

MD82 Owner's Manual



Asheville, North Carolina
www.dukepro.com
866-587-3853

To Fire Electric Caps:

- Step 1.** Make sure electric terminals on the tip are over the 2 bumps (to the right of the front label) on the main body of the case. If not, unscrew the 4-40 thumb screw on top and rotate the tip 180 degrees and replace it.
- Step 2.** Attach lead lines to each of the terminal blocks by pressing the plastic buttons on the top of the tip and inserting each wire in the channel. (Tip: form a U in the end of the wire and slide it into the channel.)
- Step 3.** Press and hold the ARM button. A green LED indicates battery is above 80% of it's rated voltage. (When it fails to illuminate the batteries need replacement.)
- Step 4.** When red LED illuminates, this indicates the proper voltage has been reached and the LWDD is ready to fire. While maintaining the ARM button in the depressed state, press the FIRE button. Automatic hold-in controls will keep the fire circuit active during the discharge phase until the capacitor has discharged.

To Fire Shock Tube:

- Step 1.** Make sure the shock tube fitting on the tip is over the 2 bumps (to the right of the front label) on the main body. If not, unscrew the 4-40 thumb screw on top and rotate the tip 180 degrees and resecure tip
- Step 2.** Load shock tube by pushing it into the pneumatic opening. To remove the shock tube **push down on the release ring and gently** pull the shock tube out.
- Step 3.** Press and hold the ARM button. A green LED indicates battery is above 80% of it's rated voltage. (When it fails to illuminate the batteries need replacement.)
- Step 4.** When red LED illuminates, this indicates the proper voltage has been reached and the unit is ready to fire. While maintaining the ARM button in the depressed state, press the FIRE button. Automatic hold in controls will keep the fire circuit active during the discharge phase until the capacitor has discharged. It is not necessary to hold the Charge and Fire Button in a depressed state.

TO ABORT THE SHOT:

Release the ARM switch *without* pressing the FIRE switch. The high voltage will be discharged internally.

BATTERY REPLACEMENT:

To replace the battery remove the battery screw on the bottom cover. Most coins will fit the slot. Remove the two 123 cells and replace. Be sure to observe the proper polarity – the **positive** end of each battery should be **inserted first**. Replace the battery screw to a snug fit.

MAINTENANCE

- During normal usage, no maintenance is required except for battery replacement.
- Fire the shock tube adapter occasionally to clear out any residue or debris.
- Each shock tube igniter block should last approximately 2,000 shots.
- Case may be cleaned with water or a damp cloth.
- ➔ **TECH TIP:** Improperly shipped or stored shock tube can have 'dead' spots that will not easily fire. Always store a roll of shock tube on its side!

Caution: High speed particles may be ejected from shock tube tip when firing. NEVER look directly into the tip when test firing eye damage may be incurred.



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MD82 Specifications

Size	: 4.5" x 1.0" x 1.5"
Weight	: 0.370 lbs or 167 grams
Power Requirements	: Two CR123A Lithium 3 volt batteries
Charge Time	: 3~5 seconds
Output Firing Pulse Energy	: 375 Volts @ 10 joules
Blasting Cap Capacity	: 80 standard 2-ohm electric caps
Shots per Battery Set	: 250
Shots per Ceramic Block Assembly	: 2,000 (typical)
Color	: Desert Tan
Temperature Range	: -20°C ~ +85°C (electric output) -10°C ~ +85°C (shock tube output)

MD82 is the Duke Pro, Inc internal model reference designation for the LWDD.

Replacement ceramic blocks are available from Duke Pro.

See www.dukepro.com or call us toll-free at 1-866-587-3853 (1-TOOL-UP-DUKE) for pricing. Outside the U.S. call +1-828-683-6022.