## FUEL GAUGE READING IS NOT CORRECT [INSTRUMENT CLUSTER]

id0903d5012800

## Possible cause 2WD

- · Instrument cluster malfunction
- Rear body control module (RBCM) malfunction
- Fuel gauge sender unit malfunction
- Open or short circuit in wiring harness between fuel gauge sensor unit and rear body control module (RBCM)

## 4WD

- · Instrument cluster malfunction
- · Rear body control module (RBCM) malfunction
- Fuel gauge sender unit (main/sub) malfunction
- Open or short circuit in wiring harness between fuel gauge sender unit (main/sub) and rear body control module (RBCM)

## **Diagnostic Procedure**

Step	Inspection		Action
1	PERFORM CAN MALFUNCTION DIAGNOSIS	Yes	Go to the applicable DTC inspection.
	AND DTC INSPECTION		(See DTC TABLE [INSTRUMENT CLUSTER].)
	Perform the CAN malfunction diagnosis according	No	Go to the next step.
	to the recommendation of FOREWORD		·
	[INSTRUMENT CLUSTER] malfunction diagnosis,		
	and if there is no CAN malfunction, perform		
	inspection for DTCs.		
	(See DTC INSPECTION [INSTRUMENT		
	CLUSTER].)		
	Is the DTC displayed?		
2	Inspection of instrument cluster	Yes	Go to the next step.
	Perform inspection of the fuel gauge/LCD display	No	Replace the instrument cluster.
	referring to the instrument cluster inspection.		(See INSTRUMENT CLUSTER REMOVAL/
	(See INSTRUMENT CLUSTER INSPECTION.)		INSTALLATION.)
	• Is the display normal?		
3	DETERMINE IF MALFUNCTION CAUSE IS FUEL	Yes	Go to the next step.
	GAUGE SENDER	No	Go to Step 5.
	Display the following rear body control module (RROAL) RIPS and the AMADO		
	(RBCM) PIDs using the M-MDS.		
	— FUEL_SEN_M — FUEL SEN S (4WD)		
	FUEL_SEN_S (4WD) Verify the voltage in the display monitor while		
	shaking the vehicle.		
	Does the voltage change?		
4	DETERMINE IF MALFUNCTION CAUSE IS REAR	Yes	Replace the instrument cluster.
	BODY CONTROL MODULE (RBCM)	. 00	(See INSTRUMENT CLUSTER REMOVAL/
	Display the following instrument cluster PIDs using		INSTALLATION.)
	the M-MDS.	No	Replace the rear body control module (RBCM).
	— FUEL SEN M		(See REAR BODY CONTROL MODULE (RBCM
	— FUEL_SEN_S (4WD)		REMOVAL/INSTALLATION.)
	Verify the resistance in the display monitor while		,
	shaking the vehicle.		
	Does the resistance change?		
5	INSPECT FUEL GAUGE SENDER UNIT	Yes	Inspect the wiring harness between the fuel gau
	Switch the ignition off (LOCK).		sender unit (2WD) or the fuel gauge sender unit
	Inspect the fuel gauge sender unit (2WD) or the		(main/sub) (4WD) and the rear body control mod
	fuel gauge sender unit (main/sub) (4WD).		(RBCM), and repair or replace the malfunctionin
	(See FUEL GAUGE SENDER UNIT INSPECTION		part.
	[2WD].)	No	Replace the fuel gauge sender unit (2WD) or the
	(See FUEL GAUGE SENDER UNIT INSPECTION		gauge sender unit (main/sub) (4WD).
	[4WD].)		(See FUEL GAUGE SENDER UNIT REMOVAL)
	• Is the fuel gauge sender unit (2WD) or the fuel		INSTALLATION [2WD].)
	gauge sender unit (main/sub) (4WD) normal?		(See FUEL GAUGE SENDER UNIT REMOVAL)
			INSTALLATION [4WD].)