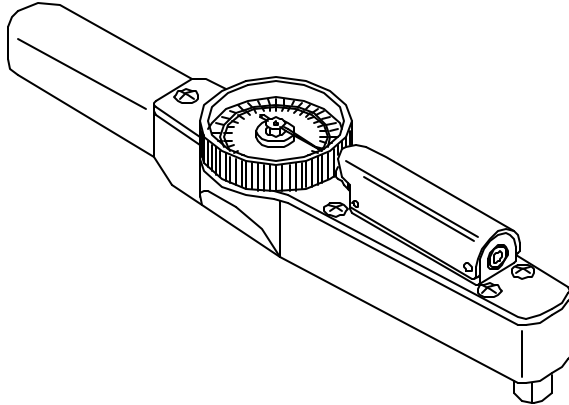

BT-ST-751 TORQUE WRENCH

DMC DANIELS
MANUFACTURING
CORPORATION
DATASHEET

SEE PAGE 4 FOR IMPORTANT INFORMATION CONCERNING LIMITED WARRANTY, AND LIMITATION OF LIABILITY.



OPERATING INSTRUCTIONS

PLEASE READ BEFORE USE!

- Precision Dial Torque Wrench
- Electric Signal Light
- 0–200 in. lb. torque range
- Increment markings of 5 in. lb.
- 3/8" drive

The BT-ST-751 Torque Wrench has the precision accuracy of a standard dial torque wrench, with the added feature of an electric signal light for torque limiting.

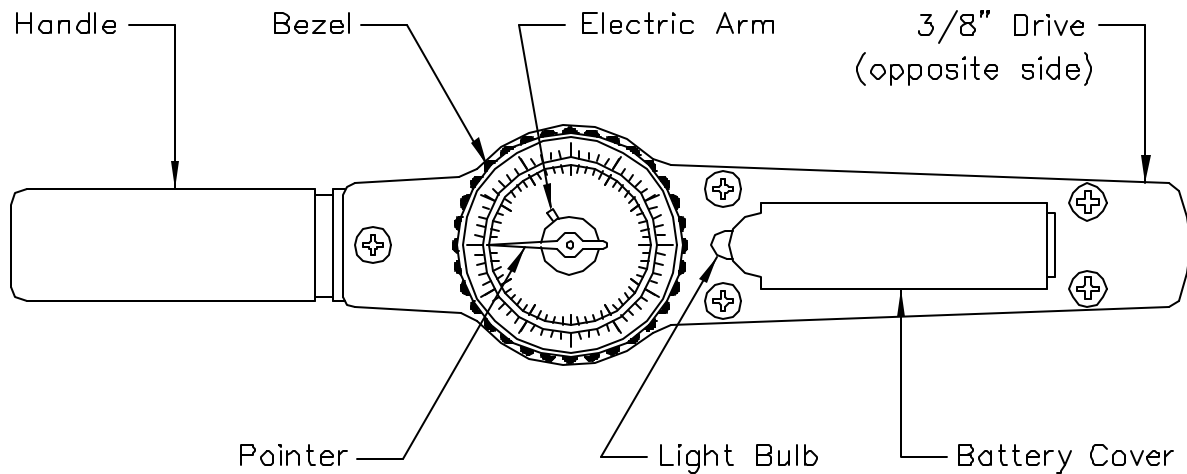
The light signals the user when the preset torque value has been reached, eliminating the necessity of watching the dial during the torque operation.

The Torque Wrench can also be used as a hand held static torque meter. Instead of turning the Torque Wrench to tighten one part onto another, the Torque Wrench is held stationary as a meter and another tool is used to tighten the parts.

OPERATION AND SETTING OF ELECTRIC SIGNAL DIAL

Method 1: Setting Electric Arm at desired torque value.

Certification: This Torque Tool, as calibrated at the factory, is certified to meet or exceed accuracy specified in the Federal Specification GGG-W-00686C and was calibrated on a torque standard that is traceable to the National Bureau of Standards.



Note: For consistency and accuracy it is suggested that this torque tool be dedicated for use in one direction only. Should this not be practical for your application the following procedure should be followed for initial setting or when changing direction. It is recommended that the tool be operated 3 or 4 times at half load in the torque direction that will be used. Full load may now be applied for your application.

Right-Hand Torque (force in clockwise direction):

1. Turn the bezel counterclockwise (CCW) until light goes on.
2. Continue to turn counterclockwise (CCW) and set pointer to the desired torque value.
3. Now, turn bezel clockwise (CW) until pointer is aligned with zero (0).
4. When preset as stated above, the signal light goes on when the applied torque equals the wrench setting.
5. When pressure on the wrench is released, the pointer will return to zero (0).
6. The wrench can be used for repetitive operations without resetting provided the torque on the wrench is released as soon as the signal light goes on. If torque is continued after the light goes on, the wrong torque (over torque) will be applied and the wrench will have to be reset. If in doubt, always reset.

Left-Hand Torque (force in counterclockwise direction):

Proceed as explained for right hand torque except turn bezel clockwise (CW) until light goes on and pointer is aligned with zero (0). Then, turn counterclockwise (CCW) to desired torque value.

Method 2: Setting Electric Arm at zero.

Right-Hand Torque (force in clockwise direction):

1. Turn bezel counterclockwise (CCW) until light goes on.
2. Continue to turn bezel counterclockwise (CCW) until zero (0) of scale is lined up with pointer.
3. Now, turn bezel clockwise (CW) until light goes off and pointer is aligned with the desired torque value. Pointer is now preset to a desired torque.
4. Apply force in clockwise (CW) direction. The preset torque is reached when the light goes on. When force is released the pointer will return to the torque value.
5. To change the preset torque to another value, return to Step 1.
6. Important – always make sure the electric contact arm is zeroed.

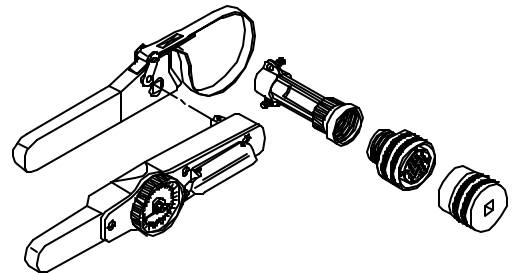
Left-Hand Torque (force in counterclockwise direction):

Proceed as explained for right hand torque except turn bezel clockwise (CW) until light goes on and pointer is aligned with inner zero. Then turn counterclockwise (CCW) to set pointer to desire torque value.

Instructions for Torque Wrench with additional Beta Tools, when used with Circular Connectors and their Accessories.

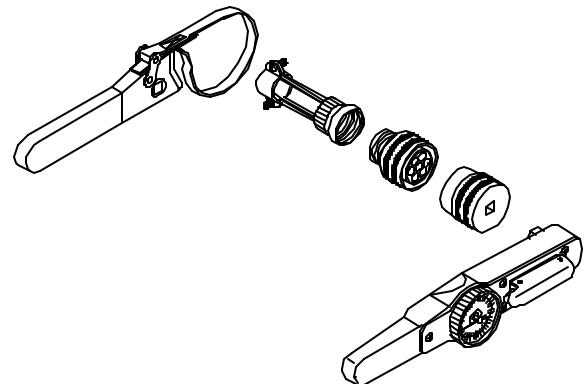
Method A:

The connector is held stationary while the accessory is tightened onto the connector to a specified torque value utilizing the Torque Wrench engaged in the Daniels Strap Wrench.



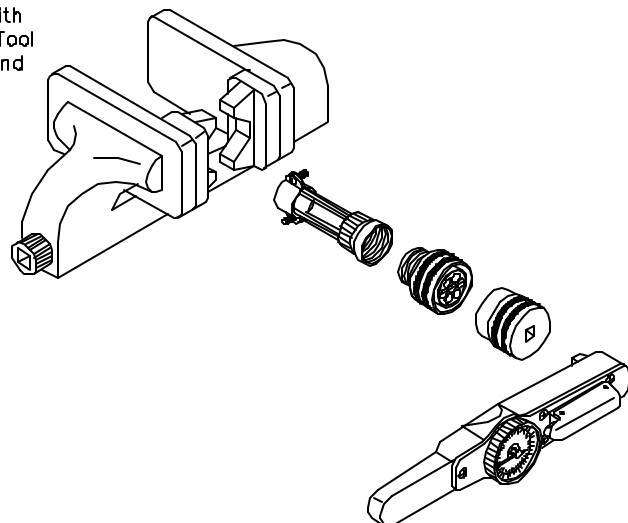
Method B:

The Torque Wrench is used with the Adaptor Tool for tightening the accessory to a specified torque value, but used in a static fashion. The accessory is tightened onto the connector plug with the Daniels Strap Wrench. The preset Torque Wrench signals when the specified torque value has been reached.



Method C:

The accessory is held stationary with the Vise's rubber jaws. The Adaptor Tool is then inserted into the connector and tightened to a specified torque value utilizing the Torque Wrench.



Replacement Battery and Bulb:

1. Bulb, G.E. No. 112, 1.2 V, .22 A, or equivalent
2. Battery: AA, 1.5 V or equivalent
3. Replace bulb without opening the lid. Check for light by turning the bezel until contact is made.
4. To replace battery, open the lid and loosen the bulb. Place the new battery into the housing and tighten the bulb. Check the light by turning the bezel until contact is made.

Daniels Manufacturing Corporation offers complete refurbishing and recalibration services. DMC specially engineers and manufactures complete tool kits to satisfy individual customer requirements, such as total aircraft support, general shop maintenance or production, on board ship and vehicle service, etc.

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