Subject : Spindle drive for powerplant extension / retraction

Effectivity : DG-500M

Accomplishment : In case a defective spindle drive needs to be replaced,

Reason : When exchanging the spindle drive the guide rings of the existing extension tube, which is a DG part may be used for the new spindle drive to save costs.
The existing Warner spindle drive is no more available and will be replaced by a newer version.

Instructions :
1. Remove the defective spindle drive. To remove the lower mounting bolt you will need tools as shown in the photo. Ship the complete spindle drive or at least the extension tube 5R20/3 to DG. The guide rings of the extension tube will be used for an exchange spindle drive.
2. .Install the new spindle drive.

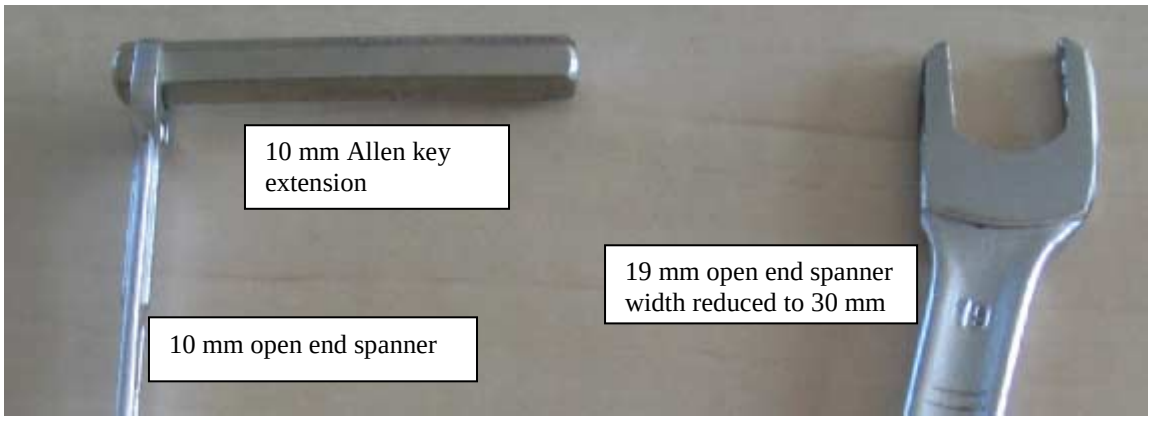
Caution: The spindle drive shouldn't be bent during installation. Otherwise the extension tube will be deformed and the holding brake won't work properly. Adjust the alignment of the mounting bracket if needed.
If the mounting bracket in the fuselage can't be removed (e.g. bolts glued in with resin), an angled hole may be bored at the lower mounting point of the spindle drive and the installation will be accomplished with a bush with a larger diameter instead of 5R25/2.
Determine the angle and report it to DG to enable them to accomplish the modification.

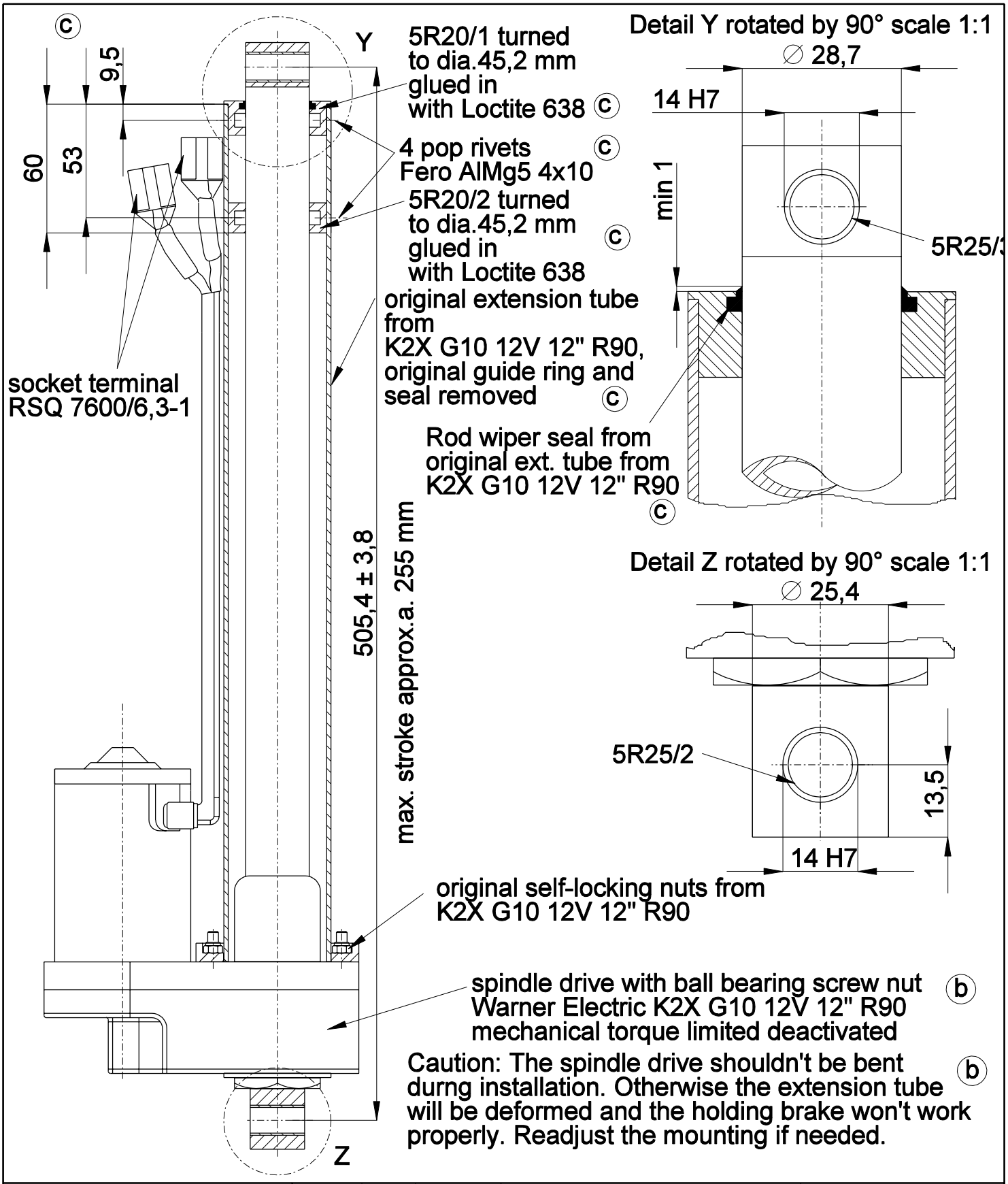
Material : Drawing 5R21 issue c
Spindle drive according to drawing 5R21 issue c, preferably as an exchange part.

Notes and warnings: The braking effect of the new type of spindle drive is not as good as for the initial type. Due to this effect it is possible that after retracting the powerplant via the manual switch the powerplant may come out again a little.
To avoid this effect we recommend that you retract the powerplant via the ignition switch. With this procedure the spindledrive will be braked additionally electrically by short-circuiting.

Bruchsal, date:
January 24. 2012
Revision 1 19.02.2013
Revision 2 01.04.2014

Author: W. Dirks





Toleranzen nach Arbeitsanweisung BA 1

Schweißen nach Arbeitsanweisung SA 1

Ausg.	Änderung	ÄM	Tag	Name
c	original ext. tube		6.02.13	W.Dirks
b	new spindle drive		19.07.12	E. Töws
a	new drawing		20.06.12	E. Töws

	Tag	Name
Gez.	12.07.88	Schicke
Gepr.		
Norm.		

Maßstab 1:2,5 1:1

Maße ohne Toleranz-ang. nach:

Spindle drive DG-500M assembly and installation

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5R21