



# HB-SBS

## Scorpion Solid-State Electronic Blasting Machine & Non-Electric Initiator

HB-SBS	Electric Initiator	Non-Electric Initiator
Size	3"W x 2"D x 6"H (7.6cm W x 5.0cm D x 15.2cm H)	
Weight	1 lb. 7 oz. (0.654kg)	
Color & Hardware	Black Case with Black Hardware	
Case Features	Waterproof. Resistant to impact, sand, dust, oils and tampering. Recessed switching for switch protection and safety. 1-step easy access waterproof battery compartment for quick field replacement.	
Power Source	One 9V Alkaline Battery	
Operating Temp	-20° F to 140° F	
Storage Temp	-45° F to 180° F	
Output Voltage	225 VDC	2500 VDC
Output Energy	4.0 Joules	0.5 Joules
Firing Capacity	135 Ohm Blasting Circuit*	1 Non-Electric Shock Tube
Connection	2 Heavy-Duty Binding Posts	1 Shock Tube Connector (STC), replaceable
Ready Indicator	High-Intensity LED	N/A
Charge/Fire Cycle	2.0 Seconds	1.0 Second

\* Circuit requiring 1.5A and 2mJ/Ohm for initiation



### Electric Initiator

**To Test:** Always check blasting circuit with appropriate for blasting test device prior to connecting to Blasting Machine. Before connecting to blasting circuit, depress 'CHARGE' switch until 'READY' light illuminates. While maintaining pressure on 'CHARGE' switch depress 'DETONATE' switch. 'READY' light should extinguish immediately.

**Caution:** Do NOT relax 'CHARGE' switch when depressing 'DETONATE' switch. The dual switch firing circuit assures the blaster's intent to initiate.

When 'READY' light fails to illuminate within 5 seconds, replace the Heavy Duty Alkaline 9V battery accessible through the battery cap located on the right side of the unit. Make note to insure proper polarity when replacing battery.

**To Fire:** Connect Blasting Machine to blasting circuit and repeat 'CHARGE' AND 'DETONATE' sequence as in 'To Test.'

### Non-Electric Initiator

DO NOT connect tubing until ready to initiate. Thread the Non-Electric tubing through the lanyard hole located in the middle center of the STC (Shock Tube Connector). Then, loop tubing upward and insert tubing into the top-center neck of the STC. Insert tubing until it firmly seats over and completely envelops the STC electrode. DO NOT attempt to initiate the Non-Electric tubing if the STC electrode is not inserted fully into the tubing. Lift the protective lid to the STC socket located between the Electric output terminals. Insert the STC into the STC socket.

**To Fire:** When prepared to initiate depress and hold the Non-Electric Initiator pushbutton located on the right sidewall of the HB-SBS for approximately 1-2 seconds. Upon release of the Non-Electric Initiator pushbutton the HB-SBS will fire.

**To Abort:** While maintaining pressure on the Non-Electric Initiator pushbutton, remove the STC from the STC socket. Once the STC is fully removed, release pressure on the Non-Electric Initiator pushbutton. With the STC removed, the HB-SBS will dissipate its firing energy internally and render itself safe.

NEVER use the HB-SBS as an alternate energy source on equipment for which it was not designed.

Never use a damaged or questionable machine. EIT Corporation repairs all units which it produces.

Output oscillographs are recorded for every machine. If you need a copy of these test traces please contact EIT Corporation.