

# PT-150HA WIRE CRIMP PULL TESTER

## 1. SAFETY

The Alphatron PT-150HA 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.

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 (150 lb., 68 kg) of the PT-150HA. The unit may be damaged, and the operator or others in the immediate vicinity injured under extreme force conditions.

## 2. SETUP

The Alphatron PT-150HA 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.

To operate, set the PT-150HA on a flat, level surface in a horizontal position. To prevent damage to the force sensing device, handle the unit by the base plate only. Six mounting holes in the base are provided to permanently bolt it in position, if desired. NOTE: The rubber feet in the base plate need to be removed if permanent mounting is desired.

## 3. OPERATION

With the power switch on the left side of the unit turned off, plug the PT-150HA into a 115VAC or appropriate outlet. Press the rocker switch to the "ON" position. The display will light up and display the message "PT-150HA VERSION x". The display will then change to 0.0 in the selected units. If the display reads anything other than 0.0, press the "ZERO" Button.

Select the proper size slot, and place the crimped terminal end of the wire sample into the rear slotted grip so that the wire passes thru, but the terminal is captivated. Use the lever on the forward self tightening grip to open it. Then place the free end of the wire between the cam wheels, and release the lever, so that the wire is gripped.

Pull the operating lever forward in a slow and consistent motion. The display will begin showing the amount of force exerted on the crimp. As the force is increased the display will continue to update the reading until the force is no longer increasing. (Usually this is the point at which the crimp is pulled loose, or the wire breaks.) If you reach 150lb and the crimp has not yet failed do not apply more force to the handle. Do not test crimps that require more than 150lb test load.

Upon completion of the test, release the wire and press the "RESET" button on the top of the unit prior to the next test. If after pressing "RESET" the display still shows something other than 0.0, press the "ZERO" button.

Best results are obtained with the PT-150HA using a slow, consistent motion when pulling the lever. A quick, or hesitant motion can cause the wire to slip within the forward cams and the terminal also may become unseated from within the slots of the rear grip.

## 4. SERVICE

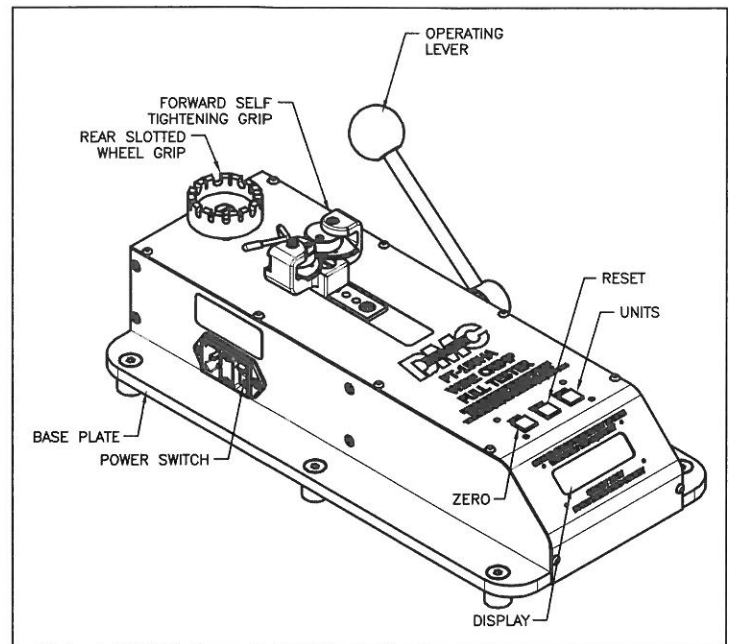
Repair and calibration services for the PT-150HA wire crimp pull tester are available from Daniels Manufacturing Corporation.

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

## 5. CHANGING DISPLAY UNITS

The PT-150HA is capable of making measurements in any of the following units: Pounds (lb), Kilograms (Kg), Newtons (N). To change the units displayed, press the "UNITS" button on top of the unit. The operator can cycle through the units before or after testing.

## PT-150HA



**DO NOT EXCEED THE RATED  
FORCE OF 150 lb**

## 6. LEFT SIDE PANEL

**FUSE** – If the fuse requires replacement, install a .3A 125/250V slow blow fuse. The fuse compartment is located on the left side of the unit and labeled as FUSE.

**ON/OFF** – Depress the rocker switch in order to turn the unit ON or OFF.

**AC POWER** – Insert the proper end of the supplied power cord into the receptacle.

## 7. CARE OF TOOL

We strongly recommend that you:

1. DO NOT immerse tools in cleaning solution.
2. DO NOT spray oil into tool to lubricate.
3. DO NOT attempt to disassemble the tool or make repairs.

This is a precision test unit and should be handled as such.

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 and vehicle service, etc..

## 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 or 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.