



# IM/93 Test Procedures – Service Bay Analysis Part 2

## DIRECTIONS:

You will need to obtain schematics for the subject vehicle you are working on in reference to testing the fuel injectors, ignition and fuel pump circuitry. All documentation should be attached to this worksheet if additional review is deemed necessary. All trouble codes must be addressed prior to beginning these series of test procedures.

Year: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_  
VIN#: \_\_\_\_\_

Analyze the drive trace to see if possible trends are present

### 1. Check ignition timing:

- Specifications \_\_\_\_\_ ATDC or BTDC
- Actual timing \_\_\_\_\_ ATDC or BTDC

### 2. Check for fuel pump integrity:

- Fuel pressure specifications: \_\_\_\_\_ PSI
- Actual fuel pressure: \_\_\_\_\_ PSI
- Fuel volume specification: \_\_\_\_\_ GPM
- Actual fuel volume: \_\_\_\_\_ GPM
- Fuel pump current (waveform): \_\_\_\_\_ Amps
- Fuel pump relay test: \_\_\_\_\_ Amps
- Fuel pump average current: \_\_\_\_\_ Amps
- Fuel pump speed: \_\_\_\_\_ RP
- Fuel pump integrity: PASS or FAIL

### 3. Check EGR system for proper operation:

- EGR valve: PASS or FAIL
- EGR passages: PASS or FAIL

### 4. Check PCV operation

### 5. Check the Air Management System for proper operation PASS or FAIL

### 6. Check EVAP/PURGE for proper operation PASS or FAIL