

SUPPLEMENT No. 4A

AMU1.XX ACCELERATION MONITORING UNIT

This Supplement must be attached to the Z 143 L – Z 143 LSi Airplane Maintenance Manual, DOC. No. 005.022.2 in Section 95, when the AMU1.XX Acceleration Monitoring Unit is installed according to Drwg. No. L 143.8588.

The information contained herein supplements or supersedes the information in the Z 143 L - Z 143 LSi Airplane Maintenance Manual (DOC. No. Si005.022.2).

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EFFECTIVITY: ALL

95-40-00

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AMU1.XX ACCELERATION MONITORING UNIT

DESCRIPTION AND FUNCTION

AMU1.01 Acceleration Monitoring Unit measures and records vertical acceleration data during flight, flight duration (between lift off and touch down) and number of takeoffs and landings.

AMU1.01 Acceleration Monitoring Unit is fixed on a bracket on upper flange of wing main spar in the space under right hand pilot seat. Located on instrument housing is a connector for connection to the airplane network, indication LED diode and for communication with computer.

Initialization of acceleration monitoring unit starts automatically after main switch on. Operation of the unit is indicated by LED diode located on central panel located between pilot seats.

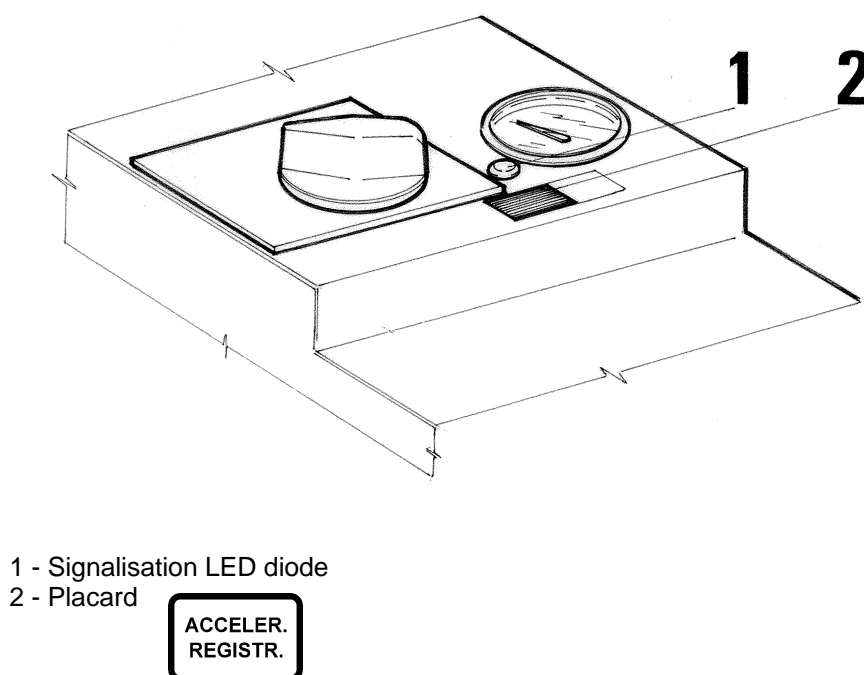


Fig. 1 Location of registration accelerometer on airplane

TECHNICAL PARAMETERS:

TECHNICAL DATA:

Mass:	max. 130 g
Correct operation:	1 LED diode light pulse in duration of 1 s and period of 2 s.
Operation failure:	LED diode is off or continuously on
Data memory failure	1 LED diode light pulse in duration of 0.125 s and period of 2 s.
Acceleration transducer failure	2 LED diode light pulses in duration of 0.125 s and period of 2 s.
Acceleration value	Range -10.00 g to +10.00 g
	Resolution: 0.01 g
Flight time:	Resolution: 1 s
Number of landings:	Resolution: 1
Matrix of acceleration level crossings	Number of records 82 x 82
	Number of level crossings: range 0 through 16 777 215
	resolution 1
Table of linear acceleration crossings	Number of records: 1,000
Electrical consumption:	max. 3.5 W
Fire resistance:	self-extinguishing material
Operating temperature:	-40°C to +50°C
Altitude:	up to 7,260 m (25,000 ft)
Lifetime	10,000 flight hours

DATA ACQUISITION - BY USER

According to the "Methods of Data Processing Procedure for AMU1.01 acceleration monitoring unit".

DISASSEMBLY

1. Disconnect the connector on registration accelerometer.
2. Disassembly the registration accelerometer from the bracket.

ASSEMBLY

1. Screw-on the registration accelerometer on bracket.
2. Connect the connector on registration accelerometer.

CAUTION:

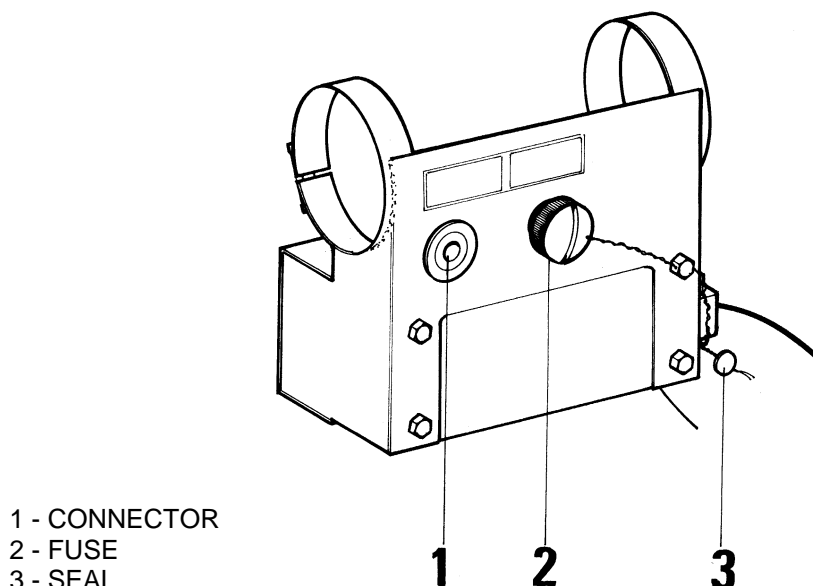
IF CORRECT FUNCTION OF ACCELERATION MONITORING UNIT IS NOT INDICATED BY LED DIODE ON CENTRAL CONTROL, DISASSEMBLY THE ACCELERATION MONITORING UNIT FROM AIRPLANE AND SENT TO THE MANUFACTURER TO REPAIR.

EFFECTIVITY: ALL

MAINTENANCE AND REPAIR

No maintenance is required for the AMU1.XX Acceleration Registration Unit during its whole life time.

Only aircraft manufacturer or authorized service organization perform pertinent repairs of nonfunctional AMU1.XX Acceleration Registration Unit according to Instruction for Maintenance and Repairs of the AMU1.01 Acceleration Registration Unit.



Obr. 2 Location the connector for data acquisition in PC

INSPECTIONS

1. Check seal of AMU1.01 acceleration monitoring unit and microswitch lever.

CAUTION:

WHEN THE SEAL IS BROKEN, INFORM THE AIRCRAFT MANUFACTURER OR AUTHORIZED SERVICE CENTER.

2. Check of stall speed warning signal adjustment.

CAUTION:

CHECK OF STALL SPEED WARNING SIGNAL ADJUSTMENT IS ACCOMPLISHED BY AUTHORIZED SERVICE CENTER ALWAYS AFTER WING INSTALLATON ON THE AIRPLANE.

INSPECTION	
100	year
X	
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EFFECTIVITY: ALL

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