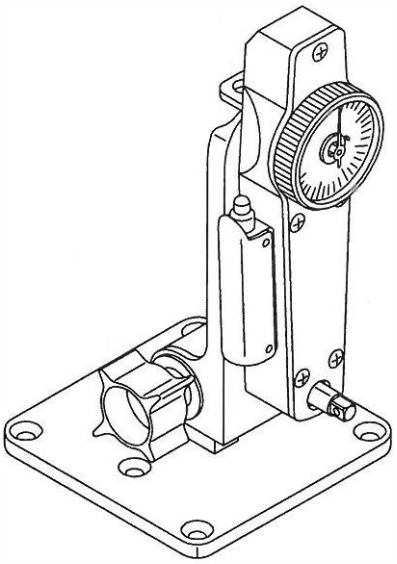
STATIC TORQUE METER

DANIELS MANUFACTURING CORPORATION

DATASHEET

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



Operating Instructions

Please read before use

0–200 in. lbs. torque range
Increment markings of 5 in. lbs.
1/4" drive

A special torque meter for the repeated, controlled, accurate assembly of circular connectors and their accessories.

BT-ST-701

Unequalled Accuracy

The Static Torque Meter works on the proven accurate principle of applied force down the center line of the work. The Torque Meter, utilizing the Daniels Adaptor Tool, applies this principle to the assembly of circular connectors and their rear accessories. It has a balanced pointer and a calibrated alloy steel torque beam, for added accuracy and long life. The Torque Meter is certified to meet the accuracy in Federal Specification GGG-W-00686D, as calibrated at the factory. The accuracy of this wrench is ±4% between 40in-lb and 200in-lb. Accuracy is not controlled below 40in-lb.

Specified Torque Values Improve Assembly Procedures

In the assembly of circular connectors and their rear accessories, the use of a specified torque value improves the consistency of the assembly process by answering the question, How tight is tight?".

The unique Torque Meter works in a static (stationary) mounting position enabling the operator increased use of his/her hands. The meter head can be locked anywhere to a full 90° tilt range to facilitate various access requirements. The exclusive electric signal light eliminates the need to watch intricate dial markings in the torque operation. The Torque Meter should be dedicated for either left or right direction and can be mounted to a bench top, or for mobility, to its clamp base mount accessory.

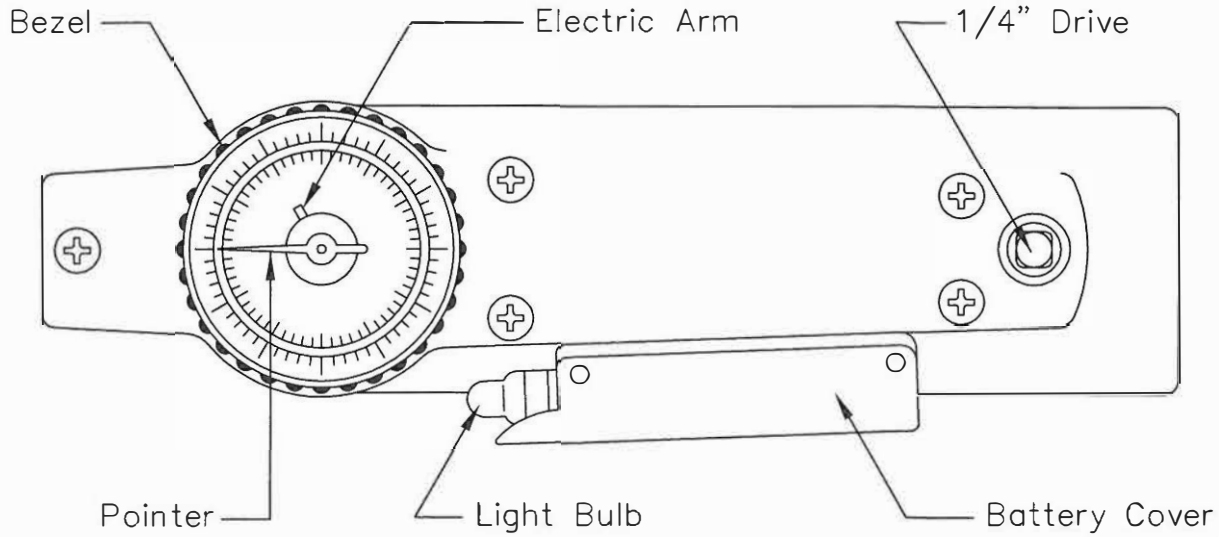
Built to Last

The Torque Meter has a precision geared meter movement for increased durability. All parts are made from alloy and tool steels, specially heat treated; external parts are nickel and chrome plated.

DANIELS MANUFACTURING CORP., 526 THORPE ROAD, ORLANDO, FLORIDA 32824 USA
PHONE (407) 855-6161, FAX (407) 855-6884.

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 exeed accuracy specified in the Federal Specification GGG–W–00686C and was calibrated on o 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 clockwise (CW) until light goes on.
2. Continue to turn clockwise (CW) and set pointer onto desired torque value.
3. Now, turn bezel counter–clockwise (CCW) 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 ofter the light goes on, the wrong torque (over torque) will be applied and the wrench will hove to be reset. If in doubt, always reset.

Left–Hand Torque (force in counter–clockwise direction)

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

Method 2. Setting Electric Arm at zero.

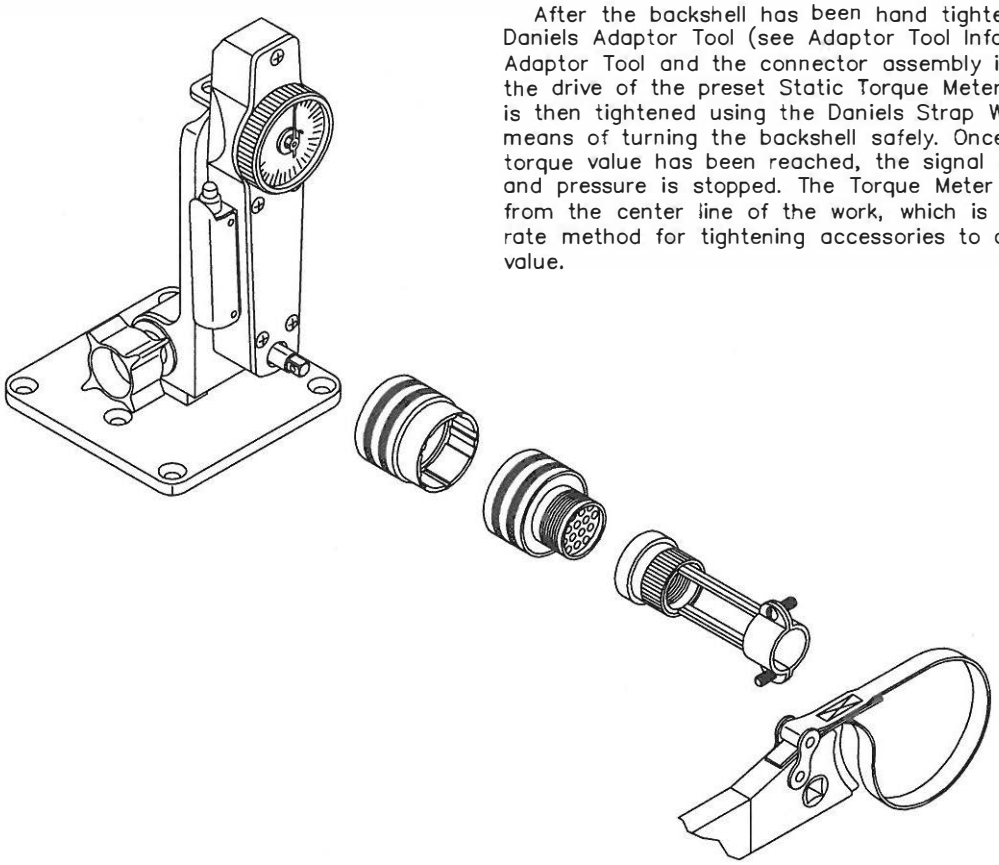
Right–Hand Torque (force in clockwise direction)

1. Turn bezel clockwise (CW) until light goes on.
2. Continue to turn bezel clockwise (CW) until zero (0) of scale is lined up with pointer.
3. Now, turn bezel counter–clockwise (CCW) 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 the 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 counter–clockwise direction)

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

Instructions for Static Torque Meter with the Beta Adaptor Tool on Circular Connectors, and their Accessories.



After the backshell has been hand tightened using the Daniels Adaptor Tool (see Adaptor Tool Information), the Adaptor Tool and the connector assembly is inserted into the drive of the preset Static Torque Meter. The backshell is then tightened using the Daniels Strap Wrench, or other means of turning the backshell safely. Once the proper torque value has been reached, the signal light comes on and pressure is stopped. The Torque Meter measures force from the center line of the work, which is the most accurate method for tightening accessories to a specified torque value.

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.

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9