

Contact Retention Test Tools



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Typical application showing tool testing pin contacts.

The quality assurance test most often overlooked is retention (proper seating of contacts). This important test can now be performed simply and in a matter of seconds with the DMC retention testing tools.

These tools are for checking the retention of pins and sockets in electrical connectors. The tester pin and socket tips are aluminum. All tips are replaceable. A nylon hand protector is provided with each tool. The tools can be preset at the factory to your request.

Insert tester into or over a contact so that the tester and contact are in a straight line. Hold in this position throughout the test. Use pin end with a socket contact and the socket end with a pin contact.

Apply pressure to tester until the indicator band is covered by the slide. If contact is still firmly retained, the retention is satisfactory.

TOOL PART NUMBER	RANGE POUNDS
HT250-1	1.5 THRU 3.0
HT250-2	3.2 THRU 5.5
HT250-3	4.0 THRU 8.0
HT250-4	7.0 THRU 18.0
HT250-5	17.0 THRU 25.0
HT250-6	24.0 THRU 40.0

Notice: The above part numbers apply to retention tools only (less tips). All tips must be purchased under separate part number.

RETENTION TESTER					
CONTACT SIZE	COLOR CODE	SOCKET TESTER (M)*	PIN TESTER (M)*	SOCKET TESTER (P)**	PIN TESTER (P)**
12	Yellow	67-012-01	68-012-01	67-012-01P	68-012-01P
16	Blue	67-016-01	68-016-01	67-016-01P	68-016-01P
20	Red	67-020-01	68-020-01	67-020-01P	68-020-01P
22, 22M, 22D	Brown	67-022-01	68-022-01	67-022-01P	68-022-01P
23	Black	67-023-01	68-023-01	67-023-01P	68-023-01P

***(M) All Metal Tips **(P) All, or Part Plastic Tips**



NOTE: Retention test tools are to be used as a simple indicator to verify contact locking. Retention testing to MIL-STD-1344 (method 2007.1) will require different test equipment. For additional information, please consult Daniels Manufacturing Corporation.

HT-250-X Contact Retention Test Tools for Power Contacts

The quality assurance test most often overlooked is contact retention (proper seating of power contacts). This important test can now be performed simply and in a matter of seconds with the DMC retention testing tools for power contacts.

These tools are for checking the retention of pins and sockets in electrical connectors. The tester pin and socket tips are aluminum. All tips are replaceable. A nylon hand protector is provided with each tool. The tools can be preset at the factory to your request.



Insert tester into or over a contact so that the tester and contact are in a straight line. Hold in this position throughout the test. Use pin end with a socket contact and the socket end with a pin contact.

Apply pressure to tester until the indicator band is covered by the slide. If contact is still firmly retained, the retention is satisfactory.



<i>RETENTION TESTERS</i>	
<i>TOOL PART NUMBER</i>	<i>RANGE POUNDS</i>
HT250-1	1.5 THRU 3.0
HT250-2	3.2 THRU 5.5
HT250-3	4.0 THRU 8.0
HT250-4	7.0 THRU 18.0
HT250-5	17.0 THRU 25.0

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HT250-6	24.0 THRU 40.0
Notice: The above part numbers apply to retention tools only (less tips). All tips must be purchased under separate part number.	

RETENTION TESTER TIPS			
CONTACT SIZE	COLOR CODE	SOCKET TESTER	PIN TESTER
8	Red	67-008-01	68-008-01
12	Yellow	67-012-01	68-012-01
16	Blue	67-016-01	68-016-01
20	Red	67-020-01	68-020-01
22, 22M, 22D	Brown	67-022-01	68-022-01
23	Black	67-023-01	68-023-01
24	Gold	67-024-01	68-024-01
26	Green	67-026-01	68-026-01
NOTE: Not for use with Coax or Triax contacts.			

CONTACT RETENTION TEST TOOL CALIBRATION EQUIPMENT

The **RTCG-75** Retention Tester Calibration Gage is supplied to support in-house calibration of DMC HT250 Series Retention Testers. It incorporates the latest Alphasatron® digital test technology, and is self-contained and portable.



The tester is supplied in a protective case with calibration certificate to NIST (accuracy 0.5% full scale to 75 pounds force).

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