Sturtevant Richmont

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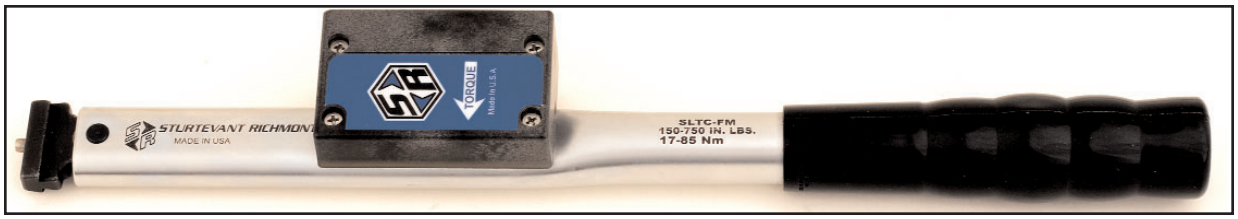
SLTC24-FM (2.4GHz) Torque Wrench Operating Instructions



Models to which these instructions apply:

P/N	Description	P/N	Description
810310	SLTC-FM 2.4GHz OHT	810315	SLTC-FM 2.4GHz 1800I
810311	SLTC-FM 2.4GHz 50I	810316	SLTCR-FM 2.4GHz 3000I
810312	SLTC-FM 2.4GHz 150I	810317	SLTC-FM 2.4GHz 3600I
810313	SLTC-FM 2.4GHz 300I	810318	SLTC-FM 2.4GHz 4800I
810314	SLTC-FM 2.4GHz 750	810319	SLTCR-FM 2.4GHz 7200I

S/R SLTC-Series torque wrenches are designed and manufactured to provide consistent torque application in multiple manufacturing and maintenance applications. They meet or exceed the requirements of ASME B107.28M and ISO 6789. These wrenches are accurate to +/-4% of the preset value from 20% to 100% of rated capacity.

Interchangeable Heads and Dovetail

Any S/R interchangeable head may be used with the wrench. Note: It is imperative that the head used to preset the torque wrench have the same common centerline length as the head that will be used in assembly. Failure to do so will create a different torque output during assembly than that which was preset. To attach the head:

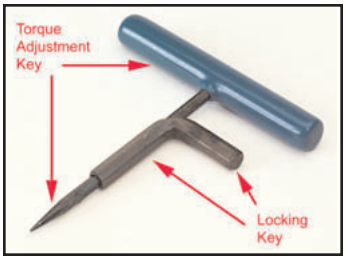
1. Align the head with the dovetail and slide it onto the dovetail until it contacts the retaining pin.
2. Use a small hex key or other device to depress the locking pin.
3. Slide the head completely onto the dovetail.

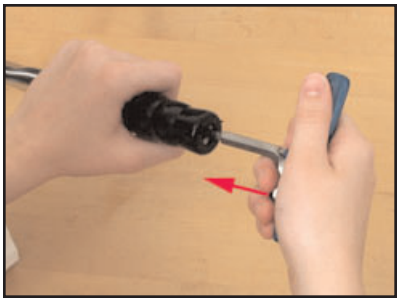
To remove the interchangeable head:

1. Use small hex key or similar device to depress the locking pin through the access hole in the rear of the head.
2. While the pin is depressed, slide the head sideways to hold the pin down and remove the hex key.
3. Slide the head completely off the dovetail.

Torque Setting

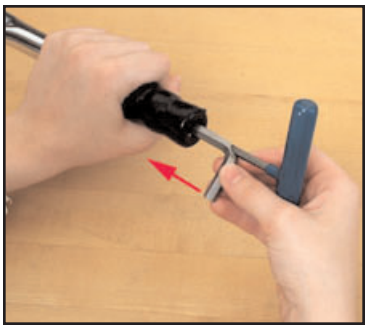
A torque tester of +/- 1% indicated value accuracy, an S/R CART (Combination Adjusting and Release Tool shown at right), and an interchangeable head having the same common centerline length as the head that will be used in assembly and capable of engaging the tester.

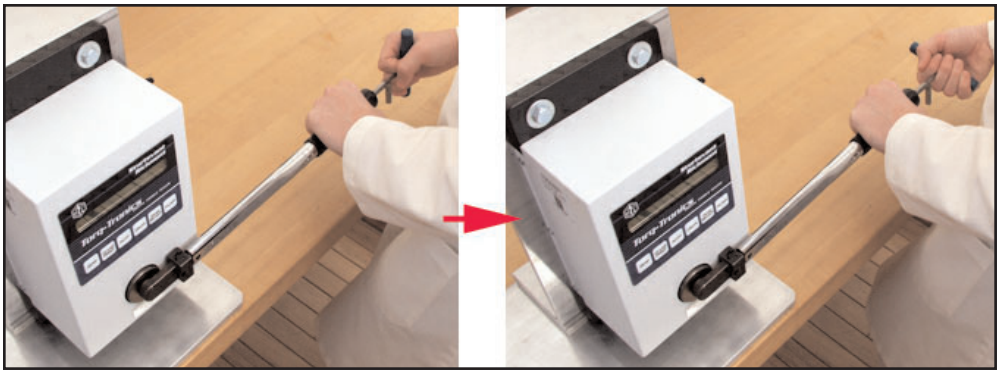




1. Insert the Torque Adjustment Key fully into the rear of the wrench so the hex engages the adjustment nut. Do not engage the Lock Key. Rotate the Torque Adjustment Key slightly clockwise to disengage the adjustment nut from the lock nut.

2. Slide the Lock Key in until it engages the lock nut. You may need to rotate the lock key slightly to align it with the internal hex of the lock nut. Rotate the Lock Key counterclockwise several turns to assure the lock nut is fully disengaged from the adjustment nut and that there is sufficient travel available for the adjustment nut to attain the torque setting desired.





3. Install the interchangeable head on the wrench. Engage the wrench to the tester and click the wrench once or twice while noting the readings. To adjust the wrench to a higher torque setting, rotate the Torque Adjustment Key clockwise. To adjust the wrench to a lower torque setting, rotate the Torque Adjustment Key counter-clockwise. Torque adjustments should be made in small increments with several checks made between each movement of the Torque Adjustment Key.

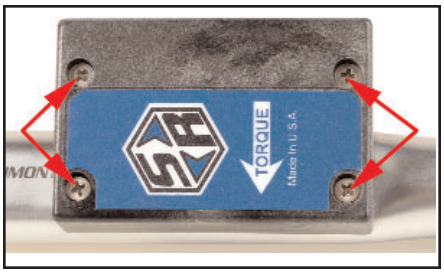
4. Once the desired torque has been attained, hold the Torque Adjustment Key steady and rotate the Lock Key clockwise until the lock nut firmly engages the torque adjustment nut, locking it in place. Remove the CART from the wrench and perform a final torque check on the tester. When the reading matches the desired torque and the lock nut is firmly engaged to the torque adjustment nut, the procedure is complete.

Transceiver

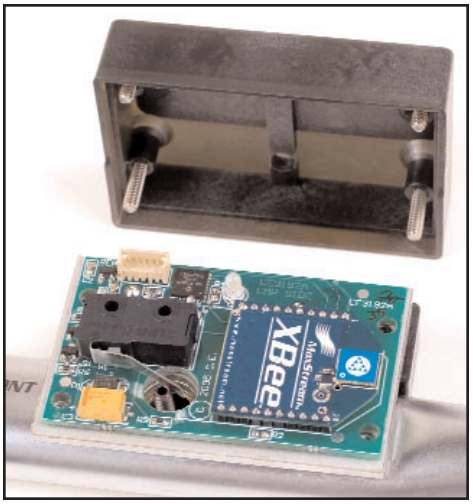
The transceiver on the wrench operates on the 2.4GHz band and has 13 channels. Channel selection is performed through the programming menus on the PTV-FM 2.4GHz unit with which the wrench will be used.

The transceiver operates on a single 6V battery that is in a battery holder inside the transceiver housing. To replace the battery:

1. Use a #1 Phillips screwdriver to completely loosen the four (4) screws on the top of the transceiver housing.



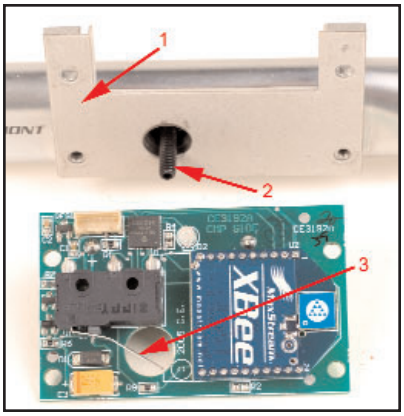
2. Gently remove the top of the transceiver housing to expose the circuit board. Gently remove the bottom of the transceiver housing from the underside of the transceiver board and mounting plate. The mounting plate is welded to the wrench.



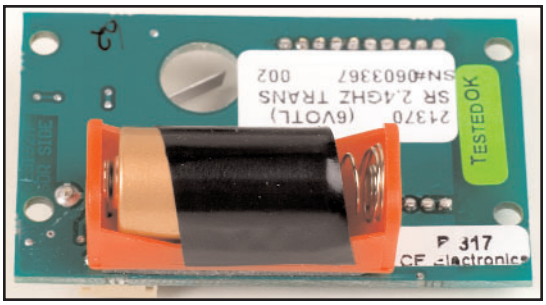
Notice the location of the spring steel trigger on the microswitch. The trigger location is critical to tool function. The screw rising from inside the wrench triggers the microswitch that activates the electronic functions. When the electronics are reassembled the trigger must be on the inside of this screw for the tool to function.

3. Gently lift the circuit board off of the mounting plate. The insulating paper (#1) is essential to preventing short circuits in the circuits. Examine the paper for tears and replace if torn or damaged. The activation stud (#2) moves when the torque wrench cycles (clicks), and moves the microswitch trigger (#3) that activates the electronics.

   These items must all be in good repair and properly engaged for correct torque wrench operation to occur.



4. The battery is located on the back side of the circuit board in a battery holder. The battery is retained in place primarily by spring pressure. This retention is augmented by black electric tape as shown. Torque wrenches are sometimes subjected to shock loads that can cause a temporary disconnection of the battery, such as when the wrench is bumped against an assembly component. The tape prevents disconnection when the wrench is bumped and the force is perpendicular to the spring force.



   Carefully remove the tape from the holder and battery. Slide the battery out of the battery holder. Insert the new battery while maintaining the same battery holder within the battery compartment. Replace the tape, using new tape if necessary.

5. Reassemble the components in the reverse order of their removal. Place the circuit board on the insulating paper on the mounting plate, ensuring that the microswitch trigger is inside the activating screw. Slide the rear of the enclosure over the battery, and place the top of the enclosure on top of the board. Insert the four screws into the four holes. The short screws go in the two holes directly above the wrench; the long screws go into the holes above the rear cover. Use the #1 Phillips screwdriver to tighten the screws only finger tight. Do not overtighten the screws - this will damage the cover and necessitate cover replacement.

SAFETY

- ALWAYS wear safety glasses and all other required safety equipment when operating this tool.
- Do NOT exceed the rated capacity of the wrench.
- Do NOT use this wrench for any purpose other than that for which it was designed and manufactured.

Cleaning

This wrench should be cleaned with a soft cloth dampened with water. Do not immerse this tool in liquid or use any solvent other than water to clean the tool.

Presetting, Calibration and Repair

Factory presetting and calibration from our ISO 17025 Accredited Calibration Laboratory are available. Contact your S/R distributor for details. Parts and factory repair are also available. Speak with your S/R distributor to arrange either.

Additional Information

Additional information is available seven days a week from our website, www.srtorque.com. You can also contact us via phone, facsimile or e-mail using the information on the front of this document.