Adjustable Torque Driver

Model: ATD-1085-CSA-MG

Tightening torque adjustment range: 10-85 inch-lbs.

Torque calibration accuracy: +/- 4% of torque values.

Made in the U.S.A. US Patent # 8,667,870 B2

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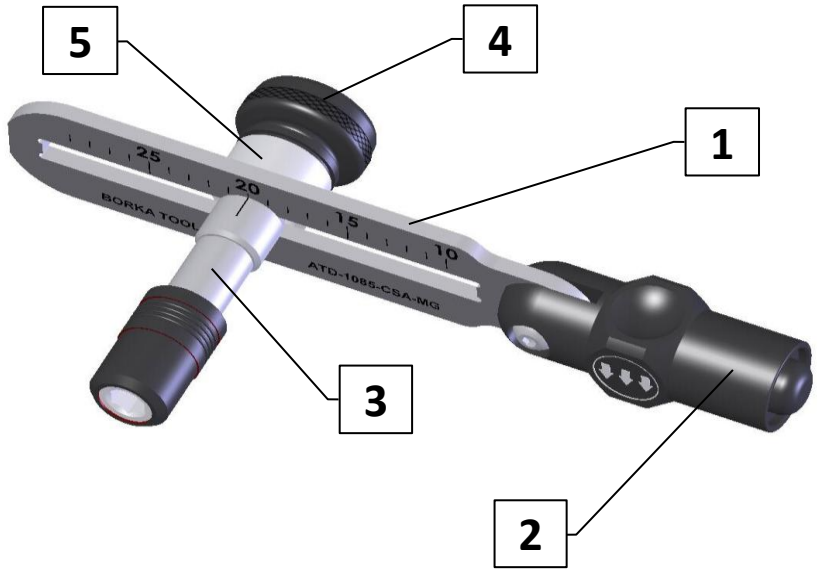
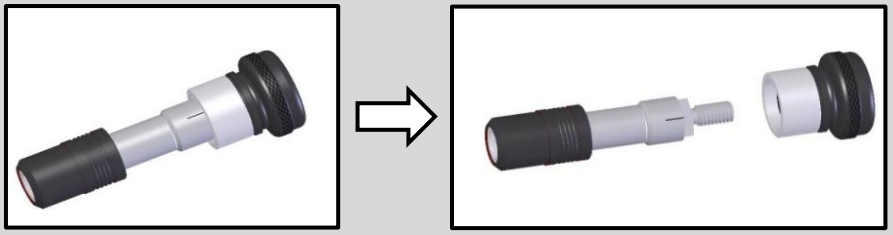
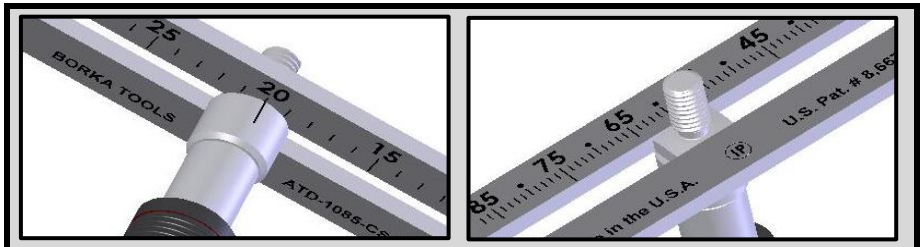
Borka Tools Adjustable Torque Driver (ATD) has a total adjustment range from 10 to 85 inch-lbs, and is adjustable in 1 inch-lb. increments. This range is split into low torque range from 10 to 29 inch-lbs. and high torque range from 30 to 85 inch-lbs. ATD consists of two principal components: torque driver unit and driver spindle unit, which may be carried separately in a compact package, but must be assembled together for torque driver setup and use. Torque driver unit consists of torque driver arm (1) with torque value scales on both sides, which is permanently assembled with torque sensing handle of "break-over" design (2). Driver spindle unit consists of driver spindle with screwdriver bit locking function (3), and spindle knob (4) with the integral clamp ring (5), and is designed to be easily disassembled and re-assembled by the user. Driver spindle accepts standard 1/4" hex type C and type E screwdriver bits, drive adapters and extensions.

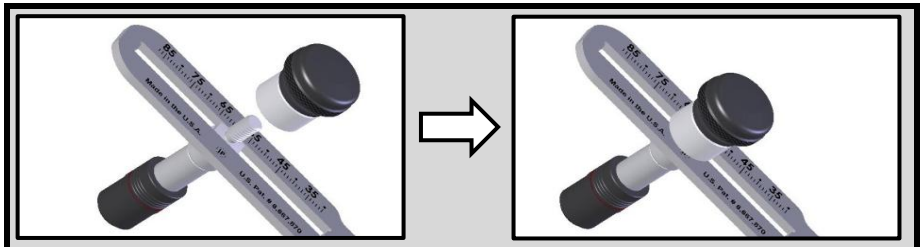




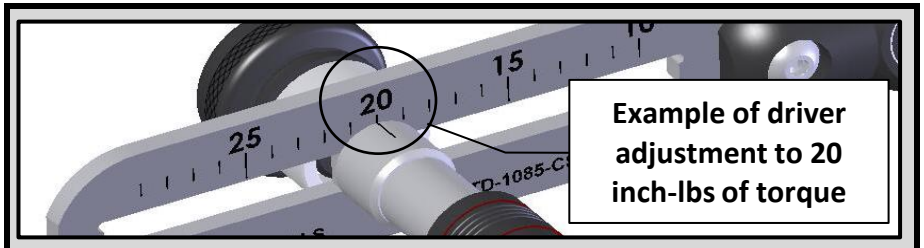
1. Start with disassembly of the driver spindle unit by twisting the spindle knob off the driver spindle in counterclockwise rotation, until both the driver spindle and spindle knob are completely separated from each other.



2. Attach driver spindle to the torque driver arm from the side of the arm which has the torque value scale in a torque range you would like to use, making certain that the rectangular lug of the driver spindle is situated inside the slot of the driver arm.



3. Re-assemble spindle knob with the driver spindle, rotating it clockwise until clamp ring of the spindle knob touches the surface of the driver arm, which you can feel by a slight increase in rotational resistance, but DO NOT tighten the knob yet.



4. Align the scale pointer (small black arrow or a line mark) on the driver spindle body with desired torque setting on the scale of the driver arm, then tighten the spindle knob by twisting it approximately a half turn in a clockwise rotation.

Please watch detailed video guides from **8541 Tactical** and **Learning Firearms.** Search **Youtube** for "**Borka Tools ATD**", then select video with thumbnail as shown on the left (the most informative), or as shown on the right (the good alternative).

The same videos can be also found on the front page of www.shooterstools.com

To use the driver for the tightening of right hand fasteners: Take the torque driver in your right hand as shown (Fig.1). Engage the fastener you intend to tighten, for example, scope ring screw (Fig.2). Then apply tightening force to the handle spherical notch with your thumb in a wrist twisting motion (Fig.3), until driver handle breaks over to the side (Fig.4). This would indicate that the tightening torque is fully applied. To reset the driver, rotate driver handle back into initial position, until it locks with the driver arm. Always apply tightening force only to the spherical notch on the handle, and in line with arrow(s) mark.

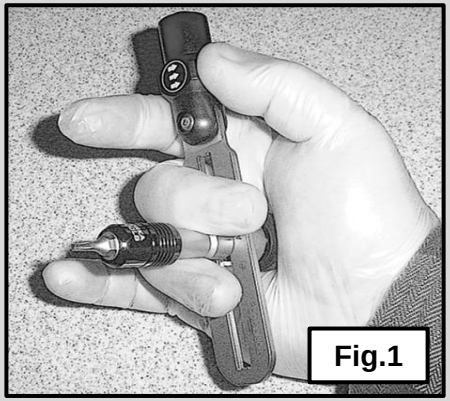


Fig.1

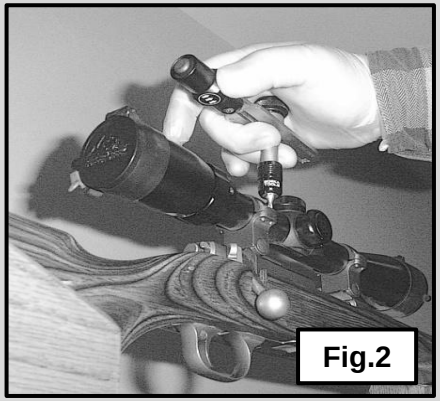


Fig.2

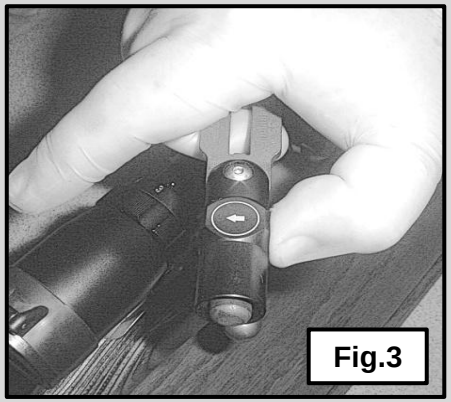


Fig.3

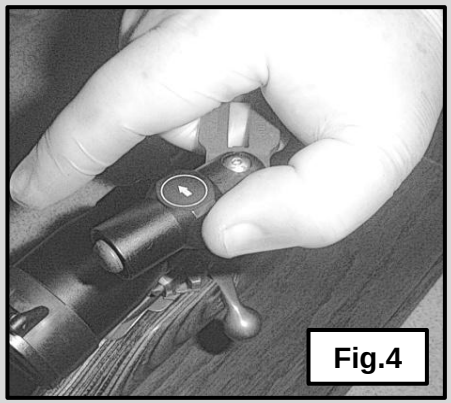


Fig.4

To confirm which of the two torque ranges is in use: "Single arrow in a circle" mark, when visible on top of the driver handle, indicates that the torque driver is configured for operation within the low torque range, between 10 inch-lbs. and 29 inch-lbs. **"Triple arrows in a circle"** mark, when visible on top of the driver handle, indicates that the torque driver is configured for operation within the high torque range, between 30 inch-lbs. and 85 inch-lbs. These two white color marks on the opposite handle sides point out the direction and location for application of the tightening force by the thumb of the right hand.

To mount screwdriver bit (or 1/4" hex to 1/4" square drive adapter), insert it into the hex socket of the bit holder (driver spindle) and then push it in, until it locks into place. To unlock and remove the screwdriver bit, grab and pull black color bit holder release sleeve (part of the bit holder which has "Borka Tools" marking) in the direction of the spindle knob. After screwdriver bit is unlocked, it is automatically ejected from the hex socket, but still retained in place by the magnet for further easy removal by hand.