

# SECTION 03-07B Electronic Ignition (EI) System

| SUBJECT                               | PAGE     | SUBJECT                            | PAGE     |
|---------------------------------------|----------|------------------------------------|----------|
| <b>ADJUSTMENTS</b>                    |          | <b>DIAGNOSIS AND TESTING</b> ..... | 03-07B-5 |
| Initial Timing.....                   | 03-07B-8 | <b>REMOVAL AND INSTALLATION</b>    |          |
| <b>CLEANING AND INSPECTION</b>        |          | Camshaft Position (CKP) Sensor     |          |
| Ignition Coils.....                   | 03-07B-8 | Assembly.....                      | 03-07B-5 |
| Spark Plug Wires.....                 | 03-07B-8 | Crankshaft Position (CKP) Sensor   |          |
| <b>DESCRIPTION AND OPERATION</b>      |          | Assembly.....                      | 03-07B-5 |
| Camshaft Position (CMP) Sensor.....   | 03-07B-2 | Ignition Coil Pack.....            | 03-07B-6 |
| Components.....                       | 03-07B-1 | Ignition Control Module (ICM)..... | 03-07B-6 |
| Crankshaft Position (CKP) Sensor..... | 03-07B-1 | Spark Plug Wires.....              | 03-07B-7 |
| Failure Mode Effects Management.....  | 03-07B-2 | <b>SPECIAL SERVICE TOOLS</b> ..... | 03-07B-8 |
| Ignition Coil Pack.....               | 03-07B-2 | <b>SPECIFICATIONS</b> .....        | 03-07B-8 |
| Ignition Control Module (ICM).....    | 03-07B-2 | <b>VEHICLE APPLICATION</b> .....   | 03-07B-1 |
| Ignition Diagnostic Monitor.....      | 03-07B-2 |                                    |          |

## VEHICLE APPLICATION

Taurus with 3.0L / 3.2L SHO engines.

## DESCRIPTION AND OPERATION

### Components

The electronic ignition (EI) system for the 3.0L / 3.2L SHO engines consists of the following components:

- Crankshaft position (CKP) sensor 6C315
- Camshaft position (CMP) sensor 12126

- Ignition control module (ICM) 12A199
- Ignition coil pack
- The spark angle portion of powertrain control module (PCM) 12A650
- Related wiring

### Crankshaft Position (CKP) Sensor

The crankshaft position sensor is a single Hall effect magnetic switch, which is activated by three vanes on the crankshaft timing pulley. The signal generated by this sensor is called CKP. The CKP signal provides base timing and RPM information to the ICM and the powertrain control module (PCM).

Based timing is set at 10 degrees ± 2 degrees BTDC and is not adjustable.

