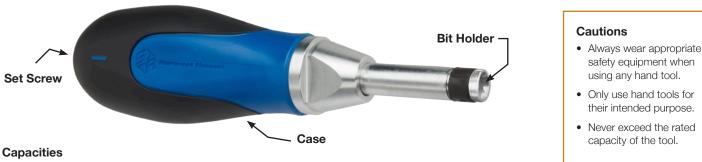


# **P-Series Preset Torque Screwdrivers**

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

Sturtevant Richmont preset torque screwdrivers are designed and manufactured to provide consistent user-settable torque in highcycle 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.



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

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



#### **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/adapter/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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