

AG-MI-1302-EN – Pre-Rotator Clutch

Category **B**

EFFECTIVE DATE

11.06.2013

SUPERSEDES/REPLACES

N/A (initial issue)

APPLICABILITY

Cavalon Serial Number (Werk-Nr.) V00037 up to V00115

COMPLIANCE

To be performed **before next flight** or **while next maintenance**, whichever occurs first.

BACKGROUND

Within quality checks an incorrectly assembled coupling driver were noticed.

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

Inspection of 'Pre-Rotator Clutch / Pneumatic Clutch III', examination of assembly-caused clearances

AFFECTED AREAS

Pre-Rotator

SPECIAL TOOLS & CONSUMABLE MATERIALS

N/A

PARTS

V.PR09 Pneumatic Clutch III

LABOR AND REQUIREMENTS

To inspect 0,5 h

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

SUPPORT POLICY

Parts f.o.c. (reimbursement upon receipt of affected rubber damper).

REFERENCES

Manufacturer Maintenance Manual (MMM) 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.

APPROVAL

The content of this Manufacturer Information is approved and released by the AutoGyro.

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
- D** Informative

COMPLIANCE PROCEDURE

GENERAL, REFERENCES AND REQUIREMENTS

Task has to be performed in accordance with Manufacturer Maintenance Manual, chapter 63-11-10 6-1 „Inspection: Pre-Rotator Clutch“

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

Secure gyroplane against unauthorized or unintended operation!

Task must be performed in cold engine condition!

SPECIAL TOOLS, CONSUMABLE MATERIALS AND PARTS

N/A

PRECAUTIONS AND SAFETY MEASURES

N/A

PROCEDURES

- 1 Measure clearance (Fig. 1 / B) with feeler gauge. Clearance between clutch lining and clutch plate has to be 1.0 – 1.5 mm.
- 2 Measure clearance (Fig. 1 / C) with feeler gauge. Clearance between inner drive star disc (engine side) and outer drive star claws (clutch side) has to be 1.0 – 1.5 mm.
- 3 If both point 1 and 2 identified clearances are in the required size range, the test has been completed and the gyroplane is approved.
If one or both clearances do not lie in-between the required measures, the clutch has to be removed and the clearance between magnetic hub of the engine and inner drive star disc (engine side) has to be checked → gap must be checked with a feeler gauge 0.05 mm, feeler gauge should not be possible to stuck inside.
- 4 If the clearance is ≥ 0.05 mm, the clutch has to be checked by AutoGyro or an AutoGyro-Maintenance Partner. Inner drive star disc (engine side) has to be demounted and to be checked. The threaded end of the crank shaft must be cleaned. Inner drive star disc (engine side) has to be remounted in accordance with the assembly instructions. The assembly instructions can be sourced via the email address K.Stolz@auto-gyro.com.

PARTS LIST

Fig.	Pos.	Description	PC PIT	Remark
1	1	Pneumatic Clutch III	L1 V.PR09	-

ILLUSTRATIONS

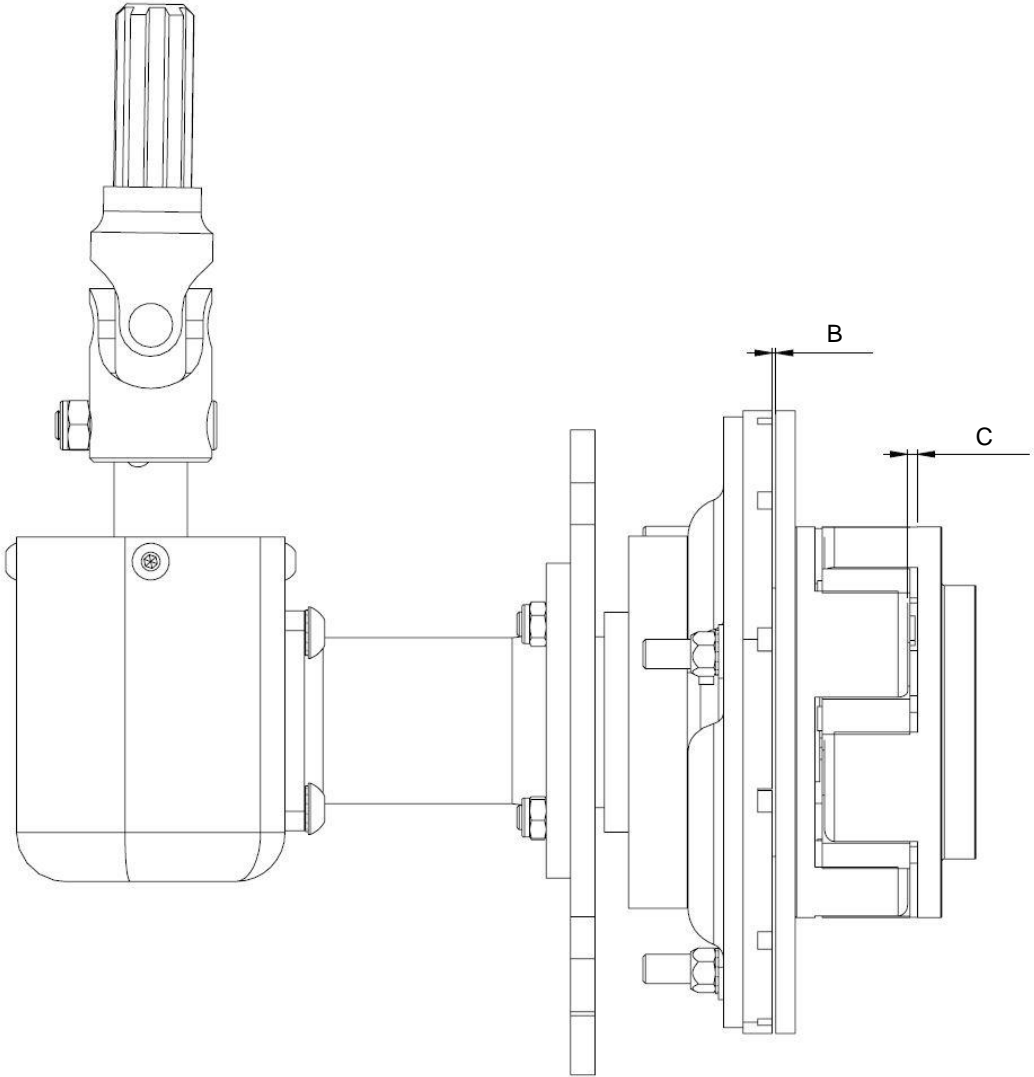


Fig. 1 - Pneumatic Clutch III