



# User Recommendations for Go-Style Core Gun Igniter

DET-5306-074C

MAN-DET-O74C (R1)

## Owen Oil Tools

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**Warning:** Use of Owen equipment contrary to manufacturer's specifications or operating instructions may result in property damage, serious injury or fatality. If you are not trained in the handling and use of explosive devices, do not attempt to use or assemble any Owen perforating systems or Owen firing devices.

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**Warning: Explosives are destructive by nature! Do not attempt to disassemble or alter the igniter in any manner! Do not crush, hammer, pinch, impact, pull wires or abuse the igniter or any explosive!**



**Warning: Be sure to follow safe operating practices as found in API RP-67 in accordance with governmental regulations, company policies and manufacturer's recommendations!**

Owen Oil Tools' Resistorized Bridge Igniters are designed to detonate when an electrical current greater than 0.2 amps is applied. The Go-Style Core Gun Igniter is a resistorized electrical igniter manufactured to API RP-67 recommendations and employs a 51 Ohm resistor in the firing circuit. It is designed to be used in Go-Style core guns for sample collection where the igniter provides a flame output to initiate a burn of a core gun load. The Go-Style Core Gun Igniter is intended to be used in operating conditions less than 375° F and 10,000 psi for 1 hour.

The user should satisfy themselves, as to the suitability of this product for the user's application.

## 1.0 Procedures for Panel Setup and Firing Resistorized Bridge Igniters

### 1.1 Before attaching a gun or igniter to the wireline cable:

- Short circuit the toolstring below the CCL.
- Apply DC voltage and adjust the rheostat to achieve 0.80 amps.
- Mark the rheostat location, then return the rheostat to zero.

**1.2** When ready to fire a gun or igniter downhole, increase the power to the firing circuit from 0 to the 0.80 amp rheostat position over 4-6 seconds until the igniter fires.



**Note:** *If an alternative firing technique is used, do not surge the firing circuit with power as it may cause the igniter to fail and a mis-run to occur.*

## 2.0 Arming



**Warning: Igniters should be removed from their packaging and storage in the loading/arming area at the time of arming!**

**2.1** After removing the igniter from the packaging, disconnect the ground wire from the spring; and wrap the ground wire around the body of the igniter. Inspect the firing head prior to inserting the igniter; the ID of the firing head should be 1/2 in (1.27 cm) diameter and free of debris. Insert the igniter, output end first, into the firing head until the igniter is firmly seated inside the firing head. The firing head should be mechanically attached to a **shunted** button sub firing head. The shunt may be removed from firing head to electrically check the resistance of the firing circuit and attach the firing head to the wireline.



**Note:** An electrical check of the igniter's firing circuit may be conducted while the igniter is confined in hardware. Using electrical igniter circuit testing instruments, Owen's 51 Ohm Resistorized Bridge Igniters will measure a resistance of 51 Ohms  $\pm$  5%.

**2.2** Insure the wireline cable is shunted. Mechanically connect the firing head to the wireline, which will electrically connect the igniter to the wireline cable or cable connections. The ballistic arming will be completed by attaching the firing head to the setting tool taking care not to force, pinch, crush, or impact the explosive components.

