SNC MANUFACTURING CO., INC.

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INSTRUCTION GUIDE

Personal Grounds Tester

MODEL P81005

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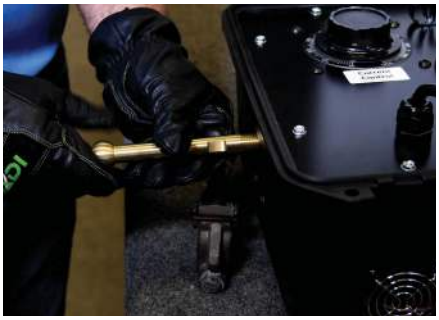
1. Make sure the Current Control dial is turned fully counterclockwise to zero.

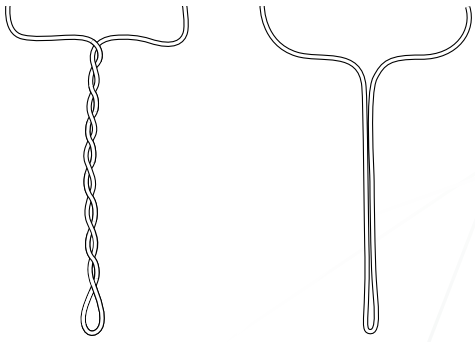
2. Install the test probes into the threaded terminals on each side of the unit.



3. Plug the power cord into a 120v, AC outlet, rated at 20 AMP or higher.

4. Measure the grounding jumper. For lengths not shown on the chart (in lid of unit), round to the nearest length.

5. Layout the grounding jumper in one of the manners below.



6. Attach the grounding assembly to the test probes, making sure the clamps are properly tightened.

7. Prior to testing, ensure the Voltage Drop and Continuous Current meters read zero (0). Turn the power switch to the on position (the red LED light will be illuminated).

8. Determine the allowed voltage based on the cable length using the chart provided inside the lid of the unit. See page 4 for details.

9 Slowly turn the Current Control dial clockwise until the Continuous Current reading reaches the conductor size rating.

10 Note the voltage on the Voltage Drop meter. Compare this reading to the chart (in lid of unit) for the length being tested.

11 Voltage Drop readings equal to or less than for the cable specs on the chart indicate that the ground cable assembly is good.

12 Before removing clamps, turn the Current Control dial counterclockwise, to zero.

13 Failed assemblies must be disassembled for inspection, cleaning, tightening and/or component replacement. If the grounding jumper fails the retest after maintenance is performed, it should be removed from service and disposed of to prevent further use.

WARNING: If the duty cycle is exceeded, the unit will automatically shut down and not restart until the transformers cool down. Consistently exceeding the duty cycle may result in damage to the Personal Grounds Tester.

SNC Manufacturing has built this unit based on ASTM F2249-03 guidelines. All units will be calibrated at the time of manufacture and SNC recommends annual calibration.

Always use in accordance with your company practices and procedures.

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UTILITY PRO PRODUCTS

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Cable Size and Applied Amperage				
Cable Length (Feet)	#2	1/0	2/0	4/0
	165 A	**250 A**	**300 A**	**400 A**
4.00	0.18	0.22	0.24	0.28
4.50	0.20	0.24	0.26	0.30
5.00	0.21	0.25	0.27	0.31
5.50	0.22	0.26	0.28	0.32
6.00	0.24	0.28	0.30	0.34
6.50	0.25	0.29	0.31	0.35
7.00	0.26	0.30	0.32	0.36
7.50	0.28	0.32	0.34	0.37
8.00	0.29	0.33	0.35	0.39
8.50	0.31	0.34	0.36	0.40
9.00	0.32	0.36	0.38	0.41
9.50	0.33	0.37	0.39	0.42
10.00	0.35	0.38	0.40	0.44
11	0.37	0.41	0.43	0.46
12	0.40	0.44	0.46	0.49
13	0.43	0.47	0.49	0.51
14	0.46	0.49	0.51	0.54
15	0.48	0.52	0.54	0.57
16	0.51	0.55	0.57	0.59
17	0.54	0.58	0.59	0.62
18	0.57	0.60	0.62	0.64
19	0.60	0.63	0.65	0.67
20	0.62	0.66	0.67	0.69
22	0.68	0.71	0.73	0.74
24	0.73	0.77	0.78	0.80
26	0.79	0.82	0.84	0.85
28	0.84	0.88	0.89	0.90
30	0.90	0.93	0.94	0.95
32	0.96	0.99	1.00	1.00
34	1.01	1.04	1.05	1.05
36	1.07	1.10	1.11	1.10
38	1.12	1.15	1.16	1.15
40	1.18	1.21	1.21	1.20
42	1.23	1.26	0.13	1.26
44	0.13	1.32	1.32	1.31
46	1.34	1.37	1.38	1.36
48	1.4	1.43	1.43	1.41
50	1.46	1.48	1.48	1.46
55	1.59	1.62	1.62	1.59
60	1.73	1.76	1.75	1.72
65	1.87	1.89	1.89	1.84
70	2.01	2.03	2.03	1.97
75	2.15	2.17	2.16	2.1
80	2.29	2.31	2.3	2.23
85	2.43	2.44	2.43	2.36
90	2.57	2.58	2.57	2.48
95	2.71	2.72	2.7	2.61
100	2.85	2.86	2.84	2.74