

POST-MODERNE

LOCK-OUT™ HEADSET

Model No. OT-907-x*



for Quill Stems/Threaded Steerers

* Including Model Nos. :

OT-907-4, OT-907-42, OT-907-6, OT-907-62

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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

Headset Wrenches 36mm

PREPARATION

⚠ WARNING:

The top face of the fork steerer must be perfectly FLAT and SQUARE to the axis of the steerer tube. This is critical to maintain adjustment of the headset bearings and the SAFETY of the steering of the bicycle. Check the top of the fork steerer with a metal L-square. If the top of the steerer is not flat and square then carefully file it flat and square.

Next, 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.

- 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 Wave Washer, Compression Ring, Bearing Cone and Bearings 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 plastic outer ring.

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, if necessary. Insert the lower bearings and fork into the lower headset cup.
5. Replace the Wave Washer, Compression Ring, Bearing Cone and Bearings to the Upper Headset Cup.

Apply suitable bearing grease to the bearing race, bearings and bearing cone to ensure smooth turning and maximize longevity.

6. By hand, clockwise thread the Upper Cover with Integrated Headset LOCK-OUT™ ring onto the steerer tube until it bottoms out lightly and touches the bearings.
If necessary use a headset wrench on the adjusting nut to assist turning the Upper Cover assembly.

⚠ CAUTION:

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

7. Fine-tune the pre-load by checking:
 - If there is play in the fork then clockwise tighten the Upper Cover.
 - If the fork does not turn freely and smoothly then counter-clockwise loosen the Upper Cover nut.

8. Install the Lock Nut by clockwise threading it fully into the Adjusting Nut until it bottoms out on the top of the steerer tube. Make sure there is a light film of grease on the threads.
9. Using a pair of headset wrenches, tighten the Lock Nut to about 20 N-m.
10. Repeat Step (7.) to fine-tune the pre-load by loosening and tightening the Adjusting Nut and Lock Nut to achieve perfect pre-load.

11. Install the protective plastic Cover over the headset nuts.

12. Install the quill stem and handlebar assembly, following the instructions from the stem manufacturer.

⚠ WARNING:

NEVER exceed the MINIMUM INSERTION MARK on the quill stem body. Always make sure the stem is installed into the fork steerer correctly. ALWAYS tighten the quill expander wedge bolt 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]
QUILL/THREADED 1" - TRADITIONAL CUPS							
OT-907-4	Quill stem/ w/ threads Traditional Stack (JIS)	Plastic	Caged Bearing	25.4	27.0	30.0	24 +4/-0 (For AM)
OT-907-42	Quill stem/ w/ threads Traditional Stack (JIS)	Plastic	Caged Bearing	25.4	27.0	34.0 (reducer)	24 +4/-0 (For AM)
QUILL/THREADED 1-1/8" - TRADITIONAL CUPS							
OT-907-6	Quill stem/ w/ threads Traditional Stack	Plastic	Caged Bearing	28.6	30.0	34.0	24 +4/-0 (For AM)
QUILL/THREADED 1-1/8" - ZERO-STACK CUPS							
OT-907-62	Quill stem/ w/ threads Zero Stack	Plastic	Caged Bearing	28.6	30.0	44.0	24 +4/-0 (For AM)

