Precision Torque Limiter

Rotation: both CW and CCW
Calibration accuracy: + /- 4%

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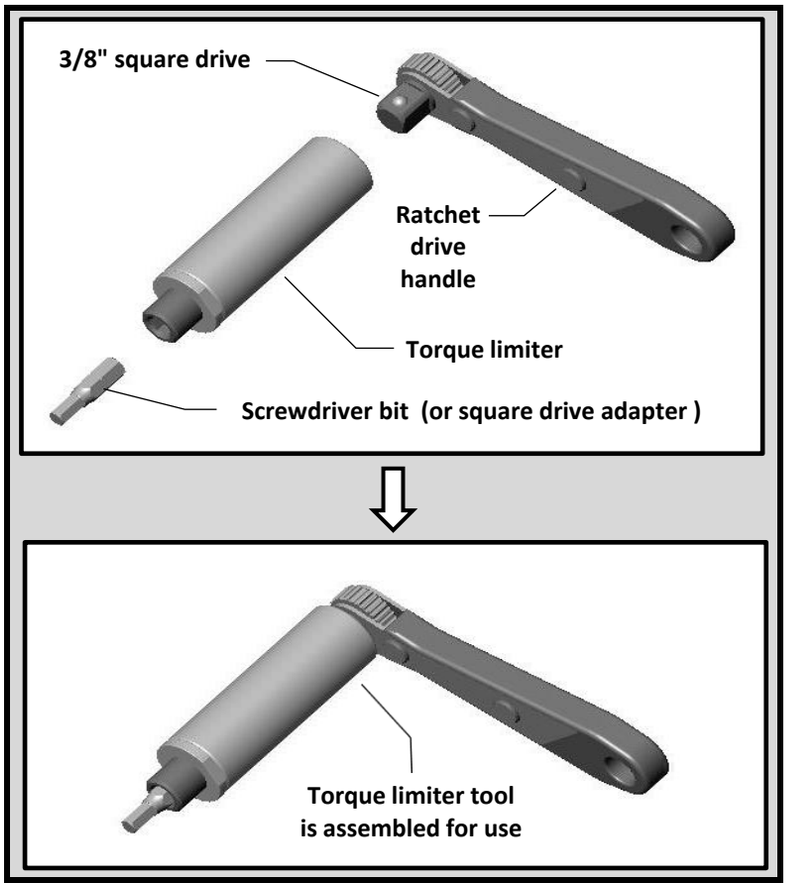
This instruction is applicable to any Borka Tools precision torque limiter, which has "PTL" shown as a part of its product code, laser marked or labeled on the outside of the torque limiter body.

How to use the kit: Remove torque limiter and ratchet drive handle from the package. Assemble the torque limiter and ratchet drive handle together by inserting the 3/8" square male end of the ratchet into the 3/8" square female socket of the torque limiter. Mount screwdriver bit (or square drive adapter, if applicable) into the torque limiter. For help, see picture on the right. Make sure that handle ratchet switch locks the ratchet mechanism in CW direction of rotation. Engage fastener with screwdriver bit (or with the socket mounted onto adapter, if applicable) and apply torque in CW direction of rotation; when correct tightening torque is reached, torque limiter will slip with audible click. Review operating instructions on the opposite side of this sheet. For more details, which are common between all PTL based kits, watch demonstration video, which can be found on Youtube by doing a search for "Precision Borka torque tool for FNH SCAR", and which is applicable to all PTL based kits.



Torque limiter carries 24 months warranty from the date of purchase. Any issues caused by mechanical damages, which may occur due to user's actions, and which may be visible on the outside of the torque limiter, are not covered by warranty. Never attempt to disassemble, recalibrate or alter design of the torque limiter, as such actions will void the warranty, may damage tool components and can cause very serious injuries. Do not use torque limiter with power tools or as a hammer.

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Borka PTL Torque Tool Operating Instructions.

To tighten the fastener:

1. Verify that the ratchet drive handle is locked to apply torque in CW rotation.

2. Tighten the fastener. Torque tool will slip with an audible “click” when preset tightening torque is reached.

To loosen the fastener:

A. Primary (recommended) method.

1. Flip the ratchet switch of the drive handle to the other side. *Note: This will lock ratchet drive handle to apply torque in CCW rotation.*

2. Loosen the fastener.

To apply tightening torque again, flip the ratchet switch of the drive handle back to the initial position, locking the ratchet drive handle for application of torque in CW rotation.

B. Secondary (emergency) method.

1. Disconnect torque limiter and ratchet drive handle.

2. Remove bit from the torque limiter and insert it into the 1/4" hex socket of the ratchet drive handle.

3. Loosen the fastener.

To apply tightening torque again, reverse the steps #1 and #2 above: connect ratchet drive handle to the torque limiter and insert the bit into the torque limiter.

***Special note**: use this secondary method ONLY if primary method fails to loosen the fastener, with torque tool being observed to slip in CCW rotation without loosening the fastener. This indicates that required loosening torque is higher than previously applied tightening torque. Such condition may occur because torque tool is preset to the same torque value in both CW (tightening) and CCW (loosening) direction of rotation, which is an important safety feature of Borka PTL torque tool, implemented in order to prevent overload and potential mechanical damage to the internal components of the torque tool. In normal operating conditions, loosening torque is likely to be 15-25% less than the tightening torque, allowing the use of primary method while providing complete safety against potential torque tool damage. However, because of possible corrosion in the threads, or use of thread locking compounds, or an application of uncontrolled initial tightening torque without use of the torque tool, it becomes possible that the actual loosening torque may become unpredictably higher than preset torque value of the torque limiter. If this happens to be the case, then choose the secondary method, which is to bypass the torque limiter and to apply required loosening torque directly by the ratchet drive handle in CCW rotation.*