		Doc. No.: MD10-WOI-28-002
Type: JS-MD Single	Subject: Work Instruction	ATA: 28
Model/s: JS-MD 3	Title: Jet Fuel Tanks Volume Upgrade	Rev.: 00

Title: Jet Fuel Tanks Volume Upgrade
Work Instruction

1 Document Management

1.1 List of Revisions

Rev.	Date	Description	Author	Affected Sections / Pages
00	03.05.2023	Initial Issue	B. Wenhold	all

Unless shown impracticable due to the scope of the revision, the changes due to the latest revision are marked by a vertical line at the right page margin.

1.2 List of Validity


Rev.	Valid for / Restrictions	Type Def. Reference
00	JS-MD Single, Model JS-MD 3	EASA.A.616

1.3 Document Acceptance

A **CVE** independently from his area of expertise or a second **DE** checks the form and content of the document according to section 1.1 and 1.2 and correctness and completeness of the content. The **CVE** approves the document.

	Function	Digital Signature <i>(includes Date and Name)</i>
Prepared	DE	
Checked	DE / CVE	
Approved	CVE	

Note: If no digital signature is used, the name and the date must be indicated in the digital signature box.


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3 Summary

This document contains a list of all steps necessary to complete the described actions of the Service Bulletin SB-MD10-013.

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4 Work Instructions

Material Required:


- JS-MD 3 Fuel Tank Top – Part No: 234 23 007 02
- JS-MD 3 Fuel Tank Bottom – Part No: 234 23 009 02
- JS-MD 3 Fuel Pump Bracket Strap – Part No: 234 23 033 03
- JS-MD 3 Poly-Propylene Top Tank Vent Tube 2, V2 – Part No: 234 23 063 01
- JS-MD 3 Poly-Propylene Top Tank Drain Tube 4D, V2 – Part No: 234 23 068 01
- JS-MD 3 Poly-Propylene Main Tank Connection Tube 2 4D – Part No: 234 23 069 01
- JS-MD 3 Fuel Pump Bracket Strap FP – Part No: 234 23 082 00
- Jet Fuel PCB – Part No: 234 19 008 02

Tools Required:

- 9/16-inch Spanner
- 7/8-inch Spanner
- 5 mm Allen key
- 3 mm Allen key
- 2.5 mm Allen key

Exchange of Jet Fuel Tanks:

1. Remove the Main Doors, Front Door Assembly, Engine Box and ECU as described in the JS-MD 3 Jet Sustainer AMM Supplement, see Ref. /1/.
2. Drain ALL fuel from the tanks by first pumping out the fuel using the defueling system installed in the jet box. To ensure all the remainder of the fuel is drained, open the fuel drain in the wheel box (no. 1 in Figure 1) and lift the tail of the glider into the flying position.
3. Remove the Fuel Line Attachment bracket by unscrewing the fuel lines at position 2 as shown in Figure 1.

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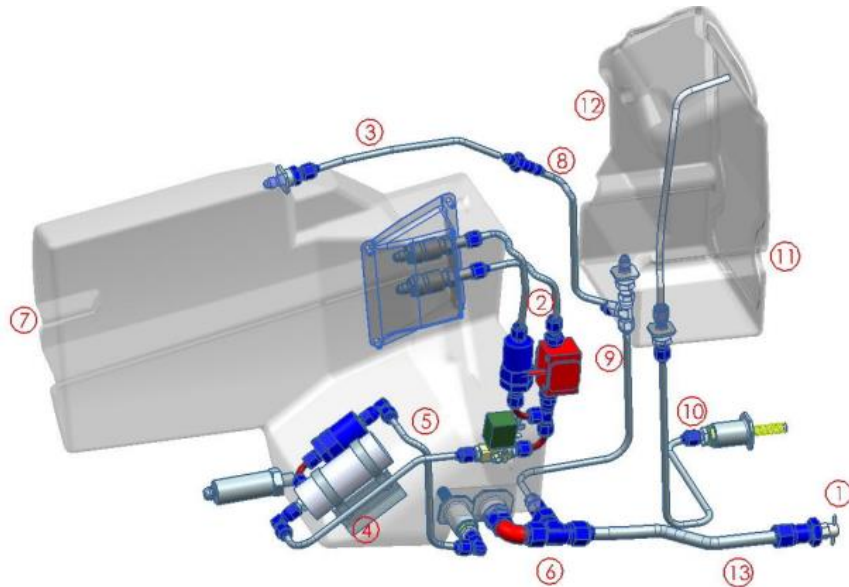



Figure 1: Removal of Fuel Tanks

No.	Description	No.	Description
1	Main Drain Valve	8	Main Tank Connecting Tube 2
2	Fuel Attachment Bracket Tube	9	Top Tank Drain Tube
3	Main Tank Connecting Tube 1	10	Top Tank Vent Tube 2
4	Pump Outlet Tube	11	Top Fuel Tank
5	Fuel Pickup Tube	12	Top Tank Assembly
6	Drain Outlet	13	Main Drain Tube
7	Bottom Tank Assembly		

4. Remove the main tank connecting tube 1 (no. 3).
5. Remove the fuel line connecting the fuel pump to the emergency fuel shutoff (no. 4).
6. Remove the fuel line connecting the filter to the fuel pickup point (no. 5).
7. Unscrew the fuel drain tube (no.13).
8. Unscrew the bolt holding the bottom tank in place (no. 7) and slide the tank backwards approx. 8 mm to remove through the engine bay. (Rotate the tank clockwise while removing it in order to fit through the engine bay).
9. Remove the fuel line connecting the top tank with the vent line for the bottom tank (no. 8).
10. Remove the fuel line connecting the top tank to the drain tube (no. 9).
11. Remove the vent tube that connects the top tank with the vent in the wheel box (no 10).
12. Remove the two M5 bolts that hold the bottom of the top tank in place (no. 11).
13. Remove the M5 bolt that holds the top of the top tank in place and remove the top tank by rotating the bottom out first (no. 12).
14. The entire drain tube assembly can now be removed if required.

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15. Remove the tanks.

16. Installation is the reverse of removal.

17. Test de-/refuelling and perform a ground test run of the jet engine according to the JS-MD 3 Jet Sustainer AMM Supplement /1/.

5 References

/1/ MD10-AMM-00-002 JS-MD 3 Jet Sustainer AMM Supplement

6 Appendix

None.