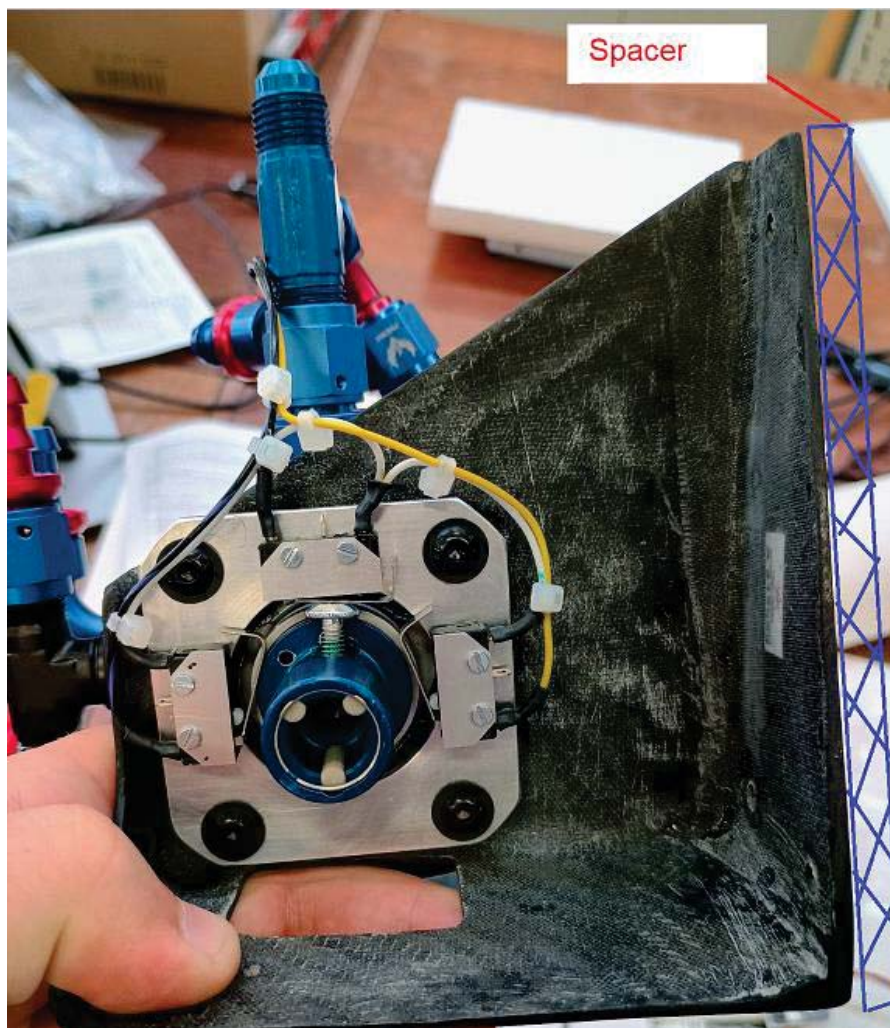
Pic. 3.17.5 Fixing the Adjusted Connection flange ECA1#2 with Fuel selector valve

4.10 Install preassembled new Fuel selector valve back to Tunnel (See pic.3.18).

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4.10.1 Screw the Screws ISO 7380 M5x35– 4pcs (See table 1 pos.23) with Nuts M5 and washers DIN 9021-5,3mm (See Pic.3.18).

- **Note:** Use Spacer for installation (See table 1 pos.11).

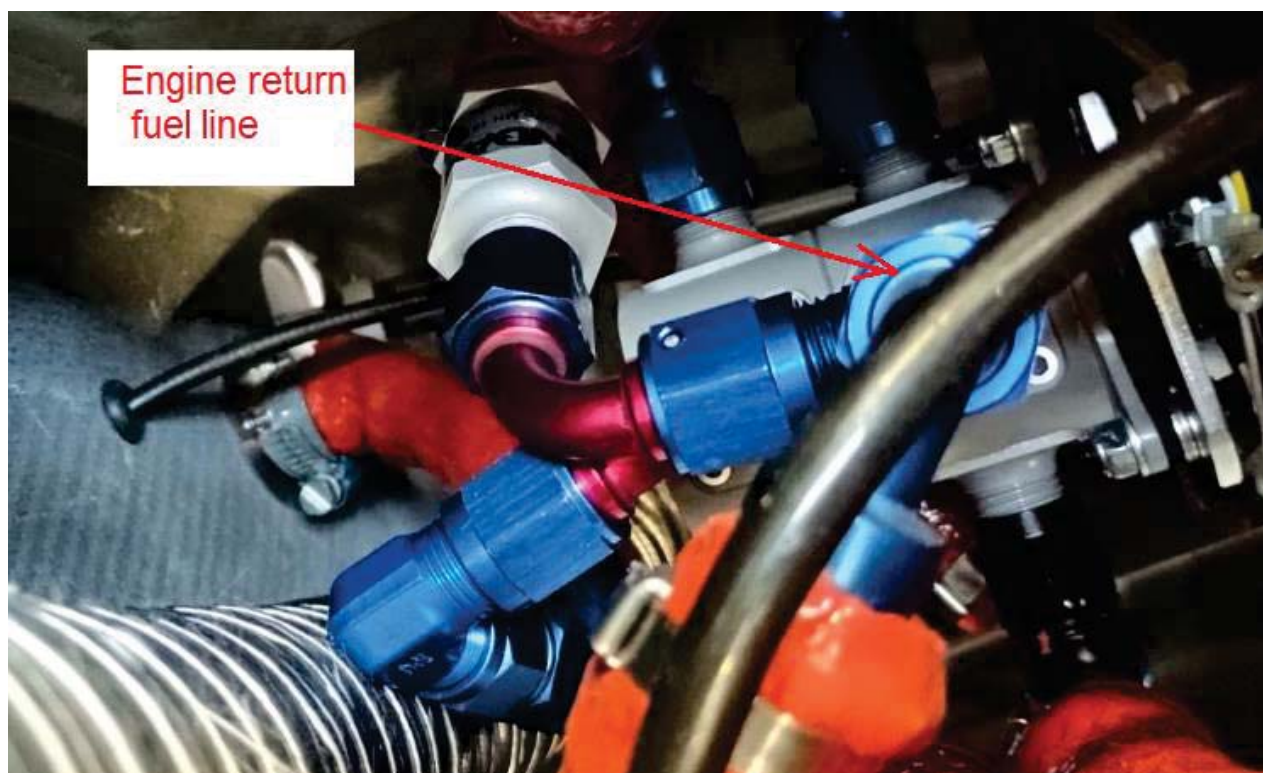


Pic.3.18. Installation of preassembled Fuel selector valve back to Tunnel

4.11 Connect the Engine Return fuel line from upper side of Fuel selector valve (See Pic.3.19)

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- **Note:** All connections of fuel lines with fittings grease surfaces should sealed with EZ TURN (FUELLUBE) 5 OZ TUBE (see chapter 2.3.1).



Pic.3.19 Connection the Return fuel line from upper side of Fuel selector valve

4.12 Connect the Engine Supply fuel line from upper side of Fuel selector valve

4.12.1 Assembly fittings with Fuel selector valve and Engine supply fuel line (See pic. 3.20 and 3.21)


Fitting 90 deg AN6-AN6-1pcs (See table 1 pos.7)

AN Fitting elbow AN821-6D-1pcs (See table 1 pos.8)

Straight AN6-AN6 Fitting -1pcs (See table 1 pos.5)

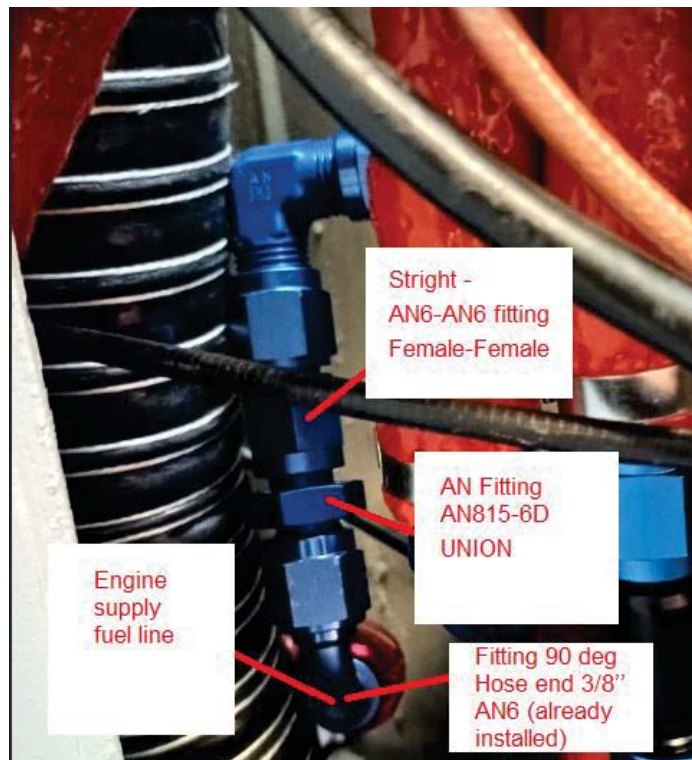
AN Fitting AN815-6D UNION – 1pcs (See table 1 pos.9)

- **Note:** All connections of fuel lines with fittings grease surfaces should sealed with EZ TURN (FUELLUBE) 5 OZ TUBE (see chapter 2.3.1).


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Pic. 3.20 Connect the Engine Supply fuel line upper side view



Pic. 3.21 Connect the Engine Supply fuel line left side view

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4.13 Adjusting and installation of Return and Supply fuel lines from left and right Fuel tank.

- **Note:** All connections of fuel lines with fittings grease surfaces should sealed with EZ TURN (FUELLUBE) 5 OZ TUBE (see chapter 2.3.1).

4.13.1 Produce Fuel hoses - 4pcs (See table 1. Pos.16) of Return and Supply fuel lines from left and right Fuel tank. Adjust needed length for connection with Fuel selector valve.

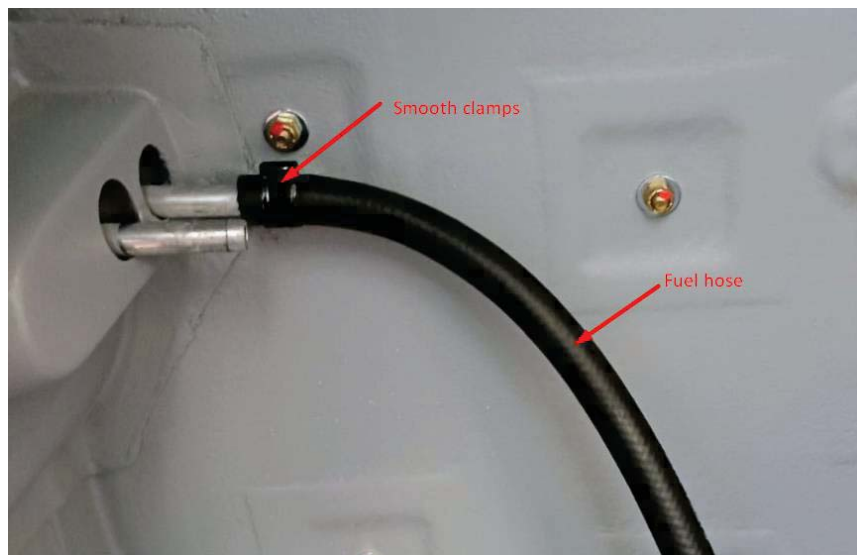
4.13.2 Produce Fire sleeves- 4pcs (See table 1. Pos.17) with length adjusted for Fuel hoses produced on step 4.12.1.

4.13.3 Connect Fuel hoses and Fire sleeves with aluminium tubes from AB-pillar (See pic.3.22,3.23). Use Smooth I.D. Clamps JS2429-4pcs (pos.15 table 1) for installation Fuel hoses and Clamp ABA 9W 15-24/9 S20-4pcs (pos.18 table 1) for installation Fire sleeves.

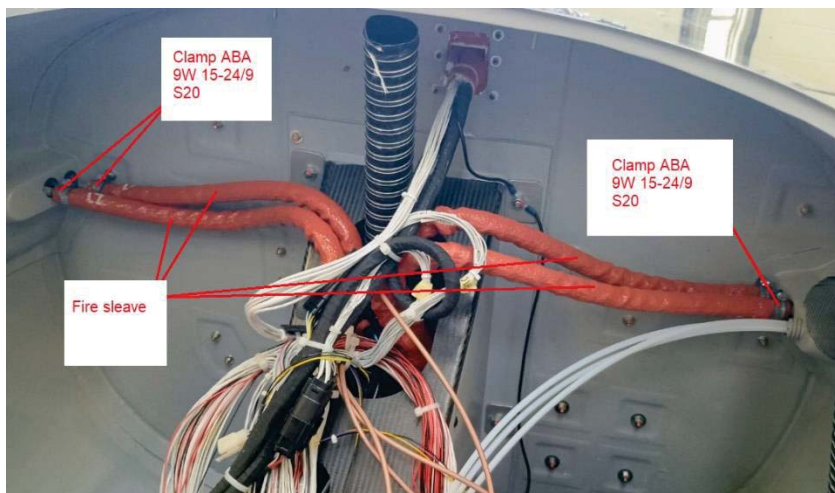
- **Note:** On the ends of fire sleeve Odurless End Dip should be applied (See chapter 2.3.4). From every side 20mm (inner surface).

4.13.4 Connect Fuel hoses with Fire sleeves directly on Fuel selector valve's fittings (See pic.3.24). For connection Fuel hoses and Fire sleeves use clamps Smooth I.D. Clamps JS2429-8pcs.


- **Note:** On the ends of fire sleeve Odurless End Dip should be applied (See chapter 2.3.4). From every side 20mm (inner surface).

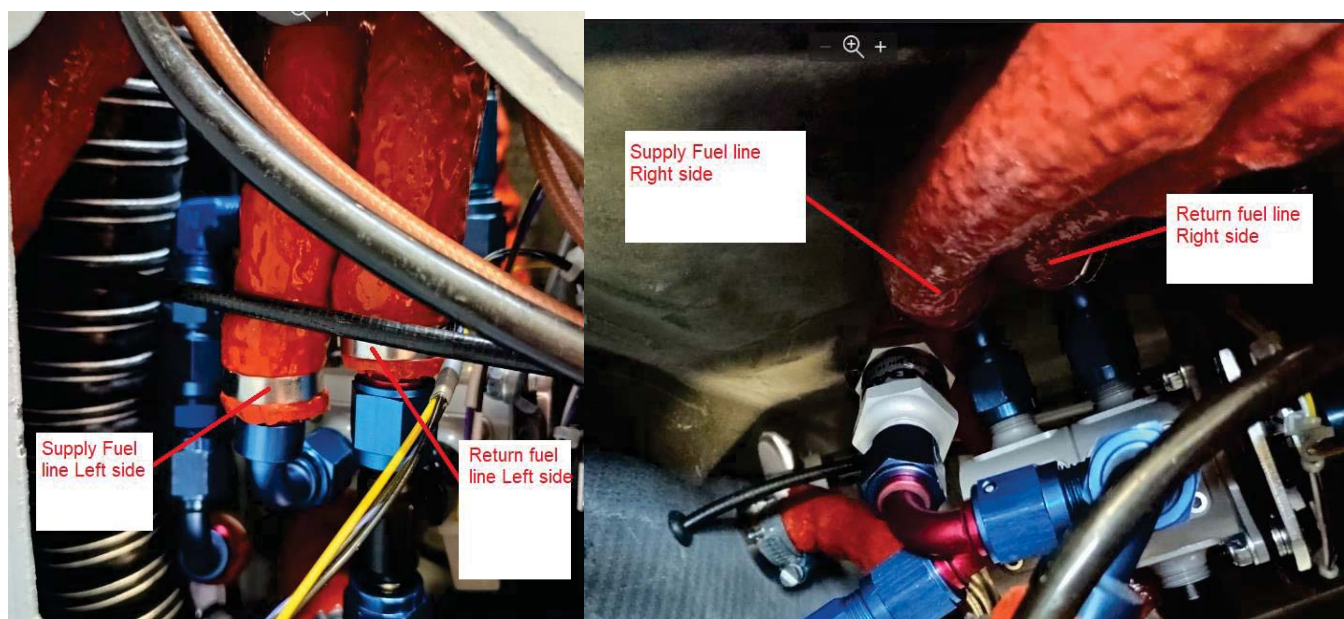


Pic. 3.22 Installation of Fuel hose with Smooth clamp



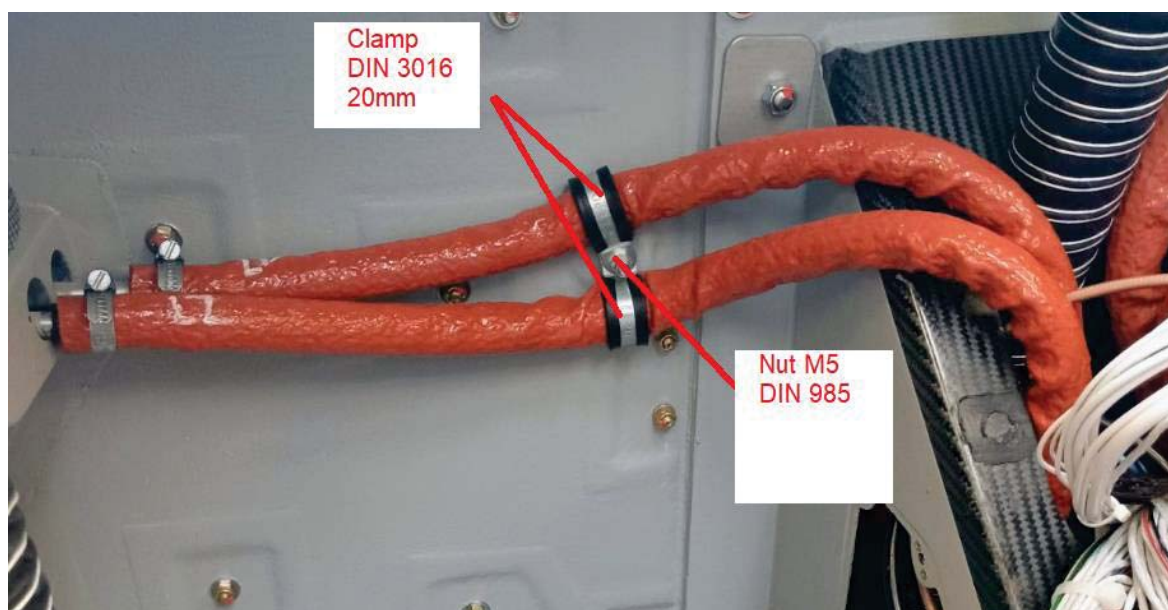
Pic.3.23 Installation of Fire sleeves

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Pic. 3.24 Connecting Fuel hoses with Fire sleeves directly on Fuel selector valve's fittings

4.13.5 Fixation of Fuel hoses and Fire sleeves to Fuselage. Use Pipe and Fastening clamp 20mm DIN 3016 – 4pcs (See table 1 pos.19) and nut M5 DIN 985 (See table 1 pos.20) for fixation Fuel hoses with Fire sleeves on Frame 1 (Pic.3.25). For left and right side of fuselage is similar.



Pic.3.25 Fixation of Fuel hoses and Fire sleeves to Fuselage

Step 5 Leak test system pressure 0.2...0.25 bar. at wing fuel lines disconnected from fuel tanks intakes.

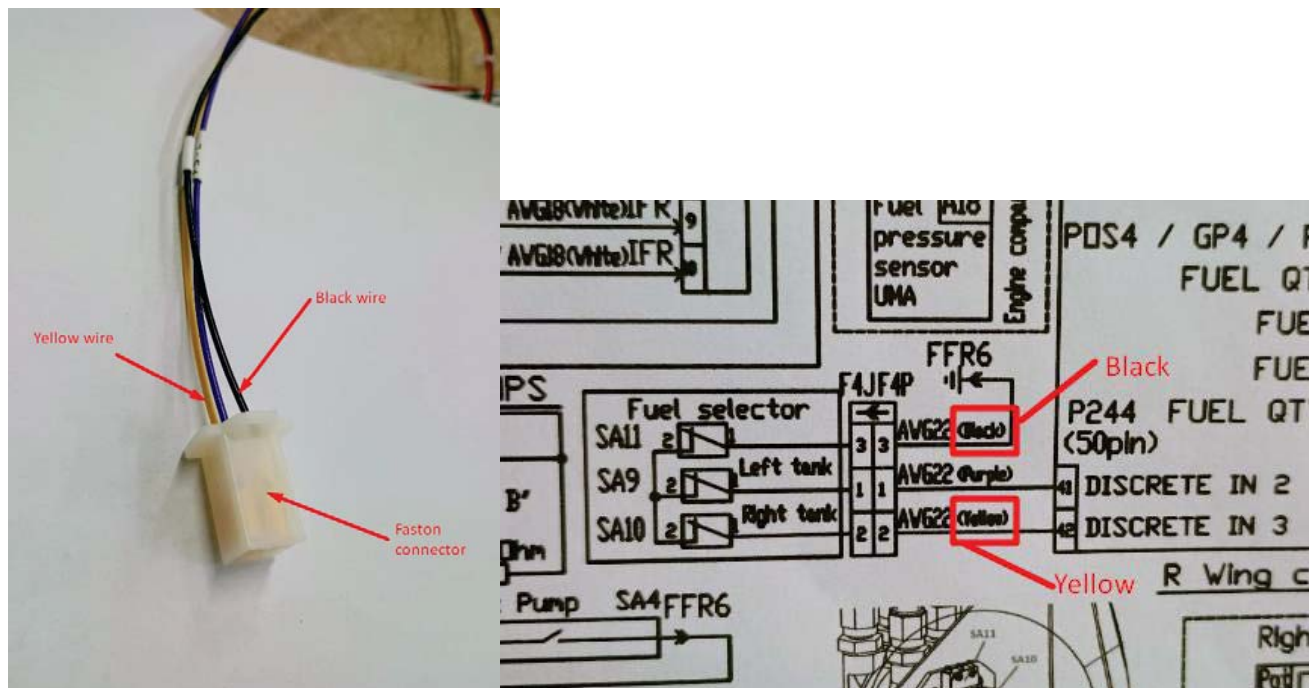
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Step 6 Connector's pin-out correction

Change wires on Faston connector according new Fuel selector valve's positions.

Open the connector, Swap the Black and Yellow wires, assembly connector.

The initial arrangement of wires in the connector is shown on Fig.3.26.



Pic.3.26 The initial arrangement of wires in the Faston connector

Part 3 Assembly of previously disassembled parts and settings

- **Note:** Assembly diagrams are described in detail in the graphic materials of Part 1 of the SB.

Step 1 Installation of instrument console back to Fuselage

1.1 Install instrument console back to Fuselage.

1.1 Restore connection of Yellow wire of OVP (See pic.3.10.1).

- **Caution:** Connection of Yellow wire of OVP module which was cutted on step 3.7 must be restored (See pic.3.10.1).
- **Note:** Use crimping tool from chapter 2.4.4, use Socket isol. (See table 1 Pos.15)


1.3 Connect all connectors disassembled on step 3.7.

1.4 Screw 8 pcs screws AN526-1032R10 (See pic.3.8). Picture is describing left side, for right side is mirrored.

1.5 Install Hatch. Screw AN526-832R6 -5 pcs (See pic.3.8).

1.6 Assemble upper attachment points of instrument console. Screw Self-locking nuts M5 – 2pcs with washers DIN 9021. Location is shown on pic.3.9.1 and 3.9.2.

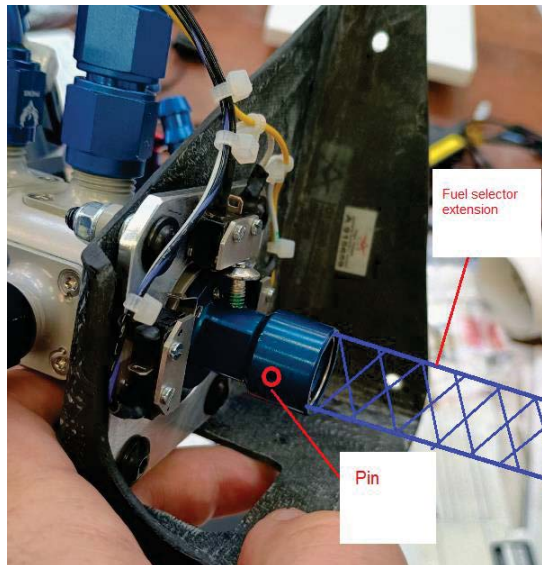
- **Note:** Lock nut M5 DIN 985 should be changed with a new one while assembling.
- **Note:** In older configuration of F2-LSA upper attachment points are differ (See Pic.3.9.3). To mount upper attachment points of instrument console the 3 screws M4x12 DIN 7380 should be Screwed.

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- 1.7 Install Circuit breakers on upper panel (See pic. 3.7).
- 1.8 Install Garmin devices specified by the aircraft specification, connect all connectors (See pic.3.6).
- 1.9 Install Displays GDU460 left and right, connect all connectors (See Pic.3.5).

Step 2 Installation of Lower section panel

- 2.1 Connect Fuel selector extension from side of selector valve directly to Connection flange ECA1#2 using pin removed on step 4.7 (pos.36 Pic.3.16). Scheme of installation is on pic.3.27




Pic.3.27 Fuel selector extension installation

- 2.2 Connect electric connections of devices installed on Lower section panel.
- 2.2 Assemble Heat Grip. Screw Knurled nut (See pic.3.4).
- 2.3 Screw 4 pcs screws AN526-832R8 with polyamide washers (See pic.3.4).
- 2.2 Install Fuel selector handle. Screw 1 pcs screw M3x15 (See Pic.3.28).



Pic. 3.28 Fuel selector handle intallation

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Step 3 Installation of Armrest

3.1 Install armrest on the Tunnel and Connect the Jack connectors (See Pic.3.3).

3.2 Assemble the throttle grip (See Pic.3.2).

- **Note:** Lock nut M3 DIN 985 should be changed with a new one while assembling throttle grip.

3.3 Screw bolts AN526-832R6 -6pcs and Knob ball – 1pcs (See Pic.3.1).

- **Note:** Use Loctite 648 for the Knob ball.

Step 4 Fuel tank timer settings

Setup of Fuel Tank reminder:

A reminder for switching fuel tanks. The reminder message repeats at the specified interval after the beginning of each trip.

Changing Alarm settings (PFD Normal operational mode):


- 1) Press the **MENU** key twice to display the Main Menu (See Pic.3.29);
- 2) Tap '**Setup**' (See Pic.3.29);
- 3) Tap '**Alarms**' (See Pic.3.30);
- 4) In area of '**Fuel Tank Reminder**':
 - 4.1) Tap on right dropdown content menu and chose '**Time**';
 - 4.2) Set time in left arrowkey's menu to '**30:00**'
- 5) Press the **BACK** key once to came back to **Setup menu**

Changing Sound settings (PFD Normal operational mode):

- 6) Tap '**Sound**';
- 7) Scroll down to '**Message Tone**' menu:
 - 7.1) Tap on dropdown content menu and chose '**Enabled**' (See Pic.3.32);
 - 7.2) Set Message Tone Volume in left arrowkey's menu to '**60%**' (See Pic.3.33);
8. Press the **BACK** key three times to came back to Normal operational mode.



Pic.3.29 Main menu


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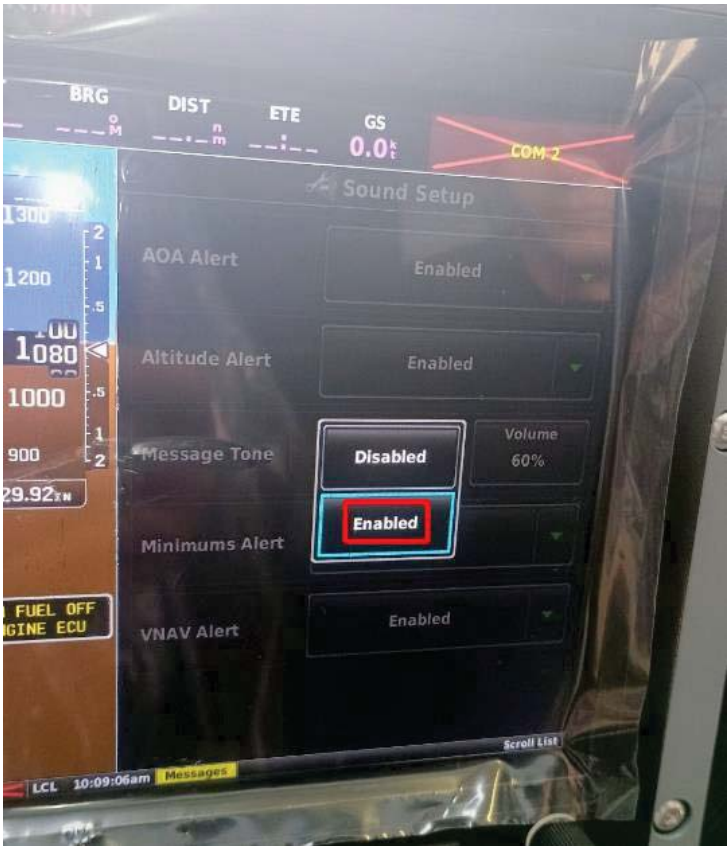


Pic.3.30 Setup menu

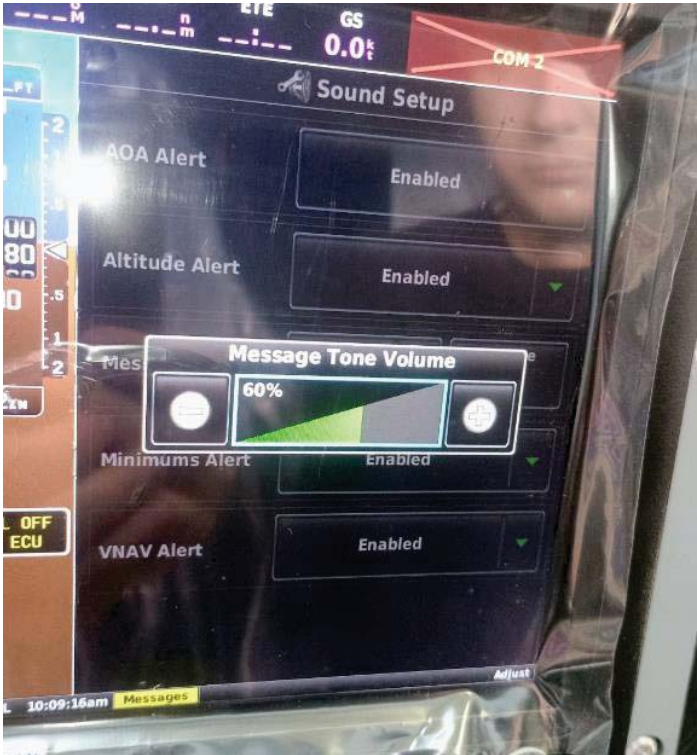


Pic.3.31 Alarms Setup


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Pic.3.32 Sound Setup



Pic.3.33 Message Tone Volume

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3.4 Documentation

Conduct of this SB must be logged in the aircraft log book with date and signature of the responsible Person conducting the SB. National regulations have to be considered.

4 Appendix


4.1 Changes to Previous Revision

4.1.1 Chapter 3.3 Part 3 Step 4 Fuel tank timer settings updated. Steps changed. Pictures added.

4.2 Feedback Template

Use the subsequent feedback template to report completion to Flight Design.

If this SB was completed in accordance with the previous revision and the feedback template was completed, then filling out a new feedback template is not required.

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This form has to be used to coordinate with Flight Design the required spare parts and to communicate the completion of the SB listed in the header of this page.

Submission can be done by mail, Fax or as scanned copy by e-mail to Flight Design GmbH (see header of this page) or to your national Flight Design Distributor who will forward the information for you.

Information to obtain spare parts

Aircraft Type: F2

Model: F2-LSA

Serial Number: _____

Aircraft Owner, Name and Address: _____

Fuel selector valve has been replaced Yes ☐ No ☐

Fuel tank reminder has been set Yes ☐ No ☐

Confirmation of Completion

Conduct of this SB has been done at the following workshop:

Responsible Mechanic:

Date: _____ Location: _____ Signature: _____

▲ **Warning:** As long as the form has not been submitted to Flight Design, this SB is considered not complied-with for the respective aircraft.

- **Note:** If this SB was completed in accordance with the previous revision and the feedback template was completed, then filling out a new feedback template is not required.