

POST-MODERNE

LOCK-OUT™ HEADSET

Model No. OT-908Ax*

for Threadless / Aheadset

* Including Model Nos.: OT-908A, OT-908AE



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INSTALLATION INSTRUCTIONS

Please refer to Dimensions / Specifications / Parts listed on opposite page.

⚠ CAUTION:

All bicycle maintenance and installation should be installed by a qualified bicycle service technician or mechanic, in accordance with the manufacturer's installation specifications. If you are not fully qualified or experienced in the field of bicycle maintenance, then defer to a professionally trained bicycle service technician or mechanic.

⚠ WARNING:

Improperly installed products are at risk to fail suddenly and/or unexpectedly, causing the rider to lose control, potentially causing **SERIOUS INJURY OR DEATH.**

TOOLS REQUIRED:

Headset Press
Allen Wrench, 2 mm

PREPARATION

Review these points before installing the headset:

- The LOCK-OUT™ function is in the upper bearing assembly of the headset. The lower bearing assembly of the headset does not need to be removed or replaced. In some versions of the LOCK-OUT™ Headset the lower bearing assembly may be included.
- Replacing an existing headset with a LOCK-OUT™ Headset:
 - Remove the upper bearing assembly of the old headset that is being replaced.
- Installing LOCK-OUT™ headset on a new frame:
 - Make sure the head-tube is faced and square.
 - Install star-fangled nut into steerer tube or similar pre-load parts.
- Measure these dimensions to make sure the headset will fit:
 - Fork Steerer outer diameter (OD)
 - Head Tube inner diameter (ID)
 - Upper Stack Height (length of steerer tube over top of head tube)
- Check the chart on the opposite page to verify your LOCK-OUT™ headset and bicycle are compatible.

INSTALLATION

Follow these steps to install the upper headset bearing assembly and LOCK-OUT™ system.

1. Apply a film of grease or anti-seize to the inner bore of the head-tube.
2. Remove the Compression Ring and Bearing Assembly from the Upper Headset Cup.
3. Install the Upper Headset Cup into the headtube using a headset press. Refer to the instructions from the supplier of the headset press.

⚠ WARNING:

Make sure that the bearing press is pressing on the upper outer edge of the steel bearing cup.

DO NOT press on the steel bearing race.

⚠ CAUTION:

Make sure the cup is fully pressed in and square to the head-tube.

4. Install the lower headset bearing cups (not shown), if necessary. Insert the lower bearings and fork into the lower headset cup.
5. Replace the Compression Ring and Bearing Assembly to the Upper Headset Cup.

For caged bearings, apply suitable bearing grease to the bearing race, bearings and bearing cone to ensure smooth turning and maximize longevity.
6. Install the Upper Assembly with Integrated Headset LOCK-OUT™ Knob onto the steerer tube until it bottoms out lightly and touches the bearings.

⚠ CAUTION:

Make sure the female spline of the LOCK-OUT™ Knob engages with the male spline of steel ring of the Upper Headset Cup.

7. Loosely install the protective rubber cover on the upper assembly.
8. Install the upper cone spacer on top of the Upper Assembly.
9. Install the stem and any spacers (not shown). Do not tighten the stem.
10. Install the headset top-cap (not shown).
11. Fine-tune the bearing pre-load by checking:
 - If there is play in the fork then clockwise tighten the screw on the headset top-cap.
 - If the fork does not turn freely and smoothly then counter-clockwise loosen the screw on the headset top-cap.

12. Using a 2mm allen wrench, sequentially tighten the four set screws in a 4 point pattern. Tighten to about 1.6 N-m.
13. Tighten the stem to the steerer, following the instructions from the stem manufacturer.
14. Repeat Step (10.) to check the bearing pre-load and re-adjust as necessary.
15. Install the protective rubber Cover over the set-screws.

⚠ WARNING:

NEVER exceed the MAXIMUM TORQUE on the stem clamp stem body. ALWAYS tighten the stem clamp bolts to the manufacturer's torque specifications. FAILURE to do so could cause damage to the fork and/or headset and could cause **SERIOUS INJURY OR DEATH.**

LOCK-OUT™ FUNCTION

The LOCK-OUT™ function is simple to understand and easy to use.

⚠ WARNING:

DO NOT ENGAGE the LOCK-OUT™ while riding the bicycle. Always come to a complete stop and dismount the bicycle before engaging the LOCK-OUT™. Using the LOCK-OUT™ function while riding the bicycle will cause loss of control, potentially causing **SERIOUS INJURY OR DEATH.**

Locking Out the headset, for parking or lifting the bicycle:

By hand, turn the LOCK-OUT™ ring clockwise by 90° until the fork and handlebar no longer turn freely.

Unlocking the headset, for riding the bicycle:

By hand, turn the LOCK-OUT™ ring counter-clockwise about 90° until the fork and handlebar steer freely.

⚠ WARNING:

ALWAYS DOUBLE-CHECK the headset is unlocked before mounting and riding the bicycle. FAILURE TO CHECK that the headset is unlocked before riding the bicycle will cause loss of control, potentially causing **SERIOUS INJURY OR DEATH.**

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DIMENSIONS / SPECIFICATIONS / PARTS

MODEL NAME	DESCRIPTION: - stem spec - fork steering tube - cups	LOCK-OUT RING MATERIAL	BEARING TYPE	Steerer OD [mm]	Crown Race OD [mm]	HEAD TUBE ID [mm]	UPPER Stack Height [mm]
AHEAD/THREADLESS 1-1/8" - ZERO-STACK CUPS							
OT-908AE	Ahead stem/ w/o threads Zero Stack	Plastic	Caged Bearing	28.6	30.0	44.0	35+h
OT-908A	Ahead stem/ w/o threads Zero Stack	CNC AL	Caged Bearing	28.6	30.0	44.0	35+h

