

Mandatory Service Bulletin SB-MD11-005

1 Technical Details

1.A Category

Mandatory

1.B Subject

Comprehensive update of the JS-MD 3 RES propulsion and cooling system, including:

- Electrical grounding and EMI improvements,
- DCU and RFU firmware updates,
- Installation of a circuit breaker for manual motor controller shutdown,
- Replacement of the coolant expansion cylinder with a translucent reservoir, and
- Implementation of the updated two-door configuration for the RES compartment.

1.C Affected

Type: JS-MD Single
Model: JS-MD 3 RES
Serial numbers: All JS-MD 3 RES aircraft

1.D Reason

Occurrences reported by operators with the electric propulsion system installed temporarily prohibited the use of the RES electric propulsion system due to communication failures between the DCU and motor controller, EMI susceptibility, and watchdog resets.

Following a detailed investigation and testing by SOLO Aircraft Engines and M&D Flugzeugbau, SOLO issued five service bulletins (ref. /1/ - /5/) for the 8000/400 system to prevent recurrence of the reported issues and to enhance overall system reliability.

This Service Bulletin introduces mandatory corrective actions to restore full system functionality and enhance reliability, and maintainability.

Additionally, the modification of the liquid-cooling system with a translucent reservoir allows visual inspection of coolant levels, and the revised RES door configuration improves cooling efficiency.

1.E Compliance

Compliance with this Service Bulletin is mandatory before further operation of the RES propulsion system. All actions must be accomplished and released to service by appropriately approved personnel or organisations.

1.F References

- /1/ SOLO Service Bulletin E.237 – 3
- /2/ SOLO Service Bulletin E.237 – 4
- /3/ SOLO Service Bulletin E.237 – 5
- /4/ SOLO Service Bulletin E.237 – 6
- /5/ SOLO Service Bulletin E.237 – 7
- /6/ MD11-WOI-71-003 R03 Work Instructions for Reservoir Upgrade
- /7/ MD11-WOI-71-004 R05 Work Instructions for RES Reactivation
- /8/ MD11-AMM-00-001 I05 R00 JS-MD 3 RES Aircraft Maintenance Manual
- /9/ MD11-AMM-00-002 I05 R00 JS-MD 3 RES Aircraft Maintenance Manual Supplement
- /10/ MD11-AFM-00-002 I05 R00 JS-MD 3 RES Aircraft Flight Manual Supplement
- /11/ MD11-AFM-00-001 I01 R02 JS-MD 3 RES Aircraft Flight Manual
- /12/ MD11-WOI-71-005 R02 Work Instructions for RES Doors and Ground Test

1.G Mass and CG

Perform a new weight and balance report and equipment list.

1.H Publications

New issues of the AFM, AFM Supplement, AMM and AMM Supplement are released. Replacing the previous revisions is mandatory. The new revisions include updated pre-flight inspection procedures, new electrical schematics, and cooling-system information (see ref. /8/, /9/, /10/ and /11/).

1.I Interchangeability and Mixability of Parts

N/A

1.J Approval

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

1.K Appendices

None.

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. /6/, /7/ and /12/. Parts can be 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 references /6/, /7/, /8/ and /12/.

2.C Manpower

This service bulletin may only be implemented and signed off by

- M&D Flugzeugbau GmbH & Co. KG
- DG Aviation GmbH

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

3 Accomplishment Instructions

3.A Preparation

Follow all preparation procedures specified in references /6/, /7/ and /12/..

3.B Modification Instructions

All modification instructions must be carried out in accordance with the instructions outlined in references /6/ and /7/.

3.C Close up

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

3.D Acceptance Tests and Check-Out

Perform the Ground Test as specified in reference /7/ and /12/.

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/her 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.

(Head of Office of Airworthiness)	Approved by <input checked="" type="checkbox"/> EASA / <input type="checkbox"/> internally / <input type="checkbox"/> n/a Date: 14.04.2026 under approval No.: 10089677
Initial Issue	