



- 9,000-volt output for smooth gas ignition
- Solid state technology yields high performance, long life and durability
- Interrupted-duty rated
- Low current draw saves electricity
- Epoxy sealant provides water resistance and heat dissipation
- Consistent voltage output across a wide range of input voltages

Installing and wiring

WARNING Carlin ignitors must be installed and serviced only by a qualified burner service technician. Always disconnect power source before wiring to avoid electrical shock or damage to electrical components.

NOTICE **Grounding** — The ignition circuit requires a reliable ground path back to at least one of the ground straps in the ignitor mounting holes.

1. Disconnect wires from primary control to existing ignition transformer.
2. Remove any screws securing ignition transformer.
3. Observe the routing of electrical wiring from burner junction box to transformer.
4. Remove existing ignition transformer or ignitor.
5. Install new ignitor, reversing the above steps.
6. Mount the ignitor as described below.

Mounting 41800 ignitors

1. Carlin 41800 series ignitors can be mounted directly on top of the burner housing or other location, in the same manner as standard ignitors.
 - a. Model 418002RES ignitors are pre-mounted on a base plate for use on EZ-Gas burner.
 - b. Model 418002SCS ignitors are pre-mounted on a base plate for use on 201GAS and 301GAS burners.
 - c. Contact factory for availability of mounting plates and pre-mounted ignitors for other applications.
2. Secure the 41800 ignitor using two #10 x 3/4" sheet metal screws inserted from the bottom.

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Ignitor model	41800
Power input	120 VAC, 60 HZ, 40 VA
Ignitor output	9 KV, 45 mA RMS 14" High Voltage Wire Rated 150° C, 15 KVDC; bottom exit
Secondary grounding	Single-pole endpoint grounding
Operating temperature limits	+32° F to +140° F
Storage temperature limits	+32° F to +140° F
Agencies	UL Recognized US & Canada

Installing and wiring *(continued from front page)*

Wiring

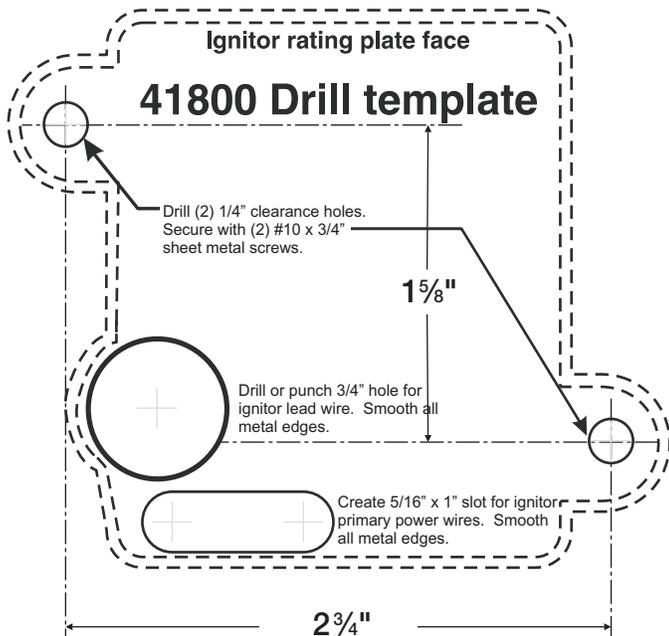
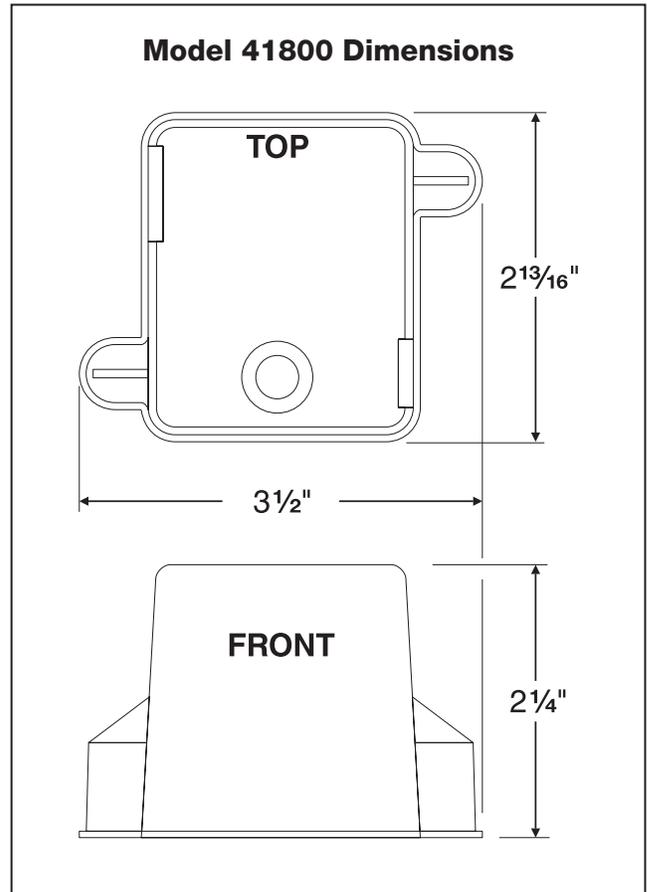
1. Install, connect and route the ignitor wiring the same as the ignition transformer or ignitor wiring was originally installed.
2. Make sure the ignitor is firmly attached to the burner housing and that all electrical connections meet local codes before applying power.
3. The ignitor ground tab must be in contact with a bare metal area on the mounting plate.

Field check

WARNING Never test an ignitor by placing a screwdriver (or other metallic object) across the high voltage terminals or from high voltage terminal to ground. Serious injury and damage to the ignitor could result.

1. You must use the burner's ignition device to test the ignitor. This is because there must be a reliable ground path to at least one of the ground straps in the ignitor mounting holes.
2. Turn off the burner gas supply and start the burner. Observe the burner ignition electrode to see if spark operation is correct.
3. If ignition spark is not acceptable, check ground path back to ignitor mounting plate or j-box. Verify ignition electrode is not in contact with any grounded surface and insulators are in good condition.

Burner Model	Lead Length	Ordering Part No.
EZ-Gas	12"	4180002S1
201GAS, 202GAS	6"	4180002S2
301GAS	14"	4180002S



NOTICE For applications requiring burner cover plate mounting, contact Carlin factory for availability and part numbers of cover plate kits.