

AG-MI-2013-06-B-EN – Pre-Rotator Clutch

Category **B**

EFFECTIVE DATE

09.07.2013

SUPERSEDES/REPLACES

N/A (initial issue)

APPLICABILITY

Calidus Serial Number (Werk-Nr.) C00216 up to C00273

COMPLIANCE

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

BACKGROUND

Within quality checks an incorrectly assembled coupling driver was 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

C.PR10 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 part).

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.

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 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 airworthiness@auto-gyro.com.

PARTS LIST

Fig.	Pos.	Description	PC PIT	Remark
1	1	Pneumatic Clutch III	L1 C.PR10	-

ILLUSTRATIONS

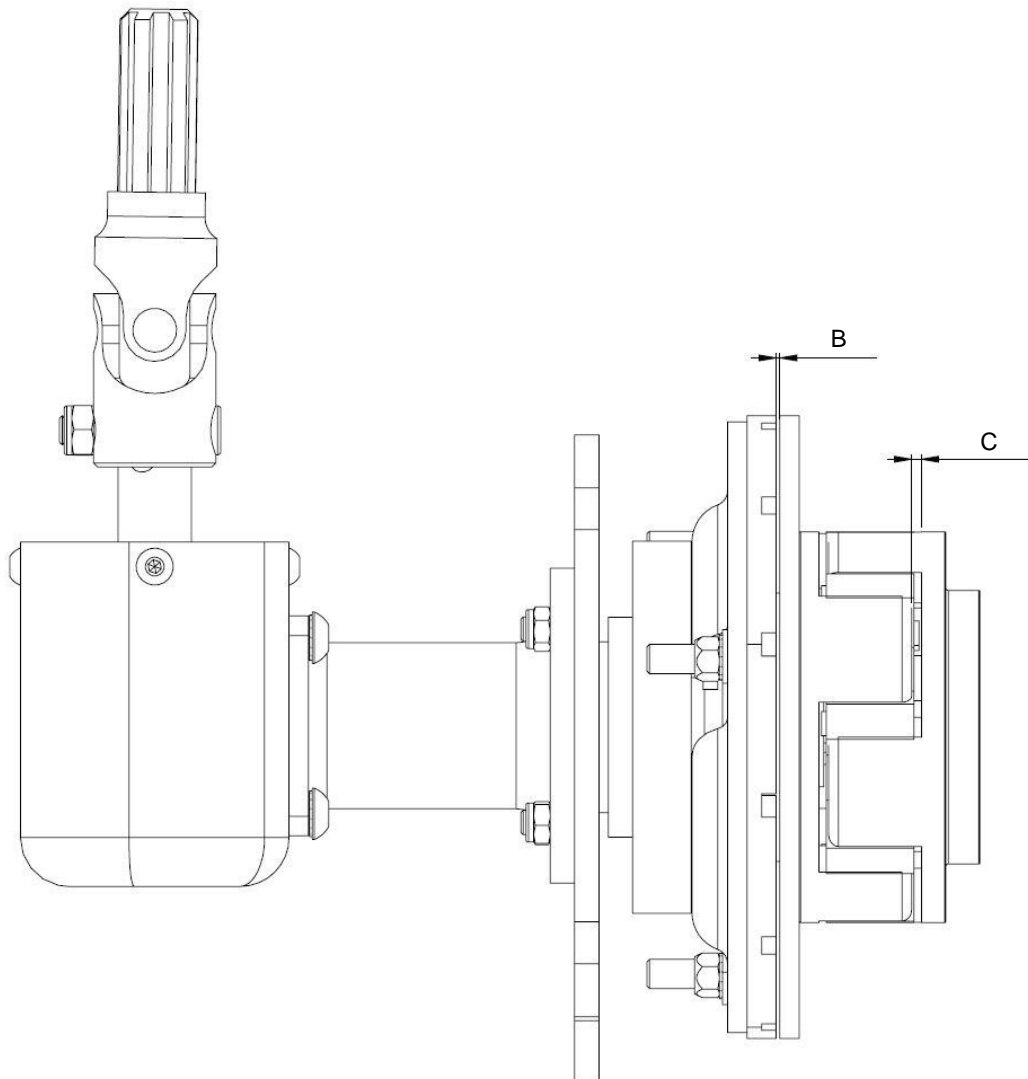


Fig. 1 - Pneumatic Clutch III