



# SERVICE BULLETIN

Classification:	Reference:	Date:
EL08-013a	NTB08-091a	February 3, 2009

## 2004-2009 TITAN & ARMADA; FUEL GAUGE DOES NOT READ FULL, IS SLOW TO RESPOND, OR IS INACCURATE

This bulletin has been amended. Applied VIN and Applied Date information has been added, and the Parts Information section has been adjusted. Please discard all previous copies of this bulletin.

- APPLIED VEHICLES:** 2004 - 2009 Titan (A60)  
2004 - 2009 Armada (TA60)
- APPLIED VINS:** Titan - Vehicles built before 1N6(\*)A0(\*\*)9N 312026  
Armada - Vehicles built before 5N1(\*)A08(\*\*)9N 613218
- APPLIED DATES:** Titan - Vehicles built before November 24, 2008  
Armada - Vehicles built before January 6, 2009

### IF YOU CONFIRM

- Fuel gauge does not read full when tank is full.  
**OR**
- Fuel gauge has slow response to full when tank is full.  
**OR**
- Fuel gauge is inaccurate.

### ACTION

Replace the fuel sender unit.

### NOTES:

- See the Service Procedure for instructions on replacing the fuel sender unit.
- DO NOT replace the entire fuel pump assembly for this incident, if it should occur.

**IMPORTANT:** The purpose of "ACTION" (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire Service Procedure (starting on page 3) as it contains information that is essential to successfully completing the repair.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

# PARTS INFORMATION

## GASOLINE VEHICLE (NON FFV)

NO	VEHICLE TYPE	APPLIED VIN	DESCRIPTION	PART NUMBER	FLOAT ARM**	QUANTITY
1	Titan (SWB)	VIN is less than 1N6A****6N509709	Sender Unit – Fuel Gauge	25060 ZQ60A	Type A	1
2	Armada	VIN is less than 5N1A****6N704994				1
3	Titan (SWB)	VIN is greater than 1N6A****6N509709	Sender Unit – Fuel Gauge	25060 ZQ60C	Type B	1
4	Armada	VIN is greater than 5N1A****6N704994				1
5	Titan (LWB)	2008 MY and later	Sender Unit – Fuel Gauge	25060 ZQ60E	Type B	1
6	All	All	Seal – O Ring, Fuel Gauge	17342 7S000	All	1

## FFV (FLEXIBLE FUEL VEHICLE)\*

NO	VEHICLE TYPE	APPLIED VIN	DESCRIPTION	PART NUMBER	FLOAT ARM**	QUANTITY
1	Titan (SWB)	VIN is less than 1N6B****6N518512	Sender Unit – Fuel Gauge	25060 ZQ60B	Type A	1
2	Titan (SWB)	VIN is greater than 1N6B****6N518512	Sender Unit – Fuel Gauge	25060 ZQ60D	Type B	1
3	Armada	Vehicle built after 2007	Sender Unit – Fuel Gauge			1
4	Titan (LWB)	2008 MY and later	Sender Unit – Fuel Gauge	25060 ZQ61E	Type B	1
5	All	All	Seal – O Ring, Fuel Gauge	17342 7S000	All	1

\* Flexible fuel vehicles can be identified by looking at the under-hood emission label or the fuel filler door label. See Figure 1 and Figure 2 for reference.

\*\* There are two types of float arms: Type A and B. Please refer to Figure 3 and Figure 4. The orientation of the new replacement float arm (float arm type) must be the same as the original orientation of the float arm in the vehicle.



Figure 1: FFV Label under the hood



Figure 2: FFV Label at fuel filler door

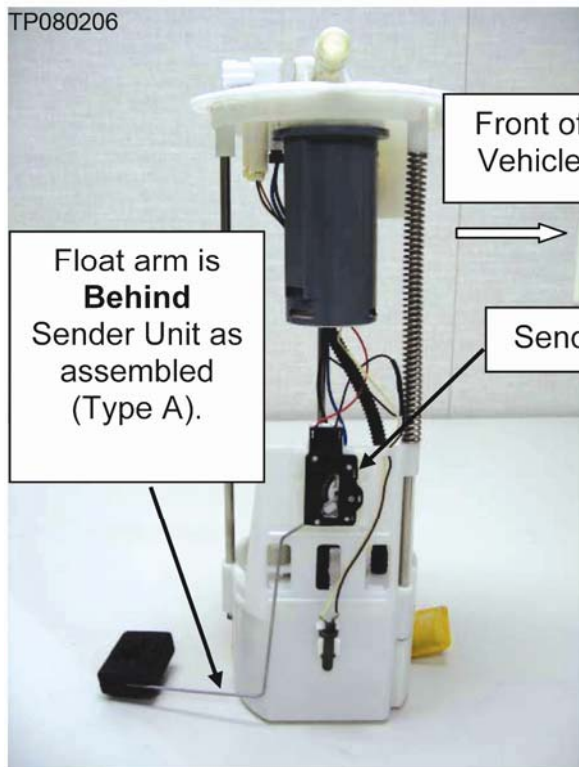


Figure 3: Type A Sender Unit

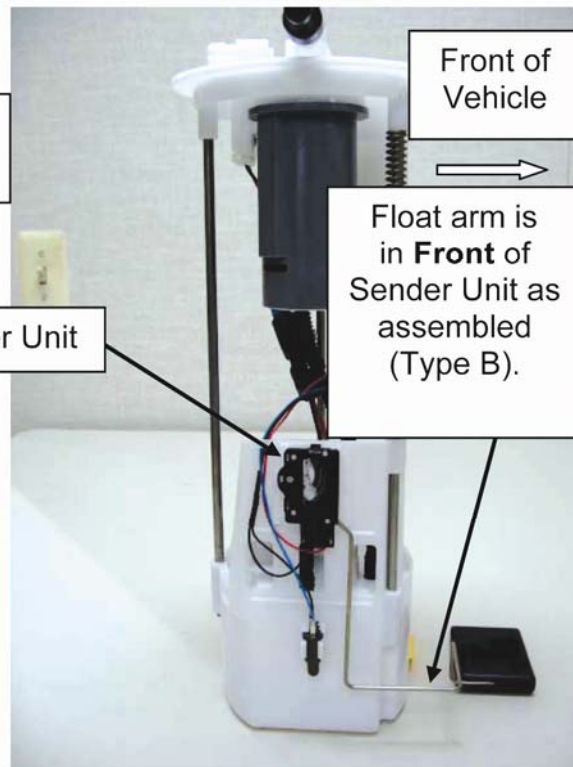


Figure 4: Type B Sender Unit

## CLAIMS INFORMATION

Submit a Primary Failed Part (PP) line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
RPL Fuel Level Sending Unit	(1)	FB20AA	ZE	32	(2)

- (1) Reference the Parts Information Table and use the applicable Sender Unit-Fuel Gauge P/N as the PFP.
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

## SERVICE PROCEDURE

1. Remove the Fuel Pump Assembly from the vehicle.
  - Refer to section **FL** of the applicable Electronic Service Manual (ESM) for cautions and removal instructions.
2. Remove the Fuel Gauge Sender Unit from the Fuel Pump Assembly as follows:
  - a. First, press IN on the two locking tabs on either side of the Fuel Gauge Sender Unit (see Figure 5 for Type A **or** Figure 7 for Type B, next page).
  - b. Then, pull the Unit UP and OUT of the attachment slots (see Figure 6 for Type A **or** Figure 8 for Type B, next page).

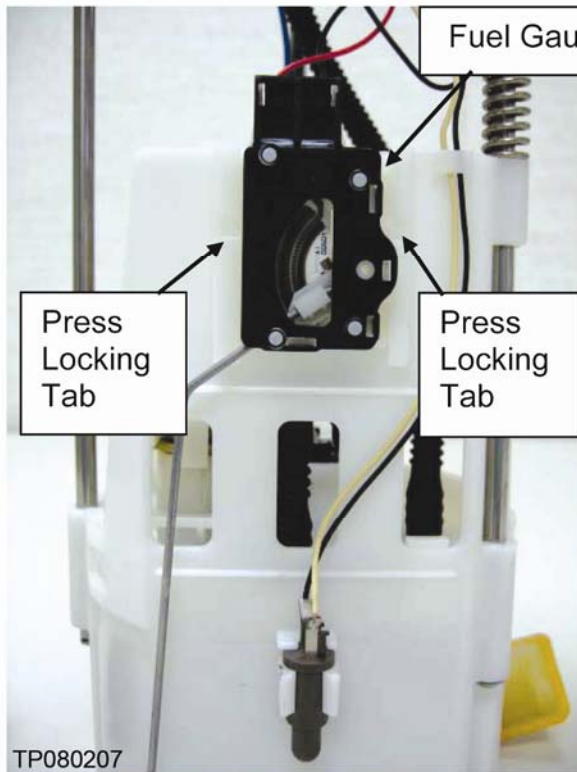


Figure 5

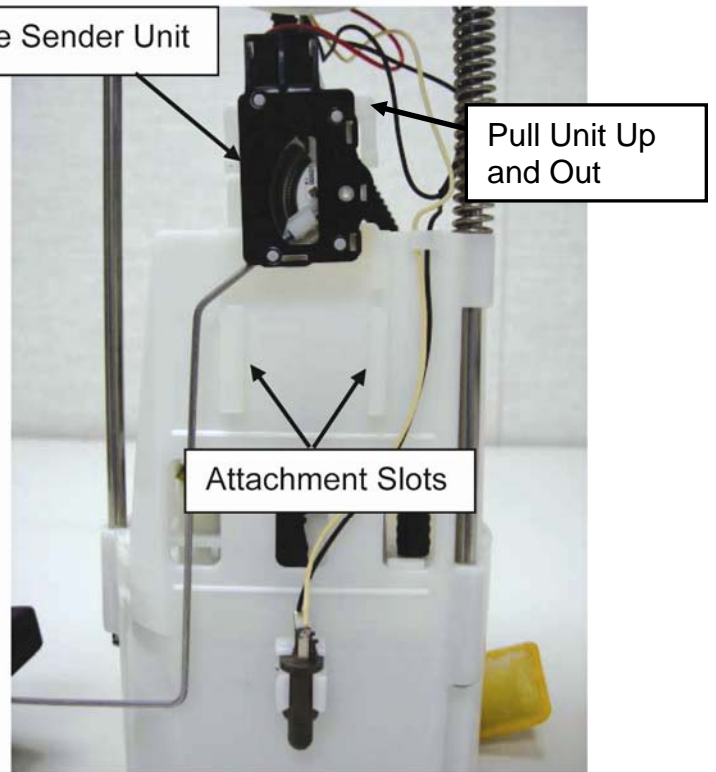


Figure 6

**NOTE:** Figure 5 and Figure 6 are applicable to Type A float arm only.

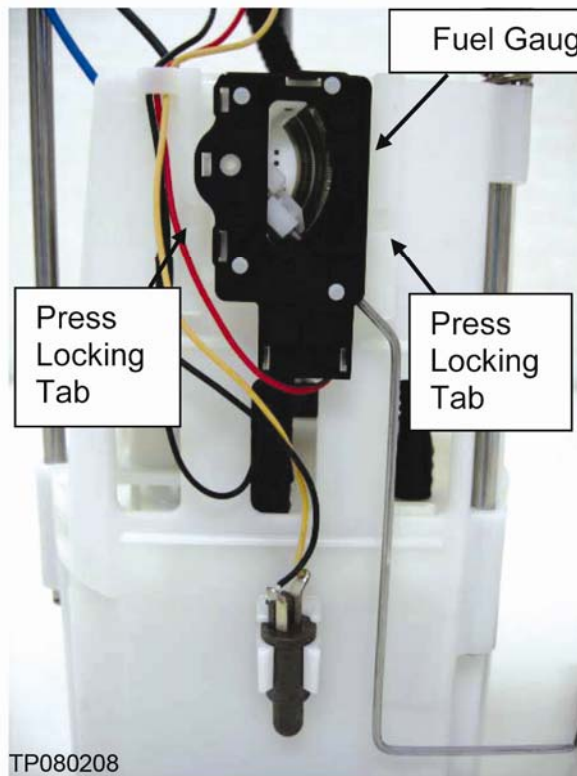


Figure 7

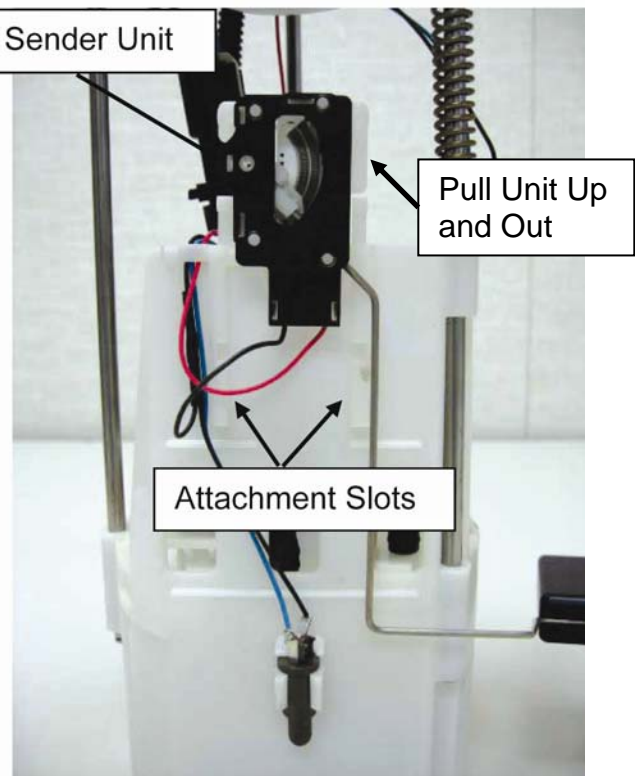


Figure 8

**NOTE:** Figure 7 and Figure 8 are applicable to Type B float arm only.

- c. Remove the brown fuel Temperature Sensor from the white Plastic Retaining Clip (see Figure 9).
- d. Remove the wires from the Securing Tab (see Figure 9).

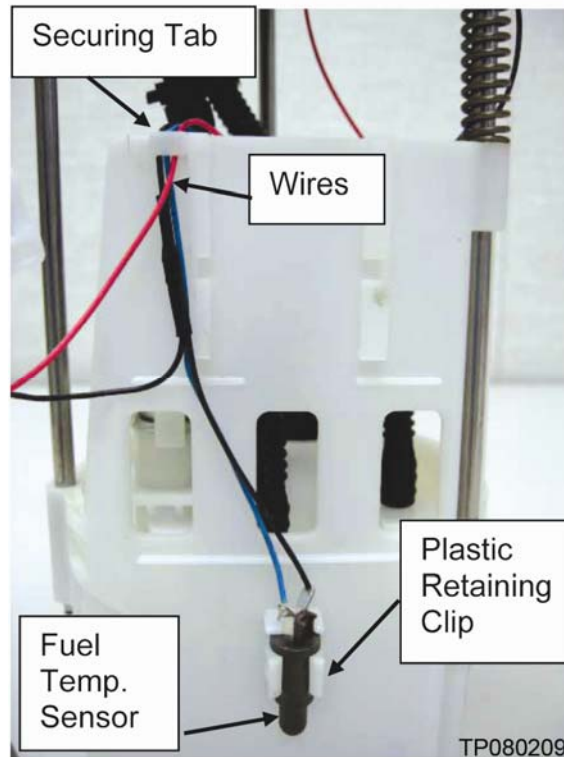


Figure 9

- e. Unplug the White Wire Connector at the top of the fuel pump (see Figure 10).
  - **DO NOT** disturb the black Wire Connector located next to the white Wire connector.
- f. Carefully cut the Tie-Wrap securing the harnesses to the Black Corrugated Tubing (see Figure 10).

**CAUTION: DO NOT damage the wires or the wire insulation when cutting the Tie-Wrap.**

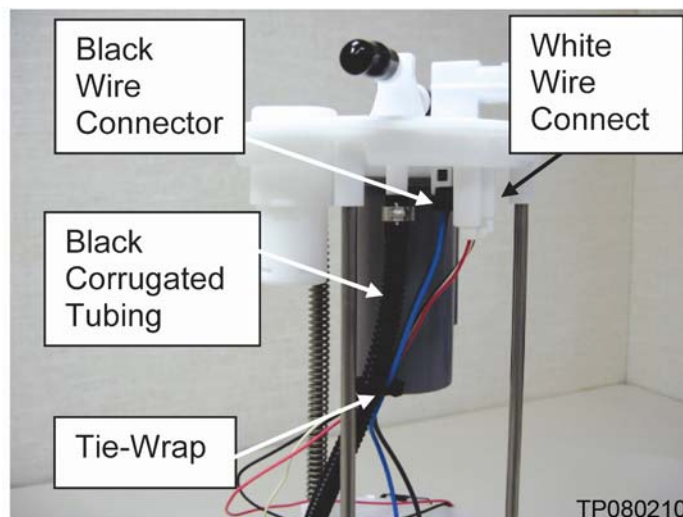


Figure 10



3. Install the **new** fuel Gauge Sender Unit as follows:

**CAUTION: DO NOT bend the Float Arm when handling the Fuel Gauge Sender Unit / Fuel Pump Assembly.**

- a. Slide the new fuel Gauge Sender Unit into the attachment slots until the two Locking Tabs snap in place (see Figure 11 and Figure 12).
  - Confirm the Locking Tabs are snapped in place by trying to move the Sender Unit up and down (it should not move).
- b. Insert the Brown Fuel Temperature Sensor into the White Plastic Retaining Clip (see Figure 11 and Figure 12).
  - Make sure the “circular flange” of the Sensor is positioned between the Clip and the Rib.
- c. Insert the two Fuel Temperature Sensor Wires into the Securing Tab (see Figure 11 and Figure 12).

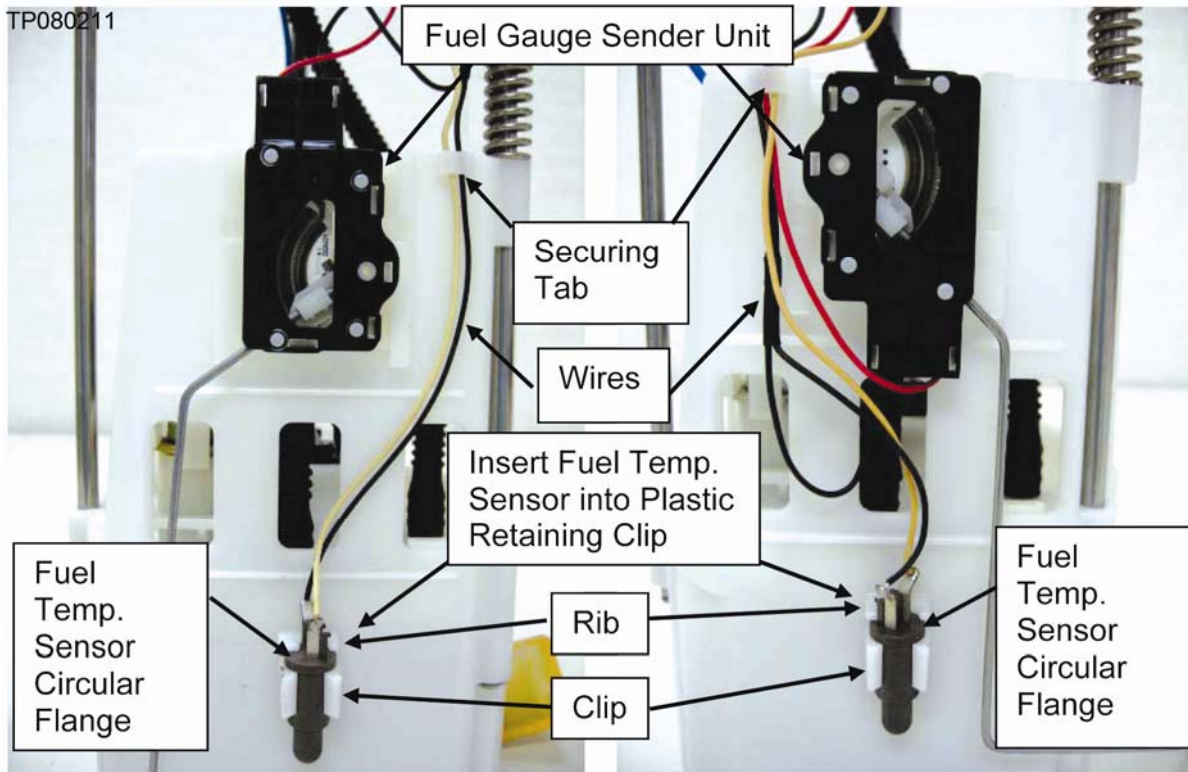


Figure 11

Figure 12

**NOTE:** Figure 11 is applicable to Type A float arm only.  
Figure 12 is applicable to Type B float arm only.

- d. Connect the White Wire Connector into the top of the Fuel Pump (see Figure 13).
- e. Pull and push all connectors to make sure they are fully locked in place.

- f. Use the **new** Tie-Wrap to secure all the wires to the black corrugated tubing. These include the three fuel level sending unit wires and the two fuel pump wires (see Figure 13).
- Place the Tie-Wrap 90 mm (about 3.5 inches) from the top of the tubing.
  - Make sure the wires do not interfere with the movement of the float arm.

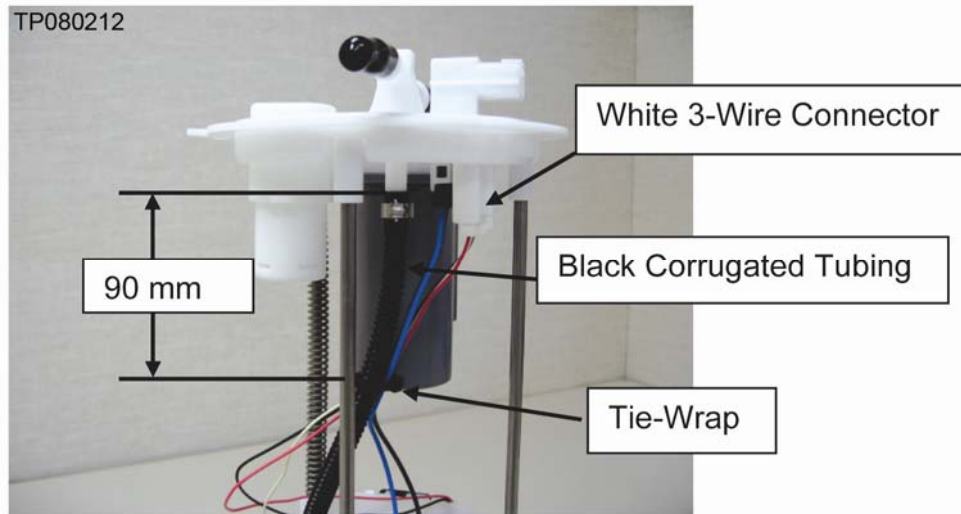


Figure 13

4. Carefully reinstall the Fuel Pump Assembly into the vehicle. Refer to section **FL** of the ESM for cautions and installation procedure.
- Use a new Seal – O Ring, Fuel Gauge listed in the Parts Information section of this bulletin when reinstalling the Fuel Pump Assembly.

**CAUTION: DO NOT bend the Float Arm when reinstalling the Fuel Pump.**

5. Confirm the Fuel Gauge operates properly.