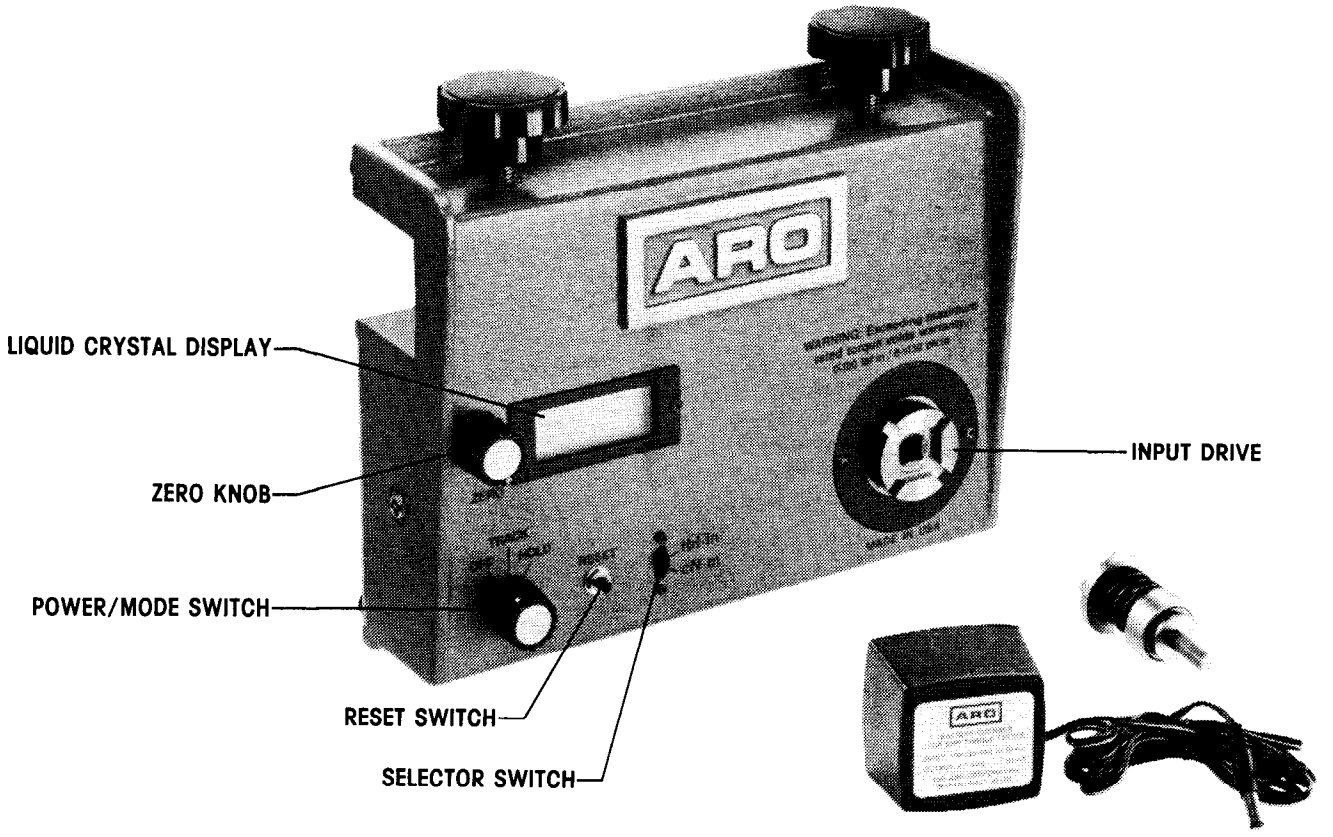
GENERAL DESCRIPTION AND OPERATION

TORQUE TESTER
MODEL 8560

6-1-90

FORM 3602-2



The model 8560 torque tester is designed to provide years of reliable service.

In order to achieve the best results with the tester, this manual should be reviewed before each unit is put into service.

USES

- Calibrating of torque drivers, both hand and power, including impacting and power ratcheting tools.
- Obtaining data for screw thread planning.

FEATURES

- Accuracy of ±0.5% of reading ± one count (± 1% of reading ± one count from 10% to 20% of full scale).
- Range of 100 lbf. in. (1130 cNm).
- Measures both clockwise and counterclockwise rotation.
- Portable (dimensions: 7.25" x 9.25" x 3.0", weight: 6 lbs.).
- Powered by rechargeable battery.

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INSTRUCTIONS

1. Where possible, clamp the tester to a solid base (such as a table top) to avoid damage to the tester and tool or injury to the operator. It is possible to use the tester unclamped for light torque loads if a rough surface (such as heavy carpet) is solidly attached to the working surface.

   NOTE: Clamping with "C" clamps is NOT recommended.

2. Turn the POWER/MODE switch to the TRACK position.

3. Check the LO BAT indicator on the liquid crystal display. When the LO BAT indicator is first visible, about 8 hours of useful operation are left before recharging is necessary. Charging time is 15 hours or less depending on remaining charge. To determine if a unit is unusable due to low charge, turn POWER/MODE switch to HOLD. If torque reading slowly increases or is erratic, unit is unusable until charged.

   NOTE: A battery (especially one with a low charge) may read high immediately after turn on but will drop to a much lower reading during the first 5 minutes. A fully charged battery should give approximately 40 hours of continuous use.

   NOTE: Use only the charger supplied.

4. Set the SELECTOR switch to the appropriate unit of measure (lbf. in. or cNm).

5. With no force on the INPUT DRIVE, adjust the LIQUID CRYSTAL DISPLAY to 000 or 00.0.

   NOTE: Before taking a series of readings, zero the tester as listed below to ensure accurate results:

   5.1 Preload the tester in the direction to be used (clockwise or counterclockwise).

   5.2 Turn the ZERO knob until 000 is first visible. Note the dial position.

   5.3 Turn the ZERO knob in the same direction until the display changes from 000 to 001. Note the dial position.

   5.4 Return the dial halfway between the two dial positions noted.

   5.5 To make measurements in the other direction, repeat steps 5.1 thru 5.4.

6. To read torque continuously as it increases and decreases, turn the POWER/MODE switch to TRACK. To hold the display at the highest torque applied, turn the POWER/MODE switch to HOLD.

   NOTE: When in the HOLD mode, reset the display to 000 with the RESET switch.

7. The tester is supplied with a run down adapter and 2 springs for testing dynamic (power) tools. Use the lighter spring with tools that have a torque range under 20 lbf. in. (226 cNm). Use the heavier spring with tools that have a torque range from 20 to 100 lbf. in. (226 to 1130 cNm).

   NOTE: Other suitable adapters may be made up by the user for special applications.

8. When the tester is not in use, always return the POWER/MODE switch to the OFF position.

CARE

1. To ensure proper readings, periodically check the zero adjustment. Drift of the zero point may occur due to changes in temperature.
2. DO NOT store in humidity adove 85%.
3. DO NOT operate a power tool on the tester without some kind of adapter between the tool and the tester.
4. Keep the exterior clean and dry.
5. DO NOT drop.

WARNING: Exceeding maximum rated torque voids warranty.
0-100 lbf·in / 0-1130 cN·m

SERVICE

Information on parts can be obtained upon request or the tester can be sent to The Aro Corporation for calibration and repair.