

P-Series Preset Torque Screwdrivers

P6-2H (810501), P20-2H (810502) and P40-2H (810503)

Sturtevant Richmond preset torque screwdrivers are designed and manufactured to provide consistent user-settable torque in high-cycle assembly or maintenance applications. These tools meet or exceed ASME B107.300-2010 and ISO 6789 specifications of +/- 6% preset value accuracy from 20% to 100% of capacity, and +/- 1.2% of full capacity below 20% of capacity. These tools meet or exceed this requirement in both the clockwise and counter-clockwise directions.

S/R preset torque screwdrivers signal the operator that the torque setting has been attained by emitting a distinct audible and tactile impulse (click"). Preset torque screwdrivers do not have graduations and the torque must be set via use of a torque tester of +/- 1% Indicated Value accuracy or better.



Capacities

810501 – 100 inch-ounces

810502 – 20 inch-pounds

810503 – 40 inch-pounds

Presetting the Torque

Equipment Required: Torque tester accurate to +/- 1% of indicated value or better and 1/8" hex key.

Procedure

- Determine current torque setting on screwdriver by testing.
 - Engage tester drive with screwdriver.
 - Rotate screwdriver three times (3 clicks) in intended direction of operation while noting and recording torque at click impulse.
- Evaluate test data.
 - If screwdriver is preset at desired torque (all clicks are within +/- 6% of desired torque), no further action is required.
 - If screwdriver is above desired torque:
 - Insert hex key into setscrew.
 - Rotate hex key slightly in the counter-clockwise direction.
 - Return to Step 1.
 - If screwdriver is below desired torque:
 - Insert hex key into setscrew.
 - Rotate hex key slightly in the clockwise direction.
 - Return to Step 1.
- If a tamper-resistant seal is required for the setscrew, we recommend use of melted wax in the hex drive portion of the set screw.

Cautions

- Always wear appropriate safety equipment when using any hand tool.
- Only use hand tools for their intended purpose.
- Never exceed the rated capacity of the tool.

Use of Extensions and Adapters

Only in-line extensions and adapters should be used with the screwdriver. The recommended maximum overall extension length is six inches (6").

Operation

1. Insert appropriate fastener engagement device (bit/adaptor/socket) into 1/4" female hex bit holder.
2. Engage fastener and rotate screwdriver until audible/tactile impulse (click) is generated.
3. Stop rotating screwdriver. The preset torque has been reached and further rotation will not increase applied torque.

Care and Cleaning

When the tool is not to be used for an extended period, we recommend that it be set to its lowest setting (20% of capacity) prior to storage. Always store screwdriver in a clean, dry environment. Do not immerse screwdriver in cleaning fluids. Clean exterior of screwdriver with damp cloth.

Service and Calibration

Repair Parts can be ordered through your local S/R distributor. For the name of a local S/R distributor, please contact us using the information on the front of this document. Factory repair and calibration in our ISO/IEC 17025 Accredited Calibration Laboratory can be obtained by sending the screwdriver and your instructions to us at the factory.

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