

# Drive Cycle Instructions

**Note:** Import vehicles must complete 2 consecutive drive cycles with a cool off period in between. The cool off period will vary with the season, during the winter the time could be a little as 3 to 4 hours and in the summer when temperatures are at their hottest the vehicle must be parked overnight.

## The following steps must be completed for all domestic and import vehicles:

### Step 1 - Prep.

Fuel Level, Gas Gauge must be above  $\frac{1}{4}$  and below  $\frac{3}{4}$ .

Drive vehicle to obtain operating temp.

When going to or returning from work, home or anywhere that you may remain for a cool off time of 3-4 hours during the winter or overnight during the summer please make sure all accessories are in the off position before turning the car off, all accessories must be in the off position at the beginning of step 2.

### Step 2 - Starting and Idling

Start engine (All accessories OFF).

Allow to idle (All accessories OFF) for 2 minutes.

After 2 minutes accessories may be turned on.

**Note: please do not use cruise control unless you are following drive cycle instructions for a specific make and model that may give you a specific time to cycle the cruise control.**

### Step 3 – Obtaining operating temperature

Prior to completing the next step it is important that all exhaust components and remaining power train components reach optimum temperature. This can simply be achieved by bringing the RPM's of the engine to 2000 RPM's for another 90 to 120 seconds.

### Step 4 - City Driving

**Note:** During the following instructions the vehicle must be operated in a normal driving conditions no extremely rapid accelerations or extremely rapid stops. **DO NOT exceed 45 MPH and do not take corners at higher than normal speeds or all steps prior to this will be canceled and the entire cycle will need to be completely restarted.**

Accelerate from 0 to 30-40 MPH, travel 1-3 blocks and come to a stop.

Remain stopped and idling for 10-15 seconds.

Accelerate again from 0 to 30-40 MPH, travel 1-3 blocks and come to a stop.

Remain stopped and idling for 10-15 seconds.

Repeat the acceleration and stopping step 3 more times.

**Note:** If these steps are repeated more than 3 times while starting the next step of the cycle there will be no issues with completing the drive cycle.

## **Step 5 - Freeway Driving**

**Note:** During this portion of the test no wide open throttle or pressing the acceleration pedal to the floor, **DO NOT** exceed 70 MPH or all steps prior to this will be canceled and the entire cycle will need to be completely restarted. **Note: please do not use cruise control unless you are following drive cycle instructions for a specific make and model that may give you a specific time to cycle the cruise control.**

Moderately accelerate onto the freeway (Safely).

Travel for 1-2 miles, varying your speed between 55-65 MPH, do not exceed 70 MPH

Exit the freeway (Safely) coasting as much as possible on the off-ramp.

Come to a complete stop in a safe spot for 30 seconds - 1 minute.

Enter the freeway again (Safely)

Travel for 1-2 miles, varying your speed between 55-65 MPH, do not exceed 70 MPH

Exit the freeway (Safely) coasting as much as possible on the off-ramp.

Come to a complete stop in a safe spot for 30 seconds - 1 minute.

Repeat these steps 1 more time.

### **Domestic Vehicle Users**

**Note:** If your vehicle is domestically manufactured in the U.S.A., including the power train system, you may now retest your vehicle. If readiness monitors still are incomplete after the retest you must repeat your drive cycle or consult a certified diagnostician to check your keep alive power to pcm and other components of your power train system; such as the cooling system that may cause incomplete drive cycles.

### **Import Vehicle Users**

**Note:** If your vehicle is an Import you must park your car and let it remain parked and turned off as referenced in the note at the beginning of the instructions. After the cooling off period you will need to repeat the drive cycle a 2<sup>nd</sup> time, you may then retest your vehicle. If readiness monitors still are incomplete after the retest you must redo 2 complete drive cycles, allowing for the necessary cooling off period. If after the retest the readiness monitors are still incomplete please consult a certified diagnostician to check your keep alive power to pcm and other components of your power train system, such as the cooling system that may cause incomplete drive cycles.

### **Disclaimer:**

**These drive cycle instructions are generic and written by a member of the Air Quality Board. There are drive cycle instructions specific to most makes and models provided by the manufacturers, however, they can be difficult to follow and may require a co-pilot to assist during the process. If desired, those instructions can be obtain through local shops, dealers, automotive manuals or CD's. There may also be other types of software available to assist technicians in diagnosing "no code" or "pending incomplete drive cycle" if needed.**