



2014 Greg Street  
Box 112  
Azle, Texas 76020  
(817) 444-5310 Tel.  
www.emagair.com

## Mandatory Service Bulletin

**Date:** 9/12/08 (Revised)

**Topic:** Position Sensor Magnet Mount

**Models Affected:** Series 113 and Series 114 ignitions shipped or serviced 8/1/07 to 9/6/08

**Urgency:** See below

### **Background:**

In series 113 and 114 ignitions, engine position is transmitted to the ignition by way of a small sensor magnet attached to the back end of the ignition shaft. Beginning in August 2007, the mount for this sensor magnet was revised to a system where the magnet is mounted in a brass holder which is then double set screwed to the ignition shaft. While initial performance was satisfactory, a pattern has recently emerged where, after a period of operation sensor mounts have worked loose in a few units, resulting in a loss of proper ignition timing.

### **Remedy:**

In order to properly address this issue in effected units, the main shaft and the sensor mount assembly design has been modified to utilize a keyway and a roll pin to secure the sensor magnet assembly to the shaft. (Note: Revision on 10/4/08 calls for roll-pin only with smaller sensor mount, and no keyway.)

### **Inspection:**

The set-screw sensor mounts were installed on ignitions shipped (generally) from mid August 07 thru September 10, 2008, as well as many (but not necessarily all) ignitions serviced in our shop during this period.

To verify the presence of the set screw sensor mount:

Hold the ignition with the shaft pointing upward, and look thru the narrow (magnifier glass help) space between the top of the six pin control plug connector and the ignition case. The female six pin connector mate will need to be removed and a light directed into the slot. The brass colored mount (0.6" diameter) will be visible, and when the shaft is turned, the two set screws can be seen. Prior to the brass set screw mount, the sensor magnet mount was an aluminum cup that will appear quite different (dull grey color and 0.3" diameter).

### **Actions Required:**

If your ignition has a set screw sensor magnet installed, return the ignition to E-MAG for a replacement sensor mount and shaft assembly (see revision note above). As with all such updates, E-MAG offers this upgrade free of charge.