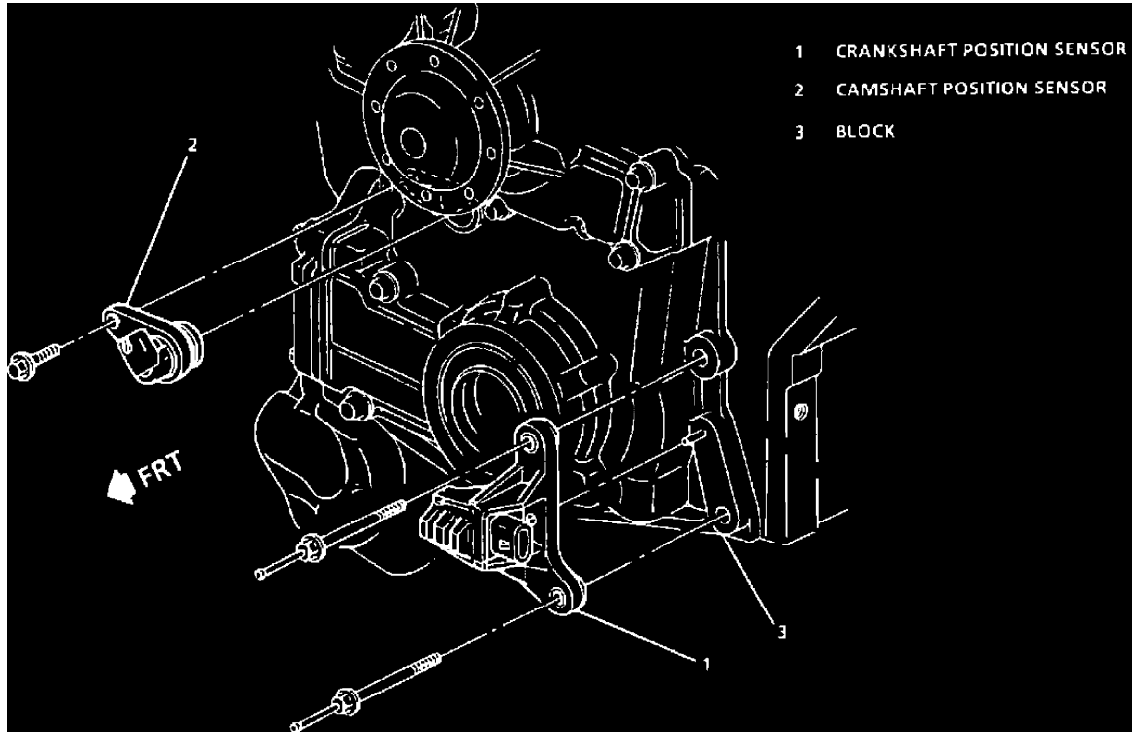


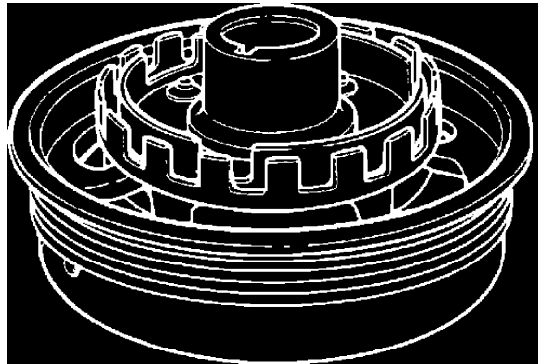
## Crankshaft Position Sensor: Service and Repair



**Camshaft And Crankshaft Position Sensors**

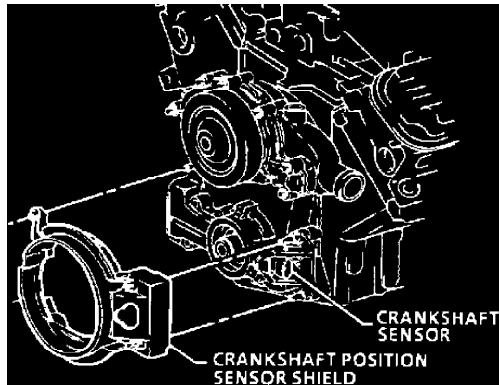
### **Remove or Disconnect:**

1. Disconnect negative battery cable
2. Remove serpentine belts from crankshaft pulley
3. Properly raise and support vehicle
4. Remove right front tire and wheel assembly
5. Remove right inner fender access cover
6. Using 28 mm socket, remove crankshaft harmonic balancer retaining bolt



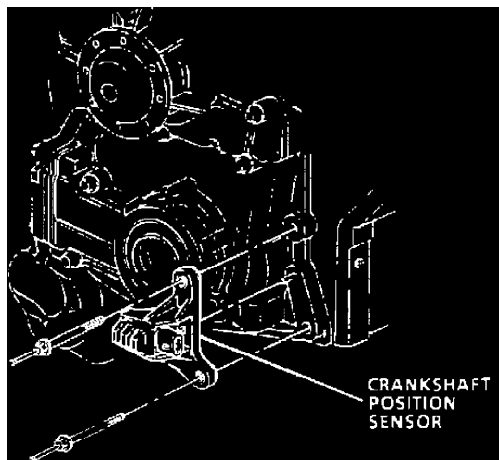
**Crankshaft Balancer With Interrupter Rings**

7. Using special tool J38197, remove crankshaft harmonic balancer



**Crankshaft Position Sensor Shield**

8. Remove crankshaft position sensor shield
9. Disconnect sensor electrical connector



**Crankshaft Sensor**

10. Remove sensor from block face

**Install or Connect:**

1. Install crankshaft position sensor to block face
2. Tighten bolts  
**Torque Value:** 20-40 N-m (14-28 lb.ft.)
3. Install crankshaft position sensor shield
4. Connect electrical connector
5. Install balancer on crankshaft
6. Apply thread sealer GM #1052080 or equivalent to threads of crankshaft balancer bolt  
**Torque Value:** 150 N-m + 76° (110 lb.ft. + 76°)
7. Install inner fender shield
8. Install tire and wheel assembly  
**Torque Value:** 140 N-m (104 lb.ft.)
9. Lower vehicle
10. Install serpentine belt
11. Connect negative battery cable