

Subject: Alternative hydraulic wheel brake system TOST
Applicability: ASW 27 (incl. ASW 27-18 "ASG 29" and ASW 27-18 E "ASG 29 E"); Type-Certificate **EASA.A.220**; all variants; all serial numbers
Classification: Minor Change
Urgency: optional
Reason: Product improvement
Action: Exchange of the following parts of the wheel brake system:

	<i>current series standard</i>	<i>alternative</i>
<i>Master Cylinder</i>	Cleveland 10-20 90° Fitting Parker 4CMTXS (connection between master and wheel brake cylinder)	TOST HBZS f. MIL-H m. NPT, P/N 050305 90° Fitting TOST P/N 058066 (connection between master and wheel brake cylinder)
<i>Wheel Brake Cylinder</i>	Cleveland 30-9	TOST BZT2 5L f. MIL-H m. NPT, P/N 080203

The mounting of master and wheel brake cylinder, hoses, fittings and expansion tank/ventilation stay the same. Also the maintenance and operation is unchanged between the alternative and the current version.

It is also possible to exchange only parts of the wheel brake, means to combine the existing master cylinder with an alternative wheel brake cylinder or vice versa.

Note: It is recommended to use a filling pump or vacuum filling device (e.g. TOST P/N 059300 / 059330) for an easier filling or bleeding.

Exchange or change of the following manual pages:

Maintenance Manual:

Model / Variant	TN	Issue	Page
ASW 27	TN 18	01.02.17	2.7
ASG 29	TN 7	01.02.17	2.13
ASG 29 E	TN 16	01.02.17	2.13

All pages have to be changed as follows:

Add the text „alternatively TOST wheel brake cylinder 080203 and/or TOST master cylinder 050305“ underneath the existing text „Cleveland wheel brake cylinder 30-9 and master cylinder 10-20“. Fill in the TN and issue according to the table above in the field "Revision" in the footer.

Material and Drawings: See Action

Mass and Balance: The change in mass and C. of G. position is negligible.

Notes:


The structural measures must only be accomplished by the manufacturer Alexander Schleicher or by a maintenance organisation according to European Union Commission Regulation (EC) 1321/2014 Part M / Section A / Subpart F.

All actions are to be inspected by certifying staff according to European Union Commission Regulation (EC) 1321/2014 Part M / Part 66 in the scope of a modification and have to be certified in the sailplane inspection documents and in the sailplane logbook. The change to the manual is considered being eligible for release by the Pilot-owner pursuant to M.A.801(b)3 and must be entered on the page „Record of Revisions“ and in the „List of effective pages“.

In countries outside the scope of EC 1321/2014 the corresponding national rules shall apply.

Poppenhausen, 01.02.2017

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This Technical Note bases on a change, which was approved by EASA under the minor change approval EASA 10064607.