



# SERVICE BULLETIN

**TOPIC:** Ignition Coil

**Part Number:** G-802-10

**NUMBER:** 12-17-01

**SUPERSEDES:** A111418A

**DATE:** December 1, 2017

**MODELS APPLICABLE TO:**      **TEST METHOD:**

F-1/F-2 Combination      D 2699, D 2700

ROUTE TO \_\_\_\_\_ Distributor/End User \_\_\_\_\_

Supercharge      D 909

Cetane D613

**SUBJECT:**      **New Ignition Coil Assembly (F1/F2)**

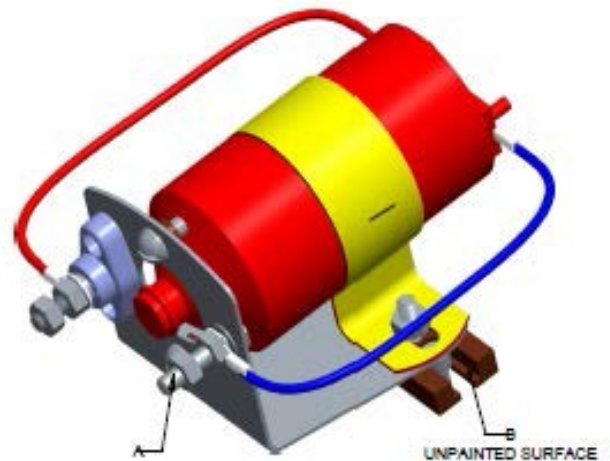
This service bulletin is to notify CFR distributors and end users that ignition coil A111418A has been superseded to a new ignition coil design, kit part number G-802-10. As of this bulletin we are no longer offering the older A111418A ignition coil. The new coil (G-802-10) replaces all older coils (A111418A) used in both legacy and XCP units as well as the noted kits below.

The new ignition coil is currently available only as the Kit G-802-10 assembly which has all the necessary parts for customers to properly mount it safely underneath the legacy or XCP panel.

## A111418A Obsolete Coil



## G-802-10 New Coil



**NOTE:** It is recommended that all ignition coils should be installed underneath the panel for safety reasons. We highly recommend that you do not mount coils on the front leg of the panels or of the front of the crankcase where the can be exposed to fuel.

The following CFR kits have had the older coil A111418A superseded to the new coil kit assembly  
G - 8 0 2 - 1 0 .

Kit Part Number	Kit Description
G-801-51	XCP Panel Kit
G-822-13	Ignition Kit

### **Installation Instructions:**

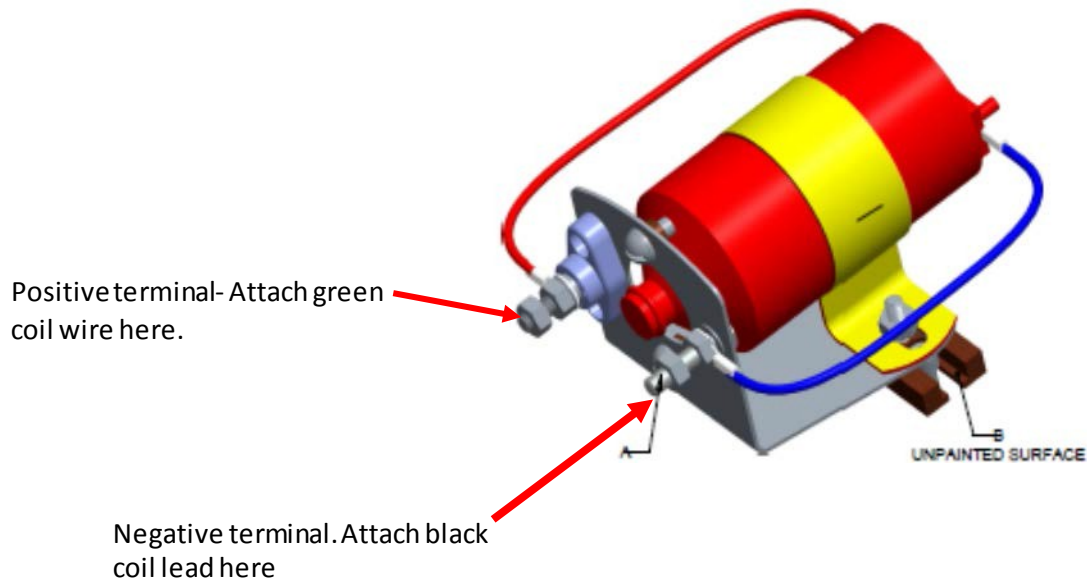
The new coil is comprised of several components that come pre-assembled. The adapter bracket located on the coil and ignition bracket assembly allows the user to mount the whole coil assembly to the bottom of the XCP or Legacy panel by (2) .25 x 1 x 20 bolts, lock washers and nuts. For XCP panels the hex head socket screws provided in the bag attached to the coil will be used to mount the new coil assembly.

### **You will need the following tools:**

- Hand drill- **(For Legacy Panel Installation)**
- 13/64" drill bit -**(For Legacy Panel Installation)**
- Center Punch-**(For Legacy Panel Installation)**
- Magnet-**(For Legacy Panel Installation)**
- Flat file-**(For Legacy Panel Installation)**
- 7/16" box and open end wrench or socket wrench with extension-**(For Legacy Panel Installation)**
- 3/16" allen hex wrench-**(For XCP Installation)**
- Multimeter-**(For all installations)**

### **Installation Instructions for XCP**

- Remove all power from the unit by locking and tagging out the single and three phase power
- Assure all energy has been removed by trying to start the unit.
- Locate the existing coil on the underside of the XCP panel and carefully unbolt it from the bottom of the panel
- Disconnect the sparkplug wire from the coil and sparkplug by first pulling it from the spark plug and then removing the two screws that hold the retaining strap and boot to the coil.
- Pull back the terminal boot covers for the positive and negative post on the coil. Using a 7/16" wrench remove the 1/4 -28 nuts that hold the positive and negative leads to the coil post.
- Remove the new coil from its package.
- Note the sides of the coil bracket (bracket around the coil) is marked with one side positive (+ ) and the other side Negative (-).
- Take the green lead previously removed from the old coil and attach it to the positive terminal of the new coil. (See Figure 1)



**Figure 1**

- Attach the black terminal lead to the negative side of the coil. (See figure 1)
- Make sure the nuts are tight and the boots are replaced over the nuts to protect the connections
- Remove the two large flat head screws and lock washers from the new coil bracket assembly.
- Install the previously used sparkplug wire or a new Sparkplug wire (751095B) not included.
- Be sure the wire is seated in the coil. Failure to do this will result in erratic ignition.
- Using the metal strap that retains the rubber boot to the coil replace the previously removed large flat head screws and lock washers so that the coil boot and wire are held in place by the metal strap and screws.
- Using a 3/16" allen wrench and the two ¼"-20 socket head set screws and mount the coil to the XCP panel where the old coil was mounted.
- Note that the allen head screws will sit retained in the adapter bar that is on the back of the ignition coil bracket.
- Tighten them into place on the bottom of the XCP panel so that none of the coil is exposed but the spark plug wire is facing the engine.
- Reconnect the sparkplug wire to the sparkplug
- As a final check, using a multimeter, check continuity ( $\Omega$ ) from point A to B in **Figure 1** above to verify it is less than 1.

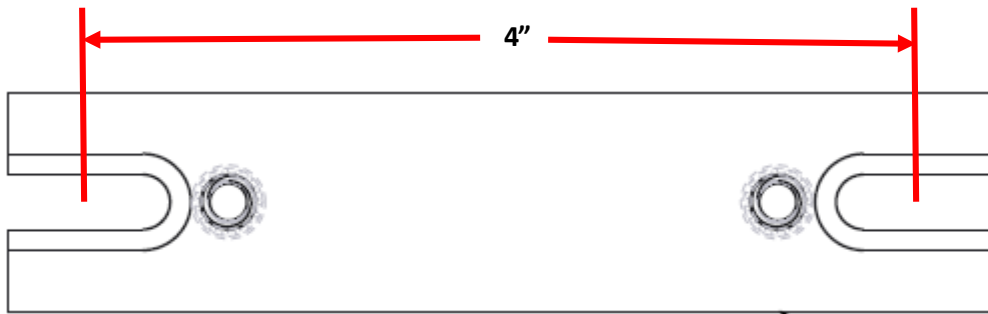
#### **Installation Instructions for the Legacy Panel**

- Remove all power from the unit by locking and tagging out both the single and three phase power.
- Assure all energy has been removed by trying to start the unit.
- Locate the existing coil on the underside of the XCP panel and carefully unbolt it from the bottom of the panel.
- Disconnect the sparkplug wire from the coil and sparkplug by first pulling it from the

spark plug and then removing the two screws that hold the retaining strap and boot to the coil.

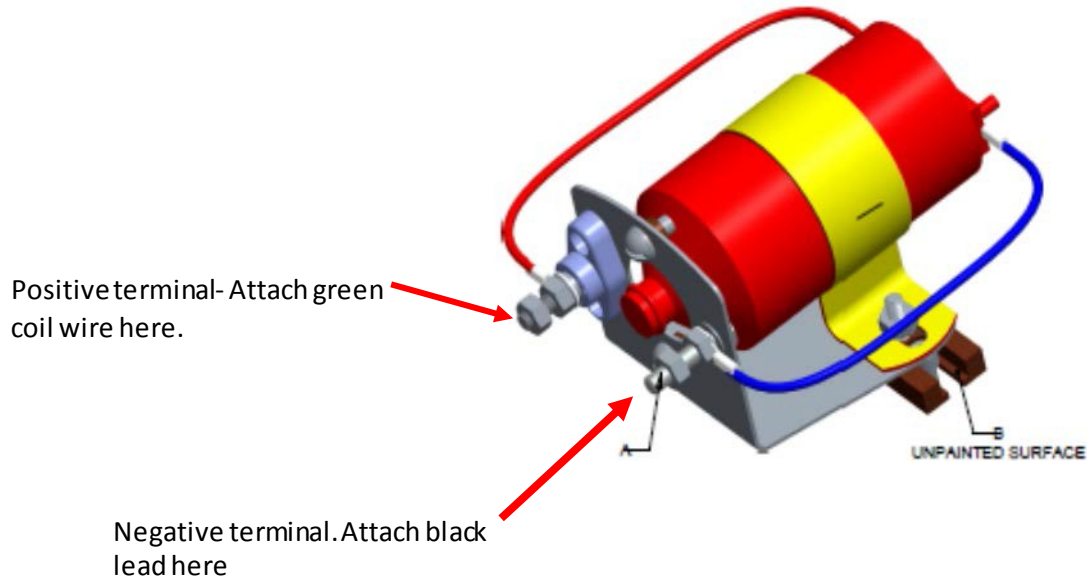
- Pull back the terminal boot covers for the positive and negative post on the coil. Using a 7/16" wrench remove the 1/4 -28 nuts that hold the positive and negative leads to the coil post.
- Inspect the underside of the panel and determine the location the covers the coil away from fuel but locates it close enough for the spark plug wire and associated primary ignition windings to reach with full functionality.
- Using a marker, locate two points 4" apart from each other where the coil will be mounted that is in close proximity to the lower leading edge of the panel so that the sparkplug and the coil leads will reach without being strained. **(See figure 2)**

**NOTE: If you remove the adapter assembly (See figure 2) from the coil bracket, it must be replaced with the star washers between it and the coil bracket to ensure good grounding.**



**Figure 2**

- Using a center punch, mark the two points that are 4 inches apart .
- Remove the back door and fold down the front door of the panel assembly and locate the two protruding punch marks inside the panel floor. Make sure the the current punch mark locations are not interfering with any electrical equipment or components that could get damaged from the drilling process or that will not clear the 1/4-20x1" mounting screws to be installed. If this is the case, relocate the two holes.
- Using the 13/64" drill bit, drill the two holes previously marked with the center punch
- Using a magnet clear and clean all metal debris created from drilling.
- Using a flat file, file down and sharp burrs on the inside of the panel where the holes were drilled.
- Remove the new coil from its package.
- Note the sides of the coil bracket (bracket around the coil) is marked with one side positive (+) and the other side Negative (-).
- Take the green lead previously removed from the old coil and attach it to the positive terminal of the new coil. **(See figure 3).**



**Figure 3**

- Attach the black terminal lead to the negative side of the coil. **(See figure 3)**
- Make sure the nuts are tight and the boots are replaced over the nuts to protect the connections
- Remove the two large flat head screws and lock washers from the new coil bracket assembly.
- Install the previously used sparkplug wire or a new Sparkplug wire (751095B) not included.
- Be sure the wire is seated in the coil. Failure to do this will result in erratic ignition.
- Using the metal strap that retains the rubber boot to the coil, replace the previously removed large flat head screws and lock washers so that the coil boot and wire are held in place by the metal strap and screws.
- Using a 7/16" wrench and the two ¼"-20-1" hex head set screws and lockwashers, mount the coil to the legacy panel where the new holes have been drilled.  
**(NOTE: The socket head screws will not be used on the legacy panel)**
- Note that the hex head screws will sit retained in the adapter bar that is on the back of the ignition coil bracket.
- From the inside of the panel where the two screws protrude, attach a lockwasher and nut to hold the coil in place.
- Tighten them into place on the bottom of the legacy panel so that none of the coil is exposed but the spark plug wire is facing the engine.
- Reconnect the sparkplug wire to the sparkplug
- As a final check, using a multimeter, check continuity ( $\Omega$ ) from point A to B in **Figure 3** above to verify it is less than 1.

For additional questions or concerns please contact your local CFR distributor

Best Regards,  
Daniel Bemis  
CFR Service Manager  
CFR Engines Inc.

