		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

Title:	Work Instructions for EGT Sensor Location Correction
	Service Bulletin

1 Document Management

1.1 List of Revisions

Rev.	Date	Description	Author	Affected Sections / Pages
00	07.07.2020	Initial Issue	Philip Goralski	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

The **CVE** checks the form and content of the document according to section 1.1 and 1.2 and correctness and completeness of the content. The **HOA** approves the document.

	Name	Function	Signature
Prepared	Philip Goralski	DE	
Checked	Sören Pedersen	CVE	
Approved	Sören Pedersen	HOA	

		Doc. No.: MD10-WOI-77-001
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2 Contents

1	Document Management	1
1.1	List of Revisions	1
1.2	List of Validity	1
1.3	Document Acceptance	1
2	Contents	2
3	Summary	2
4	Planning Information	2
4.1	Material	2
4.2	Special Tools	2
5	Work Instructions	3
5.1	Removing the pylon and engine shroud	4
5.2	Disassembly Nozzle	4
5.3	Reorientation and mounting of the nozzles	5
5.4	Relocating the EGT sensor	5
5.5	Attaching the pylon and engine shroud	6
5.6	ECU Configuration Update	6
5.7	Engine Test Run	6
5.8	Logbook Entry	7
6	References	7

3 Summary

This document contains all necessary steps to complete the content of the Service Bulletin SB-MD10-001.


4 Planning Information

4.1 Material

- Loctite 243
- Cable ties

4.2 Special Tools

- Calibrated Torque Wrench capable of 1.3Nm
- Windows computer with Turbine Tool
- Connector Cable

		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

5 Work Instructions

The engine assembly is illustrated in Figure 5-1: Engine Assembly.

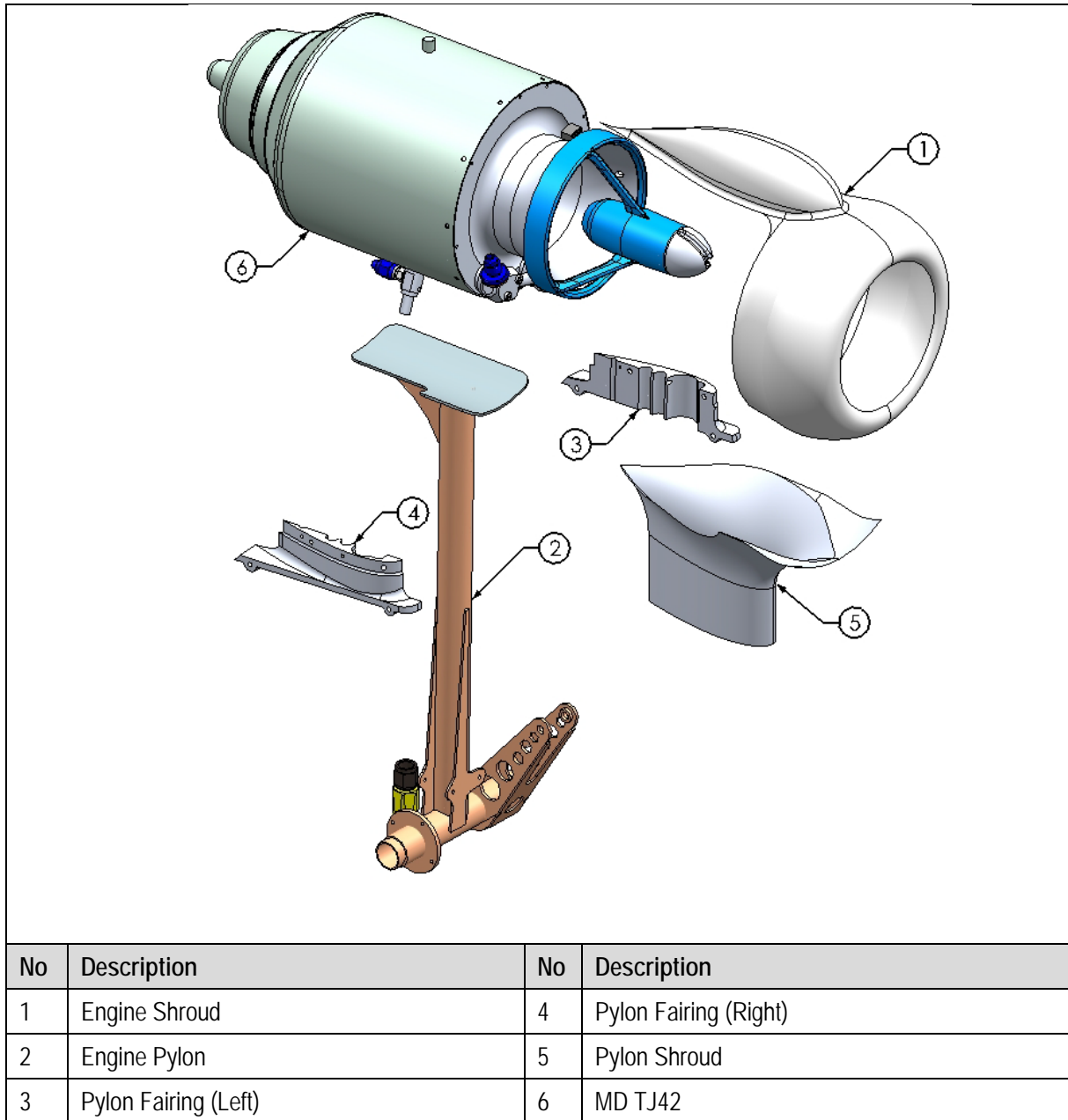



Figure 5-1: Engine Assembly

1. Turn the system on by switching the main switch on the JDU to "On"
2. Extend the Engine
3. Turn off the system and disconnect the battery

		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

CAUTION: A small voltage is still being drawn by the ECU even when the JDU is turned off. If the battery is not disconnected, and the exposed wires touch, a short circuit might result and damage the ECU.

5.1 Removing the pylon and engine shroud

1. Remove the Engine Pylon Shroud Assembly by removing the 4 M3AB5 screws and two expanding rivets.
2. Remove the shroud by sliding it forward over the pylon.
3. Loosen the screws at the engine, clamping the Engine Shroud (see Position 2 in Figure 5-2), and remove the shroud by sliding it forward.

5.2 Disassembly Nozzle

1. Loosen the clamping nut of the EGT Sensors at the Nozzle assembly and pull out the Sensor tip.
2. Remove all 12 pcs. M3x10 cap screws DIN 912 (04-682) and 12 pcs. washers at Position 1 in Figure 5-2 and remove the nozzle.

CAUTION: Only loosen the screw which hold the nozzle and not the screws (4 pcs.), which are in direct contact with the housing

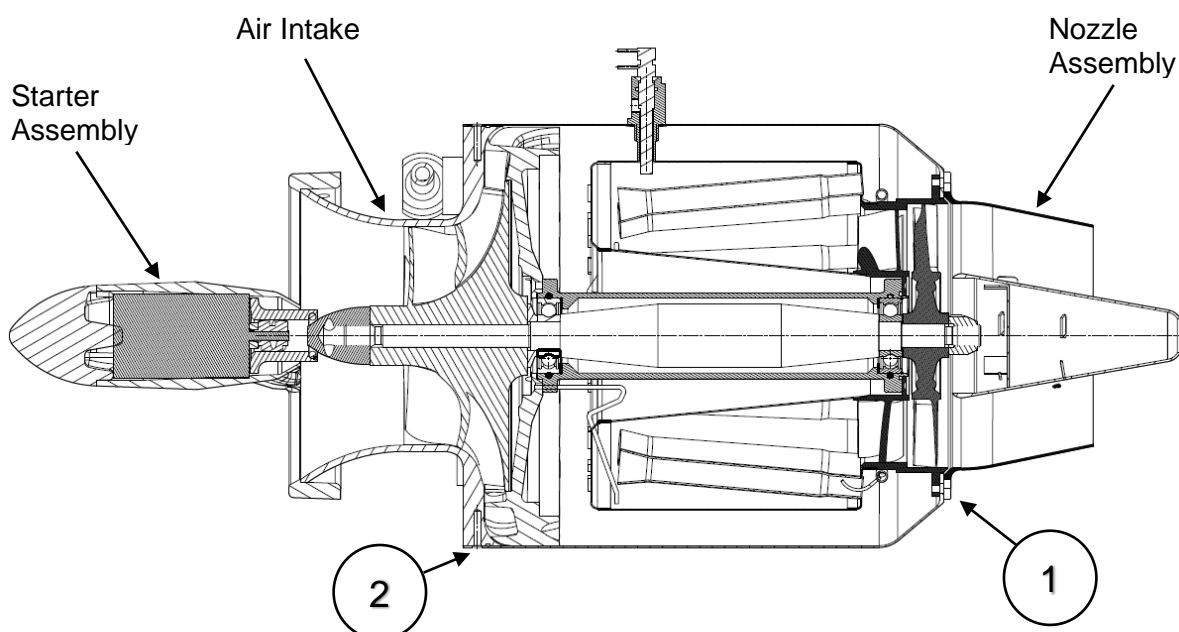



Figure 5-2: Jet Engine Assembly; Front cover not depicted

		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

5.3 Reorientation and mounting of the nozzles


1. The nozzle is turned by 90° to the left, when looking from the back to the front (The EGT Sensor Retainer is pointing towards the sky respectively 12 o'clock position).
2. Screw the nozzle with 12 pcs. M3x10 cap screws DIN 912 (04-682) and 12 pcs. washers crosswise with the 1.3 Nm torque. Use Loctite 243 to secure the screws.

5.4 Relocating the EGT sensor

1. Loosen the EGT Sensor support bracket at Position 2 at Figure 5-2.
2. If needed, remove the Cables of the EGT sensor from the Sensorboard.
3. Plug the sensor into the EGT sensor retainer at the new position and tighten the nut.
4. By bending, the sensor wire will be routed along the housing, where later the pylon of the engine shroud is located, see Figure 5-3.



Figure 5-3: Sensor wire routing

		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

5. Fix the EGT sensor cable with the cable harness using cable ties.
6. Connect EGT Sensor wire to the Sensorboard acc. to Figure 5-4, if disconnected before.

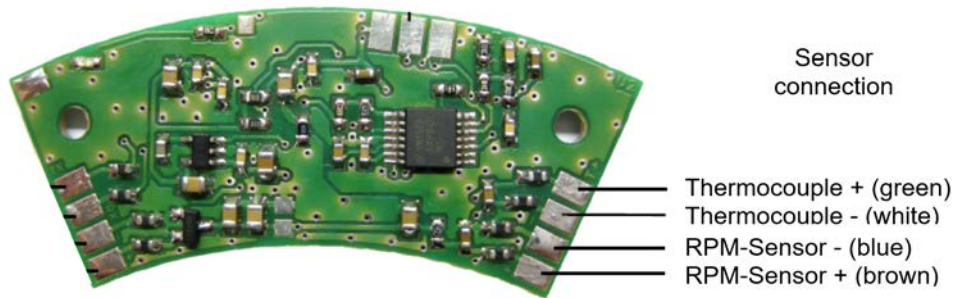


Figure 5-4: Sensor connection on sensor board

5.5 Attaching the pylon and engine shroud


1. Attach the engine shroud to the engine in the original position. Assure, that the EGT Sensor wire is located under the pylon.
2. Attach the pylon shroud to its original position and connect both shrouds with the two expanding rivets.
3. Screw in all screws of the pylon shroud without tightening.
4. Tighten all screw of the engine shroud with 1.3Nm of torque (see Position 2 in Figure 5-2). Use Loctite 243.
5. Tighten the pylon shroud screws.

5.6 ECU Configuration Update

Follow the instructions according to Chapter 8 of the JS-MD 3 Jet Sustainer AMM Supplement, see Ref /3/, to install the turbine tool and update the ECU configuration.

5.7 Engine Test Run

Perform a Ground Start of the Engine according to Ref /2/.

		Doc. No.: MD10-WOI-77-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 77-20
Model/s: JS-MD 3	Title: Work Instructions for EGT Sensor Location Correction	Rev.: 00

5.8 Logbook Entry

Record the execution of this Service Bulletin in the aircraft logbook and the engine logbook. Use Service Letter for Engine logbook entry instruction, see Ref /4/, as guidance for the engine logbook.

6 References

- /1/ SB-MD10-001
- /2/ MD10-AFM-00-002 JS-MD 4 Jet Sustainer Flight Manual Supplement
- /3/ MD10-AMM-00-002 JS-MD 3 Jet Sustainer AMM Supplement
- /4/ SL-MD02-004 Engine logbook entry instruction