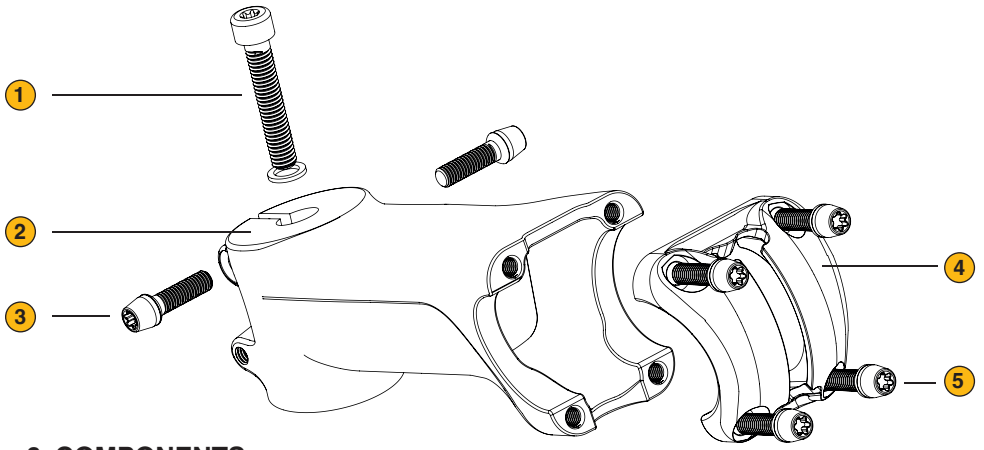

6. COMPONENTS (exploded view)

1. A-Head screw with M6 threading and washer Torx T25
2. Stem (3D forged aluminium)
3. 2x clamping screws M5 x 18 with washer - Torx T25
4. SDS front cap tapered (forged aluminium)
5. 4x screws M5 with washer - Torx T25

Safety Instructions:

1. This manual contains important information regarding the proper installation, use and maintenance of the by,schulz Stem Alpha +10° SDS. Take the listed warning and safety instructions seriously. Failure to do so may result in damage and personal injury for which the seller or manufacturer is not liable.

2. The installation is easily possible on bicycles and e-bikes, provided that the installation requirements are met. If you do not have the appropriate expertise, we strongly recommend installation by a dealer.

3. Child seats must not be attached to the stem or handlebars, as this can lead to breakage or damage. Handlebar bags or baskets can be installed, but may not weigh more than 8 kg including load.

4. To avoid further risks of accidents after a fall, which was accompanied by damage to the component, the stem must be replaced

5. We strongly recommend that you check your bike in general, and the operational safety of the Stem Alpha +10° SDS in particular, before each ride. Make sure that the stem is aligned parallel to the front wheel and is firmly tightened or free of play.

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Operating instructions available for download:
www.byschulz.com

Installation videos available under :
www.youtube.com

EN

by,schulz
INNOVATIVE BIKE COMPONENTS

COMPACT INSTRUCTIONS

Stem Alpha +10° SDS

SDS READY · AL 6061-T6 · 3D FORGED · Ø 31.8MM · SUPER STRONG

1. USAGE APPROVAL

The Stem Alpha +10° SDS is designed to be used with bicycles, cargo bikes, pedelecs and e-bikes up to 45 km/h. It is NOT suitable for extreme loads in downhill, dual slalom or free riding. It is NOT suitable for extreme loads that occur during downhill, dual slalom or freeriding or for riding profiles with jumps.

The 3D forged aluminium A-head Stem Alpha +10° SDS has been tested and approved according to the following DIN standards:

City Trekking DIN EN ISO 4210	*Ebike* up to 25km/h *Pedelec* DIN EN ISO 15194	*Speed-Ebike* up to 45km/h *S-Pedelec* DIN EN ISO 15194	*MTB Cross Country* DIN EN ISO 4210	*Cargo Bikes* DIN 79010
✓	✓	✓	✓	✓

2. SCOPE OF DELIVERY

· 1 1/8“ A-Head Stem Alpha +10° SDS
· A-Head adjusting screw
· Compact instructions

3. TECHNICAL DATA

· 1 1/8“ A-Head Stem
(No A-head cap required due to design)
· **Handlebar clamp:** ø 31,8
· with **SDS Front Cap** for SDS Links/Adapter
· **Material:** Aluminium AL-6061-T6, 3D forged
· **Angle:** +10°
· **Color:** black anodized
· **Installation height:** approx. 55 mm at 80 mm length
· **Weight:** from 185g
· **Lengths:** 70 / 80 / 90 / 100 / 110 mm

SDS SYSTEM

All by,schulz stems are fitted with the SDS / **S**tem **D**ocking **S**ystem front cap installed, which was also developed by by,schulz. Using a variety of SDS links and SDS adapters allows a simple and stable mounting of accessories, individually or in combination, such as headlights, GPS, action cam, bottle cage, etc..

4. TOOLS

which are needed for the installation:
· Torx T25 wrench
· Torque wrench with T25 Torx bit

5. INSTALLATION REQUIREMENTS

· A-Head fork shaft 1 1/8“ threadless, outer diameter 28,6 mm.

· Freely available fork shaft protrusion must be 38-39 mm.

· Spacers/risers can be installed to achieve the correct projection.

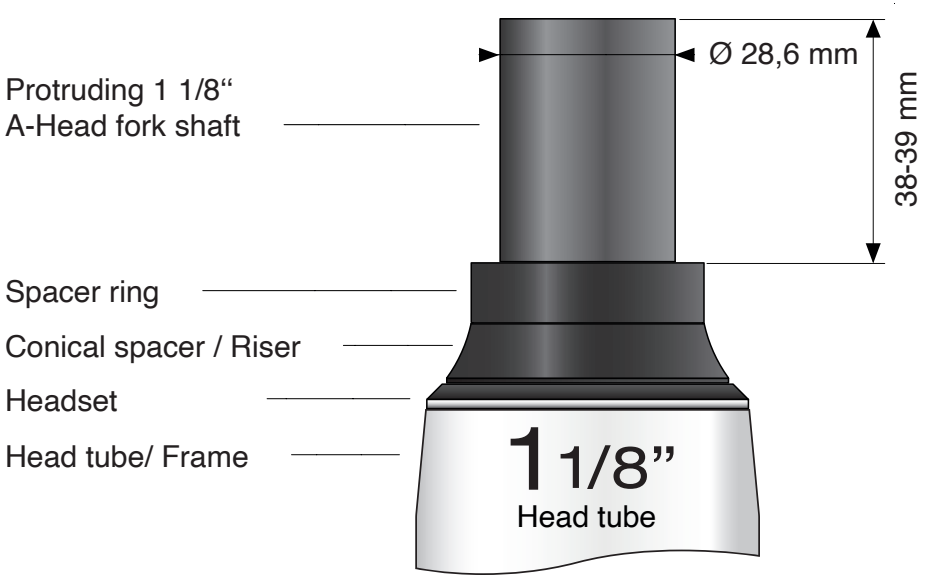
· The threadless fork shaft can be shortened to the correct length. When cutting, make sure that the fork shaft end still has an outer diameter of 28.6 mm and has no sharp edges.

· An A-head claw (starnut) with an M6 thread or a similar device must be placed in the fork shaft approx. 10 mm below the end of the tube. This is used to adjust the headset clearance.

· The brake and shift cables, as well as electrical cable connections to the handlebars, must be of sufficient length to keep them free of bends and to ensure that they do not interfere with the steering in any way.

· Handlebar and stem must be compatible with each other and must have the same clamping diameter of 31.8 mm. We recommend the use of by,schulz handlebars, as they are adapted for mounting on the Stem Alpha +10 ° SDS.

Technical Installation Requirements
Stem Alpha +10°



6. INSTALLATION

Before mounting, make sure that all clamping surfaces of the stem, fork shaft and handlebars are clean and free of grease!

6.1 Mounting the stem

1. Loosen the two M5 Torx T25 clamping screws of the Stem Alpha +10° SDS. (Fig. 6.1.1)

Fig. 6.1.1

2. Push the Stem Alpha +10° SDS onto the end of the fork shaft so that it rests directly on the headset or spacer ring (riser)

3. Insert the A-Head screw through the integrated A-Head cap into the A-Head claw in the fork shaft and tighten lightly. (Fig. 6.1.2)

Fig. 6.1.2

4. Align the stem exactly in the riding direction

5. Adjust the headset by tightening the A-head screw clockwise so that there is no play. It must still be possible to turn the fork easily in the head tube. If the bearing play cannot be adjusted with the A-head bolt, check the fork shaft protrusion. (Fig. 6.1.2)

7. Tighten the two M5 Torx T25 clamping screws of the stem clockwise with a torque wrench to 7-8 Nm. (Fig. 6.1.3)

Fig. 6.1.3

6. The stem is now firmly fixed on the fork shaft. Check bearing clearance and alignment of the stem, correct if necessary. Now the handlebar assembly takes place.

6.2 Installing the handlebar

1. Loosen the four M5 Torx T25 clamping screws of the Stem Alpha +10° SDS. (Fig. 6.1.1)

2. Place the clamping area of the handlebar on the clamping area of the stem eye.

3. Reattach the SDS front cap using all 4 screws.

4. Tighten the top two bolts slightly clockwise so that the handlebar can be aligned and rotated to the desired grip position. (Fig.6.2.1)

Fig. 6.2.1

5. Then first tighten the two upper clamping screws without a gap and then the two lower ones evenly with a torque spanner to 5-6 Nm (Fig. 6.2.2).

Fig. 6.2.2

7. If necessary, the grips, brake and shift levers must be realigned.

8. The Stem Alpha +10° SDS is now ready for use.

7. MAINTENANCE

After the first assembly of the stem and a short running-in period of approx. 20 km, check the fork and handlebar play. Readjust them if necessary. Clean the stem regularly. At every annual bicycle inspection (at least every 1000 km), the play of the headset and Stem Alpha +10° SDS should be checked professionally.