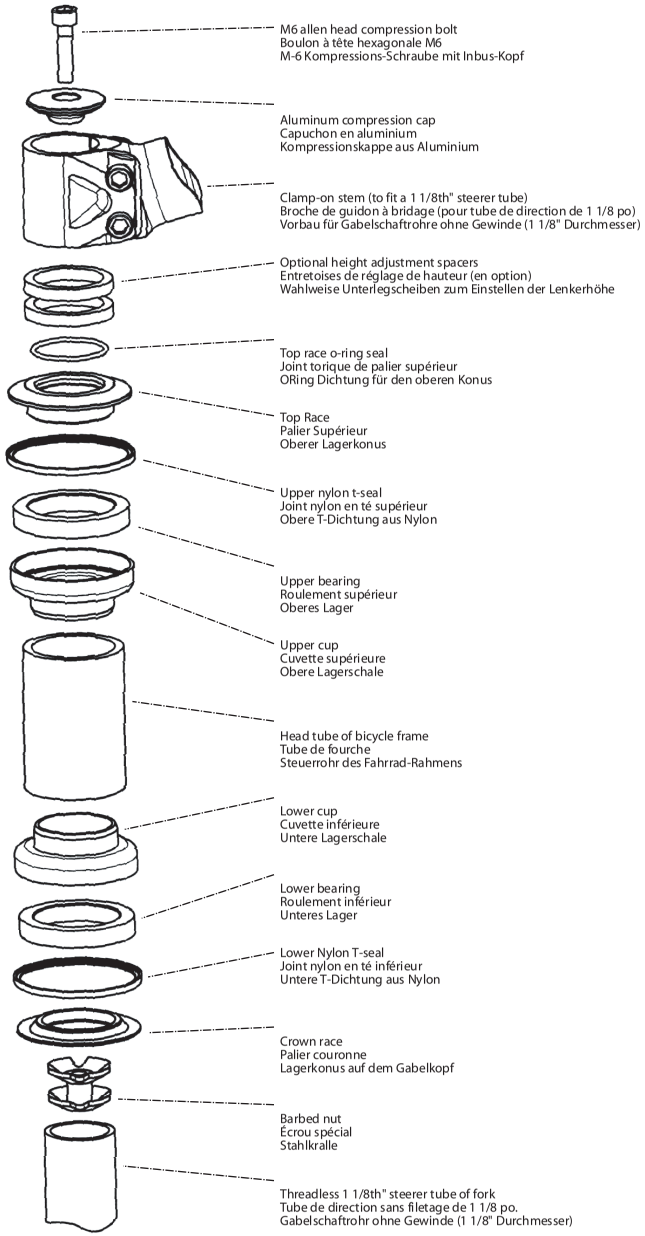
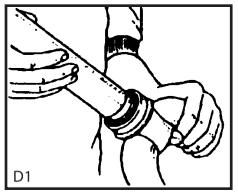
RACE FACE REAL SEAL HEADSET - ASSEMBLY DIAGRAM

JEU DE DIRECTION MODÈLE REAL SEAL - SCHÉMA DE MONTAGE

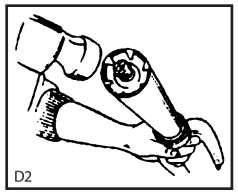
RACE FACE REAL SEAL STEUERSATZ - EXPLOSIONSZEICHNUNG



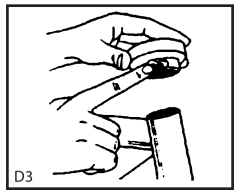
D6



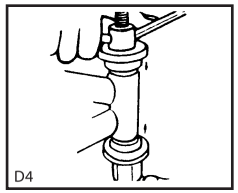
D1



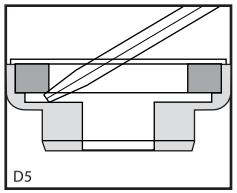
D2



D3



D4



D5

We strongly recommend that you have a professional bike shop install and service your Race Face components. Improper assembly and/or adjustment will significantly compromise the strength and life span of this component. If you choose to install the component yourself, please follow the installation instructions carefully. NOTE: The rider assumes all risks upon installation and use of Race Face components.

ASSEMBLY INSTRUCTIONS

COMPATIBILITY SPECIFICATIONS:

For use with 1 1/8" threadless steerer tubes only.

Fork crown race diameter = 30.20mm

Head tube cup press diameter = 34.00mm

Upper stack height = 16.00mm

Lower stack height = 13.00mm

Total stack height = 29.00mm

STEERER TUBE LENGTH FORMULA:

To determine the required fork steerer tube length use the following equation:

Head tube length (e.g.) 105.0

Headset stack height + 29.0

Stem height (e.g.) + 40.0

Optional height spacer(S) (e.g.) + 5.0

Less compression gap for pre-load - 2.0

Total steerer tube length required (e.g.) = 172mm

Note 1: The full length of the steerer tube must be UNTHREADED!

Note 2: After cutting the steerer tube to length, remove all burrs from both the inside and outside of the top edge of the tube. This is necessary for ease of installing the BARBED NUT and the TOP RACE.

INSTALLATION INSTRUCTIONS

1) Apply a light film of grease to the inside diameter of the CROWN RACE. This will prevent seizing and will allow for easier removal in the future. This is especially important with aluminum steerer tubes. Install CROWN RACE onto fork using a standard slide hammer to fit 1 1/8" steerer tubes. Make sure that the bottom of the crown race is flush with the fork crown (i.e. no gap). SEE DIAGRAM #1.

2) Install BARBED NUT into steerer tube. For best accuracy use special tools manufactured by "Diacompe" or "Park" if available. If not then install the M6 allen head bolt into the barbed nut and tap into place with a hammer to depth of approximately 1 cm. SEE DIAGRAM #2.

3) Apply a coating of grease to the portion of the headset cups that are to be pressed into the frame. SEE DIAGRAM #3.

4) Press the upper and lower headset cup/bearing assemblies into the frame using a high quality bicycle cup press. Guide the cups carefully into the head tube to ensure that they are being pressed-in straight. Make sure that both cups fit in flush with the faces of the head tube and there are no gaps.

Warning: Do not use cup press tools that make contact with the inside races of the bearings. Use of such tools for installation will result in damage to these components and will dramatically reduce their performance and service life.

Note 1: We recommend use of models such as that made by "Park Tool Co." as this design distributes the load across the entire surface of the headset cup rather than just the inside race, thus protecting the bearing races from damage during installation. SEE DIAGRAM #4.

Note 2: For best results we highly recommend that a professional bike shop REAM AND FACE your frame's head tube and install the cups for you.

5) Drop one of the NYLON T-SEALS over the fork's steerer tube and fit it onto the outside edge of the crown race.

6) Slide the fork's steerer tube through the frame's head tube and drop-on one NYLON T-SEAL to fit onto the outside edge of the upper cup.

7) Apply a light film of oil or grease to the TOP RACE O-RING SEAL (for ease of installation). While holding the fork in position, slide the TOP RACE onto the steerer tube and down until it makes contact with the upper bearing. *This will be a tight fit as it is necessary for the function of this headset. Rotating the TOP RACE slowly while pushing down will make installation easier.

Note: To ease installation of the TOP RACE; file a small chamfer onto the outside diameter edge at the top of the steerer tube. This will act as a "lead-in" for the o-ring.

8) Slide any OPTIONAL HEIGHT ADJUSTMENT SPACERS you require onto the steerer tube. *We recommend using at least two - 5mm spacers during initial set-up. Remember, if it's too high, you can always cut the steerer tube shorter, but if you cut it too short initially, you can't add material back on!

Note: "Optional height adjustment spacers" are not included with the Race Face headset. These can be purchased separately to suit your height requirements, or, any non-keyed 1 1/8" headset spacers can be used.

9) Install STEM onto steerer tube, but DO NOT tighten clamping mechanism yet.

10) Drop ALUMINUM COMPRESSION CAP onto top of steerer tube and install M6 allen head bolt through cap and thread into BARBED NUT previously installed into steerer tube.

11) Tighten M6 allen head bolt, using a 5mm allen key, until all play is removed from the headset mechanism but it still rotates freely. You have now achieved correct headset adjustment.

Note: Do not over-tighten! This compression mechanism is designed for pre-load only, and overloading the allen head bolt may damage the ALUMINUM COMPRESSION CAP, or cause the BARBED NUT to slip, or adversely affect the service life of your headset bearings. This operation should create very little load on the allen key.

12) Line-up stem straight with your front wheel, then tighten stem's clamping mechanism to lock in headset adjustment and stem position.

Note: When headset assembly is complete, the T-SEALS should be "floating" between the upper and lower headset cups and their corresponding races, and should rotate freely.

THIS COMPLETES THE INSTALLATION! NOW GO RIDE YOUR BIKE!

SERVICE INSTRUCTIONS

The design of the Race Face Headset enables you to completely remove and re-install the fork of your bike in minutes and requires only 1 tool; a 5mm allen key!

Use this feature to frequently inspect your headset on the inside. This is especially important after a particularly wet ride or after cleaning your bike off with a high pressure water hose.

CLEANING THE SYSTEM

1) Remove allen head bolt and ALUMINUM COMPRESSION CAP, loosen the stem's clamping mechanism and remove stem.

2) Remove: OPTIONAL HEIGHT ADJUSTMENT SPACERS, TOP RACE, AND T-SEAL, then slide fork out of head tube.

3) Wipe all headset surfaces, steerer tube, and inside head tube with a clean dry rag to remove any moisture from the headset/head tube area.

4) Re-install and re-adjust headset as per installation instructions, starting with step #5.

RE-GREASING THE BEARINGS

1) Follow steps 1 to 3 above.

2) With the bearings still in the cups; remove the exposed rubber seal on both the upper and lower bearings. This can be achieved with a pointed tool such as a flat head micro-screwdriver. Slide the flat blade of the screw driver under the inside edge of the seal and gently pry the seal free from the bearing, rotating around the bearing as you go.

Note: Do not bend or deform the seal in any way! This will make re-installation impossible!

RACE FACE PERFORMANCE PRODUCTS