

# Installation Guide

Smart Coil

555-40148

These smart coils are designed for use with ECUs that have a Coil Driver option. They are intended for high performance race applications, but will also work for street driven vehicles.



## Coil Specifications:

### Capacities

- Maximum Battery Voltage.....17.0 V
- Peak Output.....102 mJ
- Peak Voltage.....44,000 V

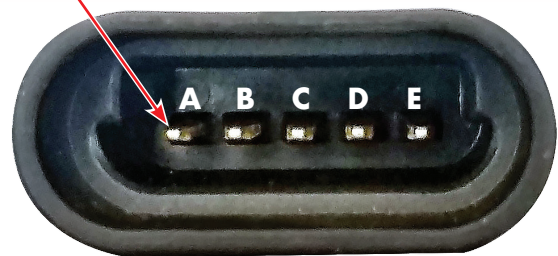
### Pull to Seat Connectors

- Connector Pin.....Delphi Pt.# 12124075
- Mating Connector.....Delphi Pt.# 12162825

### Dwell Settings

- Vehicles with >1.5 hp per C.I.....4.0 msec.
- Vehicles with <1.5 hp per C.I.....4.5 msec.
- High Boost, Drag Race Engines.....5.0 msec.

Connector Pin



## Assembly

- The wire must be fed through the back of the socket housing and out of the front. Once the wire is through crimp the pin. Then pull the wire back to seat it.

## Wiring

- PIN A - Coil Trigger
  - Connect to corresponding ignition signal from ECU.
  - Wire Gauge: Any
- PIN B - Coil Trigger Ground
  - These can all be tied together and go to the ECU ground (Ground Output).
  - Wire Gauge: Any
- PIN C - Ground to Cylinder Head
  - This ground **MUST** be attached to the cylinder head where the coil is discharging. It is recommended to tie cylinder bank wiring together. Do not connect any other grounds to this point. This must be the only ground in this location.
  - Wire Gauge: 18-20 per coil, tied to a 10-12.
- PIN D - Battery Ground
  - Connect to the battery or a ground stud that is directly connected to the battery. Do not ground to sheetmetal.
  - Wire Gauge: 18-20 per coil, tied to a 10-12.
- PIN E - High-Current Ignition-On +12 V Power
  - Do **NOT** connect to the battery. It is recommended to install to a 40 Amp relay source.
  - Wire Gauge: 18-20 per coil, tied to a 10-12.