APP
Anderson Power Products®
An IDEAL Company

SB® Environmental Boot

Assembly Instructions

Instructions for part numbers:

	Cover	No Cover
SB® 50 Boot, Source	3-6055P2	3-6055P1
SB® 50 Boot, Load	3-6054P2	3-6054P1
SB® 120 Boot, Source	3-6034P1	-
SB® 120 Boot, Load	3-6035P1	-
SB® 175 Boot, Source	3-6036P1	-
SB® 175 Boot, Load	3-6037P1	-

1. Cut legs to accommodate the outer diameter (OD) of the wire. (See Figure 1)
NOTE: Wire ODs will vary depending upon the wire type. Start cutting a little at a time until the appropriate size hole is exposed. (There should be some resistance as the wires slide through the legs)
NOTE: Both AWG and mm² sizes are referenced.

2. If necessary, lubricate individual wires using Isoprophy alcohol. **Warning:** Dry thoroughly before energizing the circuit. Follow all cautions on the lubricant container.

3. Slide the positive wire through the + side of the boot and the negative wire through the – side of the boot, starting from the bottom. (See Figure 2)

4. Strip the Wire:

Connector Series	Inches	mm
SB® 50	9/16”	14 mm
SB® 120	15/16”	24 mm
SB® 175[1]	1-1/8”	29 mm

[1]Except when using contact# 1348: 7/8” [23mm]

5. Crimp or Solder the Contacts

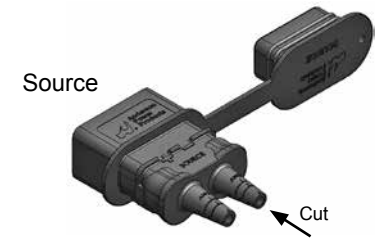
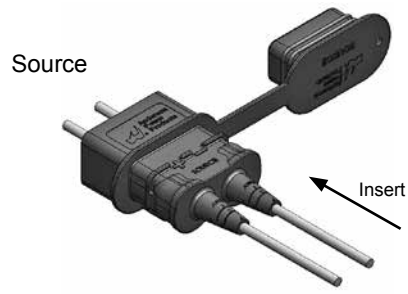


Figure 1



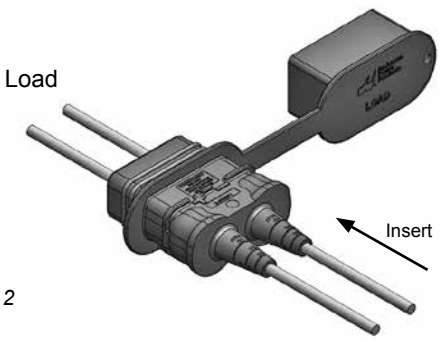


Figure 2

Recommended Soldering Techniques

Use rosin flux solder only. Wrap cable strands. Melt solder into well, heat and insert stripped cable. Continue heating well until solder flows into wire, being careful not to over flow onto contact surface. Do not solder-dip contacts.

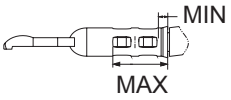
Recommended Crimping Techniques

PLEASE CONSULT YOUR AUTHORIZED ANDERSON REPRESENTATIVE FOR RECOMMENDED TERMINATION TOOLING

Connector Series	AWG	mm²	Portable Tool	Pneumatic Bench Tool
SB® 50	16 - 6	1.3 - 13.3	1309G4	1387G1
SB® 120	10 - 1	5.3 - 42.4	1368	or
SB® 175	12 - 1/0	3.3 - 53.5		1387G2

NOTES:
a. Ensure crimps are positioned on crimp barrels as shown. (See image below).
b. Use appropriate reducing bushings for smaller cable sizes.
c. Pneumatic bench tools require specific die and locators for each contact being crimped, see APP® website Pneumatic Tooling Chart.
d. For high volume crimping (reeled contacts), see APP® website Press / Applicator Tooling Chart.

Connector Series	Minimum inches	mm	Maximum inches	mm
SB® 50	0.25	6.35	N/A, Single	
SB® 120	0.38	9.65	N/A, Single	
SB® 175	0.25	6.35	0.81	20.57²



²Except when using contact# 1348: Single Crimp Only at 0.38" minimum

Contact Well Reducing Bushing

Connector Series	AWG	Catalog Part Number
SB® 50	6 - 8	5912
	6 - 10 & 12	5910
	6 - 14 & 16	5913
SB® 120	2 - 4	5919
	2 - 6	5920
	2 - 8	5921
SB® 175	1/0 - 1	5687
	1/0 - 2	5690
	1/0 - 4	5693
	1/0 - 6	5663
	1/0 - 10	5648

e. If additional information is needed reference assembly instructions 1S1030A.

6. Align the positive & negative symbols on the SB Boot with the positive & negative symbols the SB housing. (See Figure 3)

7. Assemble the SB® connector:
   a. Observing proper polarity relative to markings on the connector housing, place contacts in the housing with notched side of the tongue next to the spring.
   b. Push contacts and cable into housing until the notched tongue snaps over the end of the spring.
   c. If additional information is needed reference assembly instructions 1S1030A.

8. Slide the connector into the boot by pushing on the connector. (See Figure 4)
   CAUTION: Do not slide the connector by pulling on the wires. This may stress the wires and/or crimps.
   NOTE: The boot is keyed and will only go in one way.
   NOTE: When fully seated, the source connector will be slightly below the top of the boot (See Figure 5A) and the load connector will be slightly above the top of the boot (See Figure 5B).

9. Gently pull on the wire to remove excess slack.

10. Assembly is complete.

For Surface Mounting

SB® Environmental Boots can be mounted to a surface by using such items as a hose clamp, hanger strap, cable tie or any other mounting method you have tested in your specific application.

NOTE: It is the responsibility of the customer to qualify the mounting method for each specific application prior to implementation.

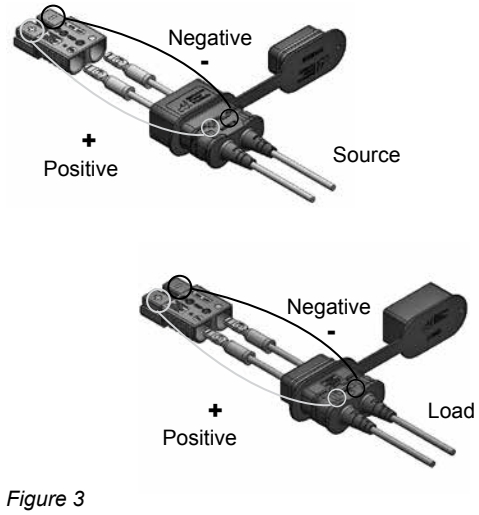


Figure 3

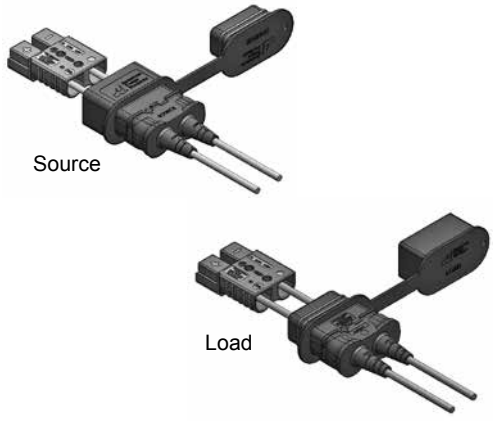


Figure 4

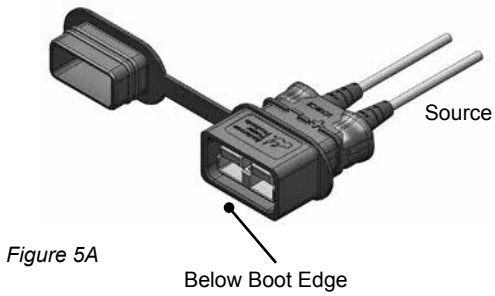


Figure 5A

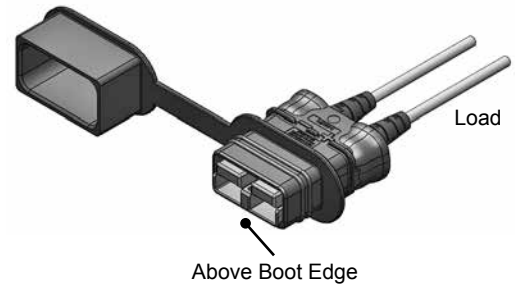


Figure 5B

WARNING: NEVER WORK WITH LIVE CONDUCTORS

HEADQUARTERS: Anderson Power Products®, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA T:978-422-3600 F:978-422-0128 • **EUROPE:** Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 520203 • **ASIA / PACIFIC:** IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T:+(852) 2636 0836 F:+(852) 2635 9036 • **CHINA:** IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou Western Industrial Park, Songgang Baoan District, Shenzhen, PR. China 518105 T: +(86) 755 2768 2118 F: +(86) 755 2768 2218 • **TAIWAN:** IDEAL Anderson Asia Pacific Ltd., Taiwan Branch, 4F.-2, No.116, Dadun 20th St., Situn District, Taichung City 407, Taiwan (R.O.C.) T: +(886) 4 2310 6451 F:+(886) 4 2310 6460 • **www.andersonpower.com**

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Anderson Power Products:

3-6054P1 3-6037P1