

# ODA ENTERPRISES

## 10Q/CD

### INTRODUCTION

The **10Q/CD** is ideally suited for firing fronts. However, any combination of single or multiple series Electric Matches (EM) may be fired.

The unit uses 1 alkaline 'C' cell which powers both the continuity test and CD power source. This CD power source increases the voltage to 300 volts (rated at 8.7 joules).

### DESCRIPTION

The **10Q/CD** is housed in a 4.33" X 6.89" X 1.6" ABS case with aluminum faceplate. It contains the following:

- o Keylock switch with LED (Main Power)
- o ON/OFF switch
- o OFF/FIRE switch with ready light (16 Amp)
- o MODE switch (ARM/TEST)
- o Push to test button with LED
- o A rotary selector switch (1 - 10)
- o DB25 connector

### PROCEDURE

The **10Q/CD** unit requires 1 'C' cell (alkaline recommended, as well as using a fresh battery before each shoot). Battery holder is accessed by removing three screws on top cover and lifting cover up. Observe the polarity marks on the battery holder. Battery should be removed with a small non-metallic tool. **A piece of tape over the battery will help prevent it from falling out in case of a sudden 'jar'.**

**IMPORTANT:** The key switch should be left in the 'OFF' position with the key removed, until ready for continuity testing or Firing.

Electric matches are connected to the **10Q/CD** by using the connectors on the **ODA 10 position slat**. There are 10 pairs of connectors, each being a cue and addressed by the rotary switch.

A single EM may be attached to each of the 10 connectors. However, the CD power source can easily fire 25-30 EM's (**in series**) on each cue. (Technical note: will fire all EM's in a 300 ohm series loop.)

The interconnecting cable should be laid out fully before connecting to either the slat or power module. (Suggestion: a shunt should be placed onto the connector which will

eventually be connected to the power module.) Connect the cable to the slat, then connect the other end to the power module.

At this point, continuity testing may be performed. Remember, all personnel should be distant from devices prior to testing.

1. Assure that the MODE switch is set to TEST.
2. Insert key into lock switch and turn power 'ON'
3. Place rotary switch to cue position to test.
4. Push the test button and if there is continuity the LED will light.
5. Turn rotary switch to position 2, and repeat #4.
6. This procedure is performed for all connected cues. Record those cues which do not test 'good', in order to find problem.
7. When testing is completed, turn key switch to OFF, remove key.  
(Suggestion: replace shunt onto connector until show time.)

NOTE: If both 'Power' and 'Test' LED appear to be dim then the battery is not fresh. This will cause longer charge times - always start with a new/fresh battery.

NOTE: Continuity testing only tells you if there is a complete circuit, ie. circuit is not open, not allowing current to flow - not able to fire EM's. However, a short circuit (like an aluminum gun or staple cutting thru the insulation) will test 'good', but will not allow EM's to fire. Make sure you have good connections (insulated from ground) and not shorted.

## **AT SHOWTIME**

1. Connect cable to power module.
2. Turn MODE switch to ARM.
3. Insert key and turn power ON (LED will light).
4. Place rotary switch to position desired to fire.
5. Press and hold the ON/OFF switch to ON, this will start the charging circuit. The 'neon' light will begin to flash (1 second), indicating 'ready'.
6. Press the FIRE/OFF switch to FIRE and release. All connected to the selected cue will fire.
7. Turn the rotary switch to the next cue - when the 'neon' is flashing, the FIRE/OFF can be pressed to fire, etc.

NOTE: The ON/OFF switch may be held in the ON position to reduce the re-charge time. When this switch is in the OFF position, the charging circuit is off as well as the firing capacitor is discharged to zero volts.

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