

Optional Service Bulletin SB-MD20-001

1 Technical Details

1.A Category

Optional

1.B Subject

LS8 Jet Sustainer Installation (STC)

Jet System integration includes the structure modifications and propulsion system integration.
(for this modification it is mandatory to include **1. Access Cover** integration)

The STC include two modifications of the sailplane which can be handled also as stand-alone modification:

1. **Access Cover** (optional stand-alone modification) integration (as stand-alone option for sailplanes without jet system integration) to allow access to inner water ballast tanks and sealing components between inner and outer water ballast tank in the wings.
2. **Water Ports** (optional stand-alone modification) integration (as stand-alone option for sailplanes without jet system integration) to allow easy ballast water filling in the wing tanks on top of the wings. An additional AFM supplement for this procedure is issued.

1.C Affected

Type: LS8

Models: LS8-a, LS8-18

SNs: all

1.D Reason

Retrofitting of the pure glider DG AVIATION GmbH LS 8-a and LS8-18 to a self-sustaining powered sailplane. Installation of an engine system with all its airframe-related components.

1.E Compliance

Compliance with this Service Bulletin is mandatory before operation of modified LS8 glider. All actions must be accomplished and released to service by appropriately approved personnel or organisations.

1.F References

Jet System Integration

1. EASA SUPPLEMENTAL TYPE CERTIFICATE 10090600
2. MD20-WOI-00-002-R01 Jet System Integration
3. Aircraft Maintenance Manual Supplement LS8 Jet, Doc. No.: MD20-AMM-00-001, issue 01
4. Aircraft Flight Manual Supplement LS8 Jet, Doc. No.: MD20-AFM-00-001, issue 01

Access Cover

5. EASA SUPPLEMENTAL TYPE CERTIFICATE 10090600
6. MD20-DWG-57-001-R00 Access Hatch Integration
7. MD20-DWG-57-002-R00 Access Hatch
8. MD20-DWG-57-003-R00 Access Hatch Frame
9. MD20-DWG-57-004-R00 Access Hatch Gasket

Water Ports

10. EASA SUPPLEMENTAL TYPE CERTIFICATE 10090600
11. Aircraft Flight Manual Supplement Water Ports, Doc. No.: MD20-AFM-00-002, issue 01
12. MD20-DWG-57-009-R00 Water Port Integration

1.G Mass and CG

A new weight and balance report is required, and weighing must be performed for STC parts:

- Jet System Integration
- Access Cover Integration

1.H Publications

1. -Aircraft Maintenance Manual Supplement LS8 Jet, Doc. No.: MD20-AMM-00-001, issue 01
2. -Aircraft Flight Manual Supplement LS8 Jet, Doc. No.: MD20-AFM-00-001, issue 01
3. -Aircraft Flight Manual Supplement Water Ports, Doc. No.: MD20-AFM-00-002, issue 01

1.I Interchangeability and Mixability of Parts

none

1.J Approval

The technical content of this document is approved under the authority of the DOA ref. EASA.21J.603.

1.K Appendices

N/A

2 Planning Information

Should additional information be required, indicate the S/N and operating time of your aircraft in your inquiry.

2.A Material

All parts, consumables, and materials required are listed in Ref. 2. Parts can only be ordered directly from M&D Flugzeugbau using the following contact details:

- Email: cao@md-flugzeugbau.de
- Phone: +49 (0) 4465 9787-11

2.B Special Tools

As specified in WOI (Ref. 2)

2.C Manpower

Implementation of this service bulletin may also be done by approved maintenance organisations having an explicit authorization by M&D Flugzeugbau GmbH & Co. KG.

3 Accomplishment Instructions

3.A Preparation

1. **Jet System** Follow all procedures specified in Ref. 2
2. **Access Cover** Follow all procedures specified in Ref.6-9.
3. **Water Ports** Follow all procedures specified in Ref.12

3.B Inspection Modification

Follow all procedures specified in Ref. 2

3.C Close up

Remove all tools and materials. Make sure the work areas are clean.

3.D Acceptance Tests and Check-Out

Follow all test procedures specified in Ref. 2

3.E Release to Service

All required tasks must be released by certifying staff in accordance with Commission Regulation 1321/2014 Part ML / Part 66 and recorded in the maintenance record as well as in the logbook of the aircraft. In countries outside of the scope of Commission Regulation 1321/2014, the corresponding rules for powered sailplanes of the national aviation authority shall be applied.

4 Approval Signatures

Remark: With his signature the **HOA** approves the Service Bulletin when the change is approved internally or by the Agency and in case of no change without previous approval.

Furthermore, the signature of the **HOA** confirms that the technical content has been checked.

	Approved by ☐ EASA / ☒ internally / ☐ n/a
(Head of Office of Airworthiness)	
Initial Issue	