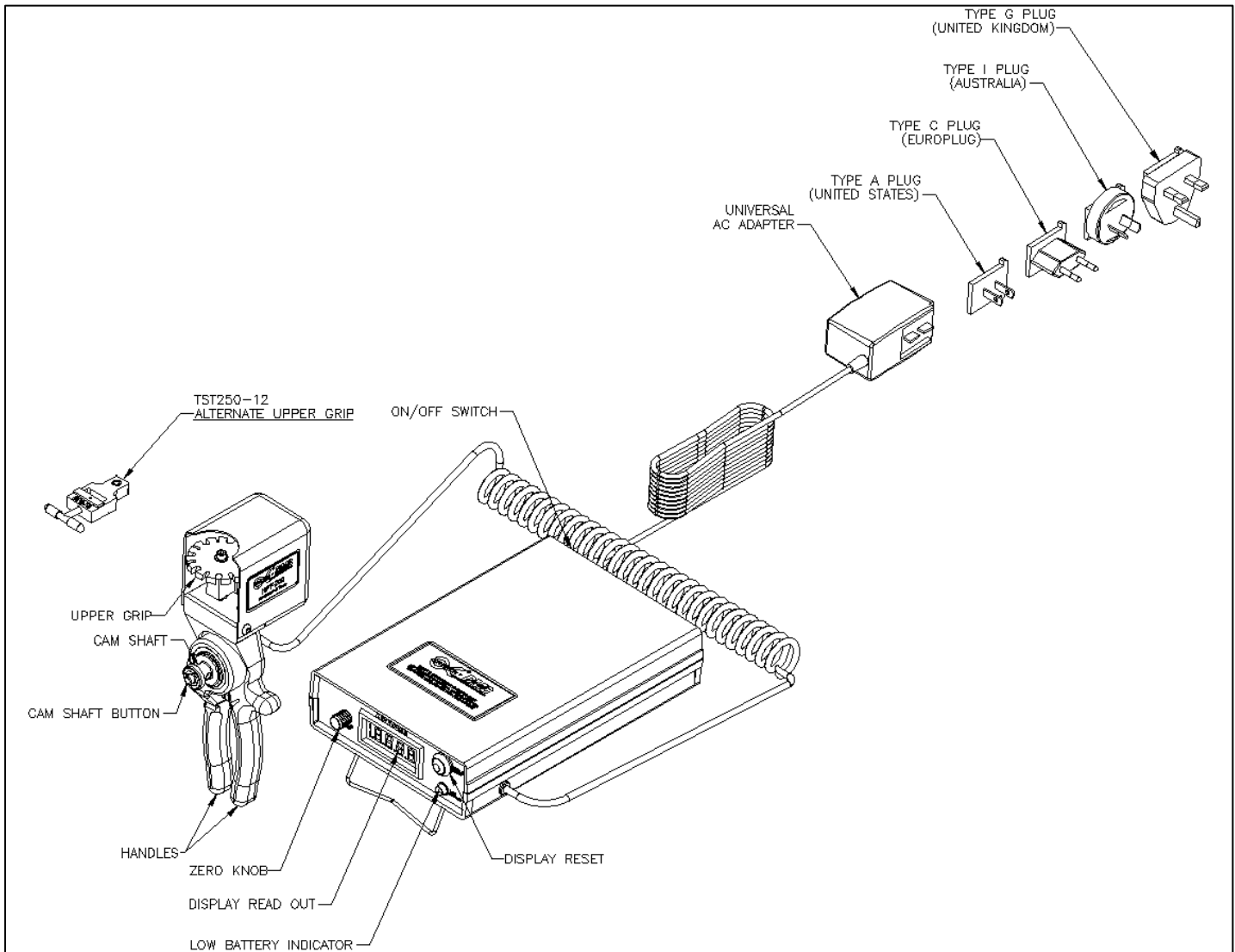


HPT-200

WIRE CRIMP PULL TESTER

DATASHEET



1. DESCRIPTION

The HPT-200 Wire Crimp Pull Tester is a portable tool for making pull type force measurements to terminated wire samples, wherever they are required. It is only recommended for testing tensile requirements up to 200.0lb (889.6N) (90.7Kg).

2. SAFETY

The HPT-200 Wire Crimp Pull Tester is a force measurement device, and operators should wear safety glasses for eye protection because foreign objects can be thrown from the piece under test.

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To prevent fire and shock hazard, do not expose this equipment to moisture. Always unplug the AC line cord prior to servicing.

Do not exceed the rated force capacity of the HPT-200. The unit may be damaged, and the operator, or others in the immediate vicinity could be injured under extreme conditions.

3. SETUP

The HPT-200 is shipped from the factory assembled, calibrated, and tested. For best results, users should familiarize themselves with the setup and operation of the unit before placing it in service.

The HPT-200 is designed for optimal performance and durability. The user should keep in mind, however, that as a load sensing device, the HPT-200 should be handled with care. Dropping either the meter, or handle assembly can cause damage to the unit. Applying excessive force to the load cell, either by exceeding the load limit during a pull test, or by dropping the handle assembly, can cause irreparable damage to the load cell.

4. CHARGING

Charge the unit, using only the AC adaptor supplied. A minimum of 4 hours charging is recommended before use. It is best to unplug the unit after a full charge. **Tests should not be performed while charging the unit.**

When a sufficient amount of energy is expended from the battery, the low battery indicator will illuminate. Accurate testing can still be performed, but charging is recommended. When the voltage output of the battery approaches a level where incorrect readings are possible, the unit will automatically shut off.

It is recommended that the unit be unplugged when fully charged, and not in use.

5. OPERATION

Turn the meter on and the display read out will illuminate indicating that the unit is operational. Allow 15 minutes warm up prior to operating the unit.

Zero the display by turning the zero knob fully counter clockwise. Momentarily press the display reset button, then slowly turn the zero knob until the display reads -000.0 or 000.0. Momentarily press the display reset button to ensure the display holds -000.0 or 000.0.

Rotate the upper grip and find a slot that is the same width as the wire diameter, or one increment larger. Depress the cam shaft button, located on the center of the handles, and insert the end of the wire sample in hole located in the cam shaft. Release the cam shaft button. For best results, wrap the wire at least one full clockwise turn around the cam shaft. Insert the wire/terminal lead in the pre-selected slot on the upper grip. Begin to compress and release the handles slowly.

After the wire has separated from the termination, the tensile force required for the break can be read directly from the display read out. Remove any spent parts from the upper grip assembly, and depress the button on the cam shaft to remove the wire.

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6. FUNCTIONAL CHECK

The HPT-200 Wire Crimp Pull Tester is factory calibrated with equipment traceable to the National Institute of Standards and Technology (NIST). We recommend recalibrating the unit at intervals not exceeding one year in duration.

The functional check is executed using the R-cal switch built into the unit. The R-cal switch is located on the back of the unit, and its R-cal value is recorded on the units Certificate of Calibration.

A functional check can be performed at any time:

- a. Fully charge the unit.
- b. Remove the unit from the charger.
- c. Turn the unit on.
- d. Allow the unit to warm up for 15 minutes.
- e. Momentarily press the reset button.
- f. Zero the display by turning the zero knob fully counter clockwise. Momentarily press the reset button. Turn the knob clockwise until the display reads -000.0 or 000.0.
- g. Press the R-cal button on the back of the unit. Read the displayed value. Momentarily press the reset button to zero the display. Repeat this process several times to assure a repeatable value. The display value should be within $\pm 0.5\%$ of the value recorded on the C of C.

EXAMPLE:

R-cal = 140.0lb

Tolerance = $140.0 \times .005 = 0.7$

Range = $140 \pm 0.7 = 139.3 - 140.7$

- h. If any of the procedures in steps e thru g do not produce expected results, the unit should be returned to the factory for repair and recalibration.

7. SERVICE

Repair and calibration services for the HPT-200 Wire Crimp Pull Tester are available from the factory. Spare parts are also available.

Should it be necessary to return the unit for service, please ship to the address on this bulletin, freight prepaid. Enclose a letter, or purchase order with company name, address, phone number, the individual to be contacted, and the reason for return.

DMC offers complete refurbishing and recalibration services.

DMC specially engineers and manufactures complete tool kits to satisfy individual customer requirements, such as total aircraft support general shop maintenance or production, on board ship and vehicle service, etc.

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Limitation of Liability

DANIELS MANUFACTURING CORPORATION IS NOT LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY NATURE OR KIND RESULTING FROM THE USE, OR MISUSE, OF ANY OF ITS PRODUCTS. OWNERS AND USERS OF DMC PRODUCTS ASSUME FULL RESPONSIBILITY FOR INSTRUCTING THEIR EMPLOYEES IN THE PROPER AND SAFE USE OF SUCH PRODUCTS.

Limited Warranty

DMC (Daniels Manufacturing Corporation) warrants each new product sold by it to be free from defects in material and workmanship under normal use and service. DMC's obligation under this warranty is limited to the free correction or, at DMC's option, the refund of the purchase price of any such product which proves defective in normal service within ninety (90) days after delivery to the first user, provided that the product is returned to DMC with all transportation charges prepaid and which shall appear to DMC's satisfaction, after DMC's inspection, to have been defective in material and workmanship, it being understood that DMC products are not consumer products. This warranty shall not cover any damage to any product which, in the opinion of DMC, was caused by normal wear, misuse, improper operation, tampering, neglect or accident. This warranty is in lieu of all other warranties express or implied. No warranty, express or implied, is made or authorized to be made or assumed with respect to products of Daniels Manufacturing Corporation other than those herein set forth.

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