



*Advance Racing Association*

## CRANE CAMS IGNITION SYSTEMS

### Spark Plugs

Always use a resistor core spark plug as this is an additional aid to reduce system "noise". Do not mix sets with resistor and non-resistor types

### Grounding

Grounding of all electrical components is **critical**. A good ground is not a strap pop riveted to the chassis.

- Ground both the heads to the chassis
- Assure you have a solid main chassis ground
- Use high quality grounding connections
- Maintain a continuous 12 gauge ground wire from the box to the chassis. Line extensions are ok as long as you use high quality connections and maintain the 12 gauge wire
- Do not mix wire gauge if 12 gauge is the proper gauge – do not add length with 18 gauge wire
- Use the ground lug located on the ignition system mounting plate

### Battery

Check your battery voltage and maintain it at a proper level at all times. A fully charged 12-volt battery should read 13.2 volts $\pm$ . A battery with low current power will cause an ignition to not function properly. Make sure the ground strap is properly attached to/from battery.

**Never** attempt to start car with battery charger attached as voltage spikes can occur.

### Alternator

Make sure your alternator is in working order to maintain proper voltage in your battery. On a 12-volt system the alternator should be putting out 13.8-14.6 volts.

Alternator malfunction = Battery malfunction = Ignition problems!

### Distributor Leads

The leads from the distributor must be routed separately from spark plug and coil primary wires. They should be shielded, with metallic shielded wire, and only ground one end at the ignition plate. If both ends are grounded this could cause excessive "noise" issues.

### Spark Plug Wires

Spark plug wires must be "suppression wires", either carbon based or helically wound. DO NOT use solid core wires.

### General Reminders

- When unplugging the coil – unplug at weatherpak®, not at the coil – leave the 6" coil wire attached To the coil
- Take care of the ignition system once issued to you. It is not fragile but needs to be handled with care
- **Never** weld on the car with ignition system hooked up
- Beware! A 12v wire that arcs to ground on the car could spike and damage ignition systems



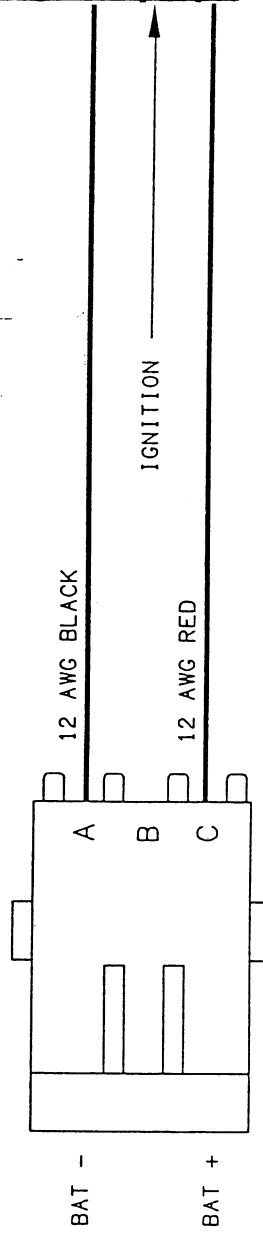
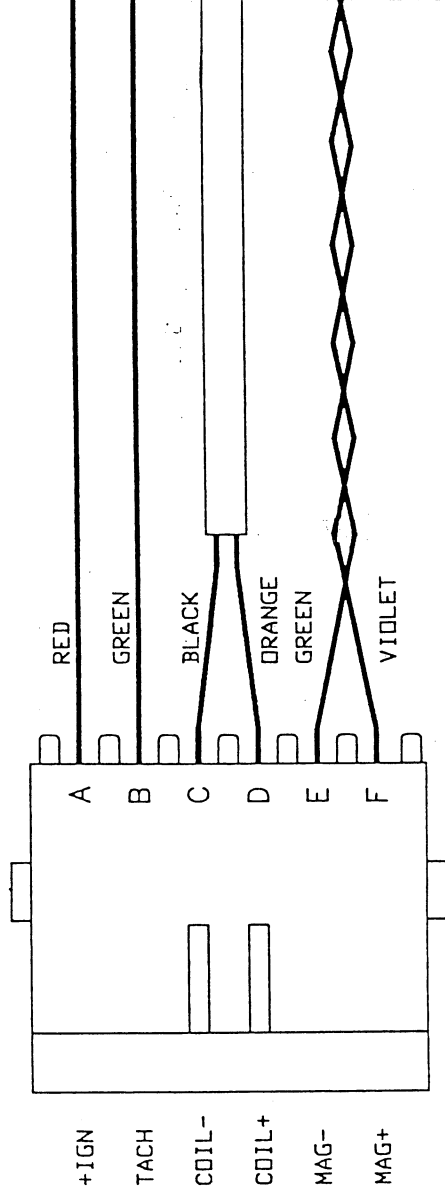
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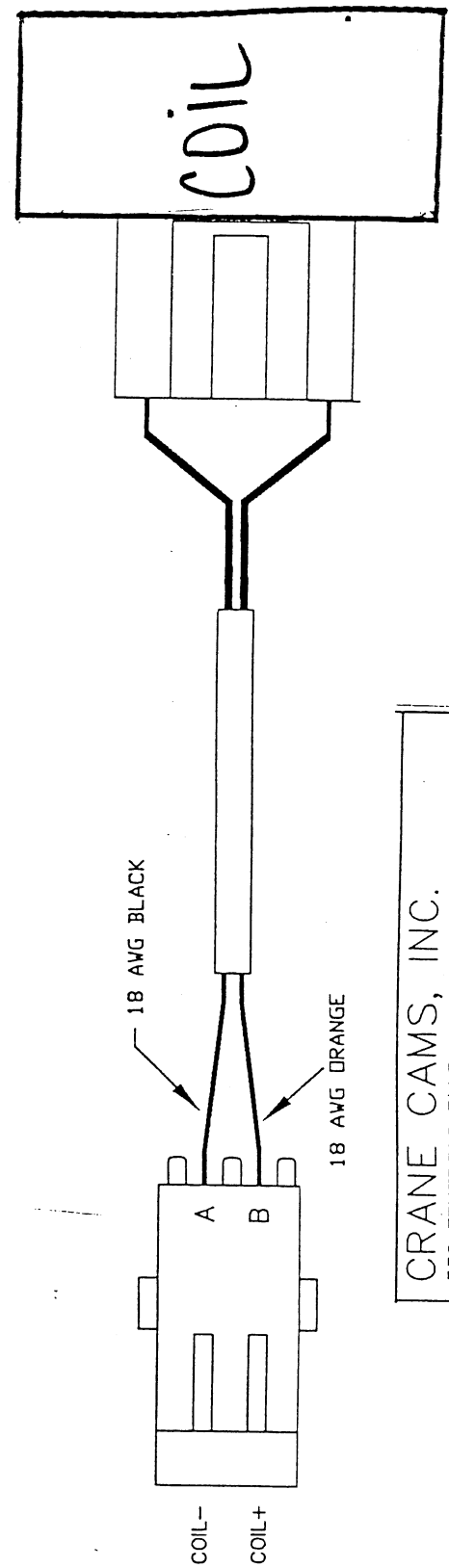
**ARA**  
Advance Racing Association

6000-6363A

IGNITION ~  
COIL  
MOUNTED ON  
DASH TRAY



CAR  
MUST  
MATE TO  
THESE  
IGNITION  
PLUGS



\* IGNITION / COIL SIDE \*

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\* IGNITION / COIL SIDE \*