



HYUNDAI Technical Service Bulletin

Group	ENGINE MECHANICAL
Number	05-20-005
Date	NOVEMBER, 2005
Model	ALL MODELS

Subject	FUEL MILEAGE CALCULATION
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CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY MGR	<input type="checkbox"/> SALES MANAGER

DESCRIPTION:

The following information and procedure is provided to assist in documenting and verifying fuel consumption.

Fuel economy is influenced by many factors. EPA ratings are estimates of the miles per gallon (MPG) possible in city and highway conditions. Factors affecting fuel economy include:

1. Driving characteristics and conditions:

- a. Quick acceleration and heavy braking
- b. Excessive idling
- c. Driving at higher speeds
- d. Cold weather
- e. Frequent stops
- f. Cargo or cargo racks
- g. Towing or excessive weight
- h. Electrical accessories
- i. Hilly terrain

- 2. Mileage and condition of engine
- 3. Condition and maintenance of vehicle
- 4. Fuel types and fuel quality
- 5. Differences between vehicles

PROCEDURE:

Use the following procedure to calculate a vehicle's fuel mileage.

<p>1. Fill the vehicle's gas tank completely. Write down the vehicle's odometer reading (mileage). Record the gas station and pump number and use this same pump to fill the vehicle in step 2.</p> <p>NOTE: Allow the fuel pump to fill automatically and allow it to shut off by itself, do not top off tank.</p>	<p><i>Example:</i> 28,459.5 miles Brand Z, Pump #3</p>
<p>2. When it's time to refuel, fill the gas tank completely and write down the vehicle's new odometer reading (mileage) and the number of gallons it took to fill the tank.</p>	<p><i>Example:</i> 28,761.1 miles 15.1 gallons</p>
<p>3. Calculate the distance driven by subtracting the mileage in step 1 from mileage in step 2.</p>	<p><i>Example:</i> 28,761.1 - 28,459.5 = 301.6 miles</p>
<p>4. Divide the distance driven by the gallons it took to fill the tank. The result is the miles per gallon (MPG) for that period.</p>	<p><i>Example:</i> 301.6 miles / 15.1 gallons = 19.97 MPG</p>

	DATE	MILEAGE		GASOLINE ADDED		TECHNICIAN INITIALS
START		A			FULL	
FINISH		B		X		

$$\frac{\text{TOTAL MILEAGE (B-A)}}{\text{TOTAL GASOLINE ADDED (X)}} = \boxed{} \text{ MILES PER GALLON (MPG)}$$