

**MIL-DTL-38999 Series III Type  
Insertion and extraction tools and retention tester**

**CONTACT INSERTION AND EXTRACTION TOOLS**



Size	Type	Part Number	Military Part Number	Daniels Part Number
#23	Insertion/Extraction	(None)	M81969/1-05	(None)
#23	Insertion/Extraction	(None)	M81969/16-04	(None)
#22	Insertion/Extraction	<b>859-163</b>	M81969/14-01	(None)
#20	Insertion/Extraction	<b>809-207</b>	M81969/14-10	(None)
#16	Insertion/Extraction	<b>809-131</b>	M81969/14-03	(None)
#12	Insertion/Extraction	<b>809-132</b>	M81969/14-04	(None)
#8	Insertion Only	(None)	M81969/14-06	(None)
#8	Extraction Only	<b>859-049</b>	M81969/14-12	(None)
#8	Insertion Only	(None)	M81969/8-13	(None)

**CONTACT RETENTION TESTER FOR SUPERNINE CONTACTS**



Size 23 contact retention tester shown

Check for properly seated contacts with this spring-loaded tester. Apply the tool tip to the mating end of a contact. Push on the handle until the spring compresses to the recommended force. A visual indicator shows full compression. The contact is

properly retained if it is not displaced. Pin tips are used with pin contacts. Socket tips are used with socket contacts. Complete kit options available, or order the tips and handles separately.

Description	Part Number	Daniels PN
#23 Handle	<b>809-107-1</b>	HT250-2
#23 Pin Tip	<b>809-107-2</b>	68-023-01
#23 Socket Tip	<b>809-107-3</b>	67-023-01
Complete Kit	<b>809-107-4</b>	(None)
#22 Handle	<b>859-116-H4</b>	HT250-4
#22 Pin Tip	<b>859-116-22P</b>	68-022-01
#22 Socket Tip	<b>859-116-22S</b>	67-022-01
Complete Kit	<b>859-252-22H4</b>	(None)
#20 Handle	<b>809-370-1</b>	HT250-4
#20 Pin Tip	<b>809-370-2</b>	68-020-01
#20 Socket Tip	<b>809-370-3</b>	67-020-01
Complete Kit	<b>809-370-4</b>	(None)
#16 Handle	<b>809-371-1</b>	HT250-4
#16 Pin Tip	<b>809-371-2</b>	68-016-01
#16 Socket Tip	<b>809-371-3</b>	67-016-01
Complete Kit	<b>809-371-4</b>	(None)
#12 Handle	<b>809-372-1</b>	HT250-4
#12 Pin Tip	<b>809-372-2</b>	68-012-01
#12 Socket Tip	<b>809-372-3</b>	67-012-01
Complete Kit	<b>809-372-4</b>	(None)