Gen 2 Prius Fuel Gauge

Gen 2 Prius Fuel gauge is originally inaccurate as design feature which Prius drivers need to compromise.

Therefore, Prius drivers must react properly referring to "**Appropriate gas refill timing**" below. If not, you will face severe empty gas accident.

Refer to Technical Service Bulletins issued by Toyota, "<u>TSB-EL010-04 Revised</u>" issued on 8/24/2004 and "<u>TSB-0163-08</u>" issued on 8/5/2008.

Initialize "TRIP A" mileage & Fuel inclination (A complicated procedure most people dislike)

(1) Choose "TRIP A" mode

- Press "Power" twice with no Brake ("IG-ON").
- Press "ODO TRIP" until "TRIP A" is chosen.
- Press "Power" once ("Power OFF").

(2) Clear "TRIP A" mileage & Reset fuel inclination sensor

- Press and hold "ODO TRIP" ON.
- Press "Power" twice with no Brake ("IG-ON").
- Turn "ODO TRIP" OFF ON OFF ON OFF ON within 5 seconds.
- Wait until "TRIP A" becomes "XXXXXX" 6 digits hex numbers, Release "ODO TRIP" OFF.
- Press and hold "ODO TRIP" ON.
- Wait until "TRIP A" becomes "XX1XX" 5 digits hex numbers, Release "ODO TRIP" OFF.
- "TRIP A" display is cleared to "0.0" MI as well as fuel inclination data is initialized background.

Specification of 5 digits Hex numbers

5 digits HEX numbers on "TRIP A" display								
X	X		x	X	x			
		Data	a Write Status					
Vertical (Longitudinal) Fuel		0 In progress		Horizontal (Lateral)				
		1	1 Completed		Fuel			
Inclin Da	nation ata	1 2 Error Incli		nation ata				
		3	Canceled					

Fuel gauge bars vs. Sender resistance

Fuel gauge bars	Sender resistance (Ω)		Fuel tank connector						
10	4		36						
9	36		45			٦	പ		
8	45		53		\sim		-		
7	52		58	((4	3	2	1 `	11
6	58		65		<u> </u>		<u> </u>	<u> </u>	15
5	65	~	72	Ч	ß	7	6	5	12
4	72		78		\square	Ľ–	LY		1)
3	78		85		\searrow				Κ
2	85]	91		Ľ			9	Y
1	91		110						(1)

Recommendation on TSB from Toyota

More than 3 gallons must be refilled at least because the fuel gauge is not updated due to the existence of a bladder fuel tank. Toyota has been insisting on saying "It is not a design flaw. Installing an additional flexible capacity bladder tank had to be installed for only North America model not to spill and scatter evaporated gas". Is it effective for keeping clean air? It is similar to Freon gas spillage prohibition. Is there any certified evidence by authority?

Then, Prius drivers must guess how much fuel is actually in a sub-tank a fuel sensor is attached. The guess is not simple and easy.

A sub-tank and a bladder tank can store total 11.9 gallons in optimum condition, temperature-wise. Due to the side effect of bladder tank, when putting in gas up to a little more 8 gallons from gas empty condition reaches in full condition, a gas pump at gas station stops supplying gas. Guess why.

Appropriate gas refill timing

(Reaction 1) When fuel gauge bars reached down to 4 bars (Trip meter reset and refill in full are not necessary)

This is a simplest way because the fuel gauge bars are linearly updated if the bars are in range of 10 to 4 (Be careful that bars under 3 are in erratic dangerous range).

Only the range of 10 down to 4, not 10 down to 1, is applicable. Prius fuel gauge feature! Good or bad?

(Reaction 2) When the trip meter (TRIP A) reached 300 miles (Trip meter reset and refill in full are necessary)

Guess that the mileage is 40 miles per gallon and 7.5 gallons are consumed for running 300 miles. Refill time has come. What a good guess! Enjoy.

	Fuel gauge bars						
	10	9	8	7	6	5	4
Photo	E I F TRIPA Ч.5.8 мі		Е В <u>Б</u> <i>тгір</i> д Ч 5.8 мі	Е <u>В</u> <u></u> тгір д Ч 5.8 мі	Е В <u>Б</u> тгір а Ч <u>5.8</u> мі	Е <u>В</u> <u>Б</u> тгір а Ч 5.8 мі	Е <u>В</u> <u></u> тгір а Ч 5.8 мі
Trip meter reading	0	70					
Drive distance		70					

"Fuel gauge bars" and "actual drive distance" relationship (History recording in progress)