



## HB-455

### Scorpion Solid-State Electronic Fire Controlled Blasting Machine

MECHANICAL			
Case Material	Urethane Plastic		
Case Size	3"W x 5.25"L x 1.7"D		
Weight	Approximately 16 oz.		
Case Color	Black		
Hardware	HD Black Nylon Plastic & Brass, SS 'D' Rings, Quick-Connect Binding Posts, Neck Strap		
Switch Guard	Protected Recessed Pushbutton		
Waterproof	Yes. Sealed Electronics		
ELECTRICAL			
Min Firing Voltage	450 VDC		
Min Firing Energy	5 Joules		
Energy Storage	450 VDC 68 uF Electrolytic		
Charge/Fire Cycle Time	Approximately 3 seconds (peak)		
Ready Indicator	High Intensity Green LED		
Fire Control	Intelligent Design / Range Specific		
FIRE CONTROL			
F/C Resistance Range	LED Indication	Min. Amperage	Fire Circuit
0 - 135 Ohms	Green	3.3 Amps	Released
136 - 205 Ohms	Amber	2.2 Amps	Released
206+ Ohms	Red	N/A	Locked
LED Indicator	High Intensity Tri-Color LED		
POWER SOURCE			
Powered by	Alkaline Heavy Duty 9V		
Polarity	Indicated if wrong by Red Blinking LED		
Waterproof	Yes		
Compartment Cover	1 Step Easy-on Easy-off. No tools required.		



neck strap standard

#### To Test:

Always check blasting circuit with an 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 'FIRE' switch. 'READY' light should extinguish immediately.

**Caution:** Do NOT relax 'CHARGE' switch when depressing 'FIRE' 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.

#### Fire Control:

Connect the blasting circuit to the output terminals located on the top of the machine. The HB-455 will check the resistance level of the attached blasting circuit and indicate the condition of the circuit by the 'LINE' light; conditions listed above. The HB-455 will operate in the Green and Amber conditions, but operation will be locked out if the resistance is found to be above the condition listed for the Red 'Line' condition.

#### To Fire:

Repeat 'CHARGE' and 'FIRE' sequence as in 'To Test.'

NEVER use the HB-455 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.