

## AG-MI-2013-05-C-EN – Manifold Pressure Gauge

Category **C**

### EFFECTIVE DATE

09.07.2013

### SUPERSEDES/REPLACES

N/A (initial issue)

### APPLICABILITY

All with IVO-Propeller equipped MTO, Calidus and Cavalon

### COMPLIANCE

Prior to next flight.

### BACKGROUND

Within a final inspection after a retrofit of a gyroplane with an IVO variable pitch propeller a prohibited configuration was noticeable.

### RISK OF NEGLECT

Failure to comply with this instruction/information will result in

- possible damage to the aircraft
- loss of related warranty

### SCOPE OF WORK

Inspect the configuration state of 'Manifold Pressure Gauge' and retrofit with component, if necessary. When gyroplane is equipped with IVO variable pitch propeller, inspect whether a manifold pressure gauge is also installed.

### AFFECTED AREAS

Cockpit instrumentation

### SPECIAL TOOLS & CONSUMABLE MATERIALS

S.VB3006	Screw Locking Varnish
S.VB6021	Cable Tie

### PARTS

S.EL44	Installation Kit Gauge Manifold Pressure 912
S.EL43	Installation Kit Gauge Manifold Pressure 914

### LABOR AND REQUIREMENTS

To inspect 0,1 h

To accomplish 1,5 h

Task may only be performed by AutoGyro or AutoGyro-Maintenance Partners!

### SUPPORT POLICY

N/A

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31137 Hildesheim

## REFERENCES

52-00-00 4-1 Manufacturer Maintenance Manual (MMM) in latest revision (Cavalon & Calidus)

Installation Manual Rotax 912 / 914 in latest revision

Pilots Operating Handbook in latest revision

## DOCUMENTATION

The accomplishment of this Manufacturer Information, or the decision of its rejection, must be properly documented, if such procedure is required by the relevant authority.

## Warnings Caution and Notes

This instruction uses **WARNINGS**, **CAUTIONs** and **NOTEs** in bold italic letters to indicate especially critical and important instructions. The call-outs appear at the top of the Maintenance Job Card if of general nature or applicable for the complete task, or will directly precede the individual Work Step.

The meaning of each call-out is defined below:

***WARNING: A warning means that the neglect of the appropriate procedure or condition could result in personal injury or fatal accidents.***

***CAUTION: A caution means that the neglect of the appropriate procedure or condition could result in damage to or destruction of equipment.***

***NOTE: A note stresses the attention for a special circumstance, which is essential to emphasize.***

## Category Codes

- A** Safety critical - failure to comply may result in a significant reduction of flight safety, injury or death
- B** Important - failure to comply may result in reduced safety margin, injury and/or equipment damage
- C** Beneficial - improves operating behaviour, reliability and/or maintainability

## COMPLIANCE PROCEDURE

## GENERAL, REFERENCES AND REQUIREMENTS

Task may only be performed by AutoGyro or AutoGyro-Maintenance Partners!

Secure gyroplane against unauthorized or unintended operation!

## SPECIAL TOOLS, CONSUMABLE MATERIALS AND PARTS

S.VB3006 Screw Locking Varnish  
S.VB6021 Cable Tie

## PRECAUTIONS AND SAFETY MEASURES

N/A

## PROCEDURES

- 1 Verification that manifold pressure gauge is also with IVO variable pitch propeller installed
- 2 If not installed demount blind cover in cockpit panel
- 3 Connect manifold pressure gauge with the allocated pressure hose (black) and install manifold pressure gauge. Use screw locking varnish!

**NOTE** The prepared cockpit side pressure hose (black) can be found snapped off in the centre panel (MTO). In Calidus and Cavalon the hose is sealed with a blank plug, also to find in the centre panel (see figure 5).

- 4 Connect pressure hose for manifold pressure gauge also on engine side (see figure 4)

**NOTE** The prepared engine side pressure hose (black) can be found snapped off in harness (see figure 3). In Calidus and Cavalon the engine side is already connected, thus step 4 is not required for Calidus and Cavalon.

- 5 Fix manifold pressure hose in required position with cable ties

**NOTE:** If attachment hardware with limited reuseability (wire lock, self-locking nuts, torque bolts, ...) has been removed or altered during removal or disassembly, affected attachment hardware must be replaced.

## PARTS LIST

Fig.	Pos.	Description	PC PIT	Remark
1		Installation Kit Gauge Manifold Pressure 912	L1 S.EL44	-
2		Installation Kit Gauge Manifold Pressure 914	L1 S.EL43	-

ILLUSTRATIONS



Fig. 1 - Manifold Pressure Gauge 912 ULS



Fig. 2 - Manifold Pressure Gauge 914 UL



Fig. 3 – Connecting piece manifold pressure engine side (MTO)



Fig. 4 – Manifold pressure hose connected on engine side



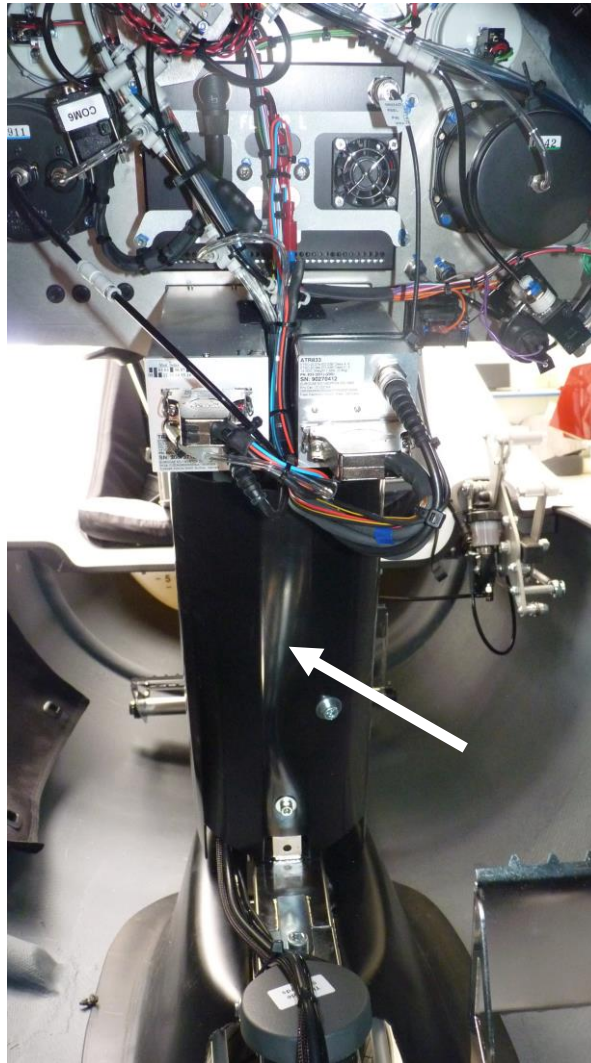


Fig. 5 – Centre panel