

# Chrysler Drive Cycle Information

## All Monitor Drive Trace

Pre-Conditioning Requirements:

- MIL must be off
- Cold start (Note: cold start temperature is undefined)

Driving Procedure

- 1) Warm engine up for five minutes (must reach closed loop)
- 2) Drive (with steady throttle) at a speed between 40 and 60 mph for 8 minutes.
- 3) Stop and idle for 3 minutes.
- 4) Drive (with steady throttle) at a speed above 20 mph for 2 minutes.
- 5) Turn key off, leave off for ten minutes (to run O2 sensor heater monitor).

Note: Due to the limited preconditions provided with this drive trace, NCV ECS recommends using the monitor specific drive traces for Chrysler vehicles.

## Catalyst Monitor Drive Trace

Pre-Conditioning Requirements:

- MIL must be off.
- No DTCs present.
- Fuel level is between 15% and 85% full.
- ECT above 70° F.
- Engine must have run at least 90 seconds
- Engine between 1,350 & 1,900 rpm.

Driving Procedure

- 1) Idle vehicle for five minutes (to reach closed loop operation).
- 2) Drive with a steady vehicle speed between 30 and 45 mph for 2 minutes.

## EGR System Monitor Drive Trace - Vacuum controlled

Pre-Conditioning Requirements:

- MIL must be off.

Driving Procedure

- 1) Idle vehicle for five minutes (to reach closed loop operation).
- 2) Drive with a steady vehicle speed between 40 & 60 mph for 8 minutes.

## EGR System Monitor Drive Trace - Electronic

Pre-Conditioning Requirements:

- MIL must be off.
- MAP must be between 0-60 KPa.
- Engine speed between 500-850 rpm.
- ECT is above 180° F (90° C).
- No misfire temporary (pending) or matured fault present.
- A/C clutch, PS Switch and Cooling fans do not change state (turn off).

Driving Procedure

- 1) Idle vehicle for five (5) minutes (to reach closed loop operation).
- 2) Drive with a steady vehicle speed between 40 & 60 mph for 2 minutes.
- 3) Idle vehicle for three (3) minutes.

Note: This monitor evaluates EGR flow based on a change of engine roughness (idle stability). Conditions causing un-stable idle will prevent this monitor from running.

### **Evaporative System Monitor Drive Trace**

Trace 1: Standard Type

Pre-Conditioning Requirements:

- MIL must be off.
- No Evaporative DTCs present.
- Fuel level is between ½ and full.

(Note: monitor may still run with tank fill between 15% and 85%).

Driving Procedure

- 1) Idle vehicle for five minutes (to reach closed loop operation).
- 2) Drive with a steady vehicle speed between 30 and 45 mph for 2 minutes.

Trace 2: Leak Detection Pump

Pre-Conditioning Requirements:

- MIL must be off.
- No Evaporative DTCs present.
- Fuel level is between 30 & 85 % full.

Driving Procedure

- 1) Cold soak vehicle, start and idle vehicle for 4 minutes.
- 2) Drive in-town (stop and go) for 5 minutes, using smooth accelerations and decelerations.
- 3) Stop and idle vehicle for 4 minutes.

### **O2 Sensor Monitor Drive Trace**

Pre-Conditioning Requirements:

- MIL must be off.

Driving Procedure

- 1) Idle vehicle for five minutes (to reach closed loop operation).
- 2) Drive with a steady vehicle speed above 25 mph for 2 minutes.
- 3) Stop and idle for 30 seconds.
- 4) Smoothly accelerate to a speed between 30 and 40 mph.
- 5) Repeat steps 3 & 4 five (5) times.

### **O2 Sensor Heater Monitor Drive Trace**

Pre-Conditioning Requirements:

- MIL must be off.

Driving Procedure

- 1) Idle vehicle for five minutes (to reach closed loop operation).
- 2) Shut engine off and leave vehicle off for ten minutes.