



**Technical Service  
Information Bulletin**

September 22, 2006

Title:

**INITIALIZATION OF VGRS SYSTEM  
DURING PDS**

Models:

'07 LS 460

PD071-06

PRE-DELIVERY SERVICE

**Introduction** This bulletin describes the initialization procedure for the Variable Gear Ratio Steering (VGRS) system.

The DCC fuse is removed at the assembly plant to reduce parasitic current draw from the battery during transport and storage. As a result of the removal of the DCC fuse, the VGRS system will be inoperative and the steering wheel may be off-center.

After the DCC fuse is reinstalled, the VGRS system will be operative, but the steering wheel may become off-center by 5 – 10 degrees. This condition may also appear when the battery terminal has been disconnected.

Initialize the VGRS system following the procedure in this bulletin after installing the DCC fuse or when reconnecting the battery terminal.

**NOTE:**

**Do NOT adjust the steering wheel centering (i.e., do NOT adjust tie rod ends) before initialization of the VGRS system, or the steering may be off-center on the opposite side after initialization.**



- Applicable Vehicles**
- 2007 model year **LS 460** vehicles.

**Warranty Information**

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–



Required  
SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	<b>Lexus Diagnostic Tester Kit*</b> NOTE: <ul style="list-style-type: none"> <li>All components from this kit/set are required.</li> <li>12 Megabyte Diagnostic Tester Program Card (P/N 01002593–005) with version 13.4a Software (or later) is required.</li> </ul> 	LEX220036	1	8
2	<b>CAN Interface Module Kit*</b> NOTE: <ul style="list-style-type: none"> <li>All components from this kit/set are required.</li> </ul> 	01002744	1	8

\* Essential SSTs.

\*\* Drawer number in SST Storage System.

**NOTE:**

**Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards, or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.**

Initialization  
Procedure

1. Drive the vehicle on a straight road at 22 mph (35 km/h) or more for at least 5 seconds. At this point, the steering wheel will still remain off-center by 5 – 10 degrees.

**NOTE:**

**In this step, the neutral position of the steering wheel is recorded in the VGRS ECU memory.**

2. Perform normal cornering 2 – 3 times. The steering wheel position is automatically corrected in this step.
3. With the vehicle at a standstill, turn the steering wheel from lock to lock, then drive straight again, and the steering wheel should be centered.
4. Confirm the steering wheel is centered.
  - If the steering wheel is centered, initialization is complete. Go to step 5.
  - If the steering wheel is off-center, go to step 1.

**Initialization  
Procedure**  
(Continued)

5. Confirm initialization has been completed.
  - A. Access the VGRS Data List using the Lexus Diagnostic Tester.
  - B. Confirm the “STRAIGH ANG FLG” parameter reads “VALID.”

**NOTE:**

Prior to initialization, the “STRAIGH ANG FLG” parameter will read “INVALID.”  
When the VGRS initialization procedure is complete, the “STRAIGH ANG FLG” parameter will change to “VALID.”

- If “VALID” and steering is off-center, refer to the Technical Information System (TIS), 2007 model year LS 460 Repair Manual: *Steering Column: Variable Gear Ratio Steering: Calibration, Test Mode Procedure.*
- If “INVALID,” return to step 1 and perform driving procedure again.
- If “INVALID” returns again, check for VGRS system DTCs and diagnose the condition following the procedures found in the Repair Manual.