


Notchy Steering Feel at Highway Speeds (2WD)

Service Category Steering

Section Steering Gear/Linkage

Market USA

Lexus Supports
ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|---------------------------------------|---|
| 2006 | GS300 | Drive Type(s): 2WD VDS(s): BH96S |
| 2007 – 2011 | GS350, GS450H, GS460 | Drive Type(s): 2WD VDS(s): BC1KS, BC96S, BE1KS, BE96S, BL1KS, BL96S |
| 2006 – 2007 | GS430 | Drive Type(s): 2WD VDS(s): BN96S |
| 2006 – 2010 | IS F, IS250, IS250C, IS350, IS350C | Drive Type(s): 2WD VDS(s): BE262, BE5C2, BF5C2, BK262, BP262, BP5C2 |

Introduction

Some Lexus vehicles may exhibit an intermittent non-binding, notchy steering feel and/or the steering wheel will not smoothly self-center when driving at highway speeds. This condition may occur when changing lanes or when coming out of long sweeping turns at highway speeds. Please use the following repair procedure to address this condition.

Production Change Information

This TSIB applies to all 2006 model year GS300 and 2006 – 2007 model year GS430 vehicles, and to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

| MODEL | PLANT | PRODUCTION CHANGE EFFECTIVE VIN |
|--------|--------|---------------------------------|
| IS250 | TMK | JTHBF5C2#A2100245 |
| | TAHARA | JTHBF5C2#A5129058 |
| IS350 | TMK | JTHBE5C2#A2017710 |
| | TAHARA | JTHBE5C2#A5025228 |
| IS250C | TMK | JTHFF2C2#A2514603 |
| IS350C | | JTHFE2C2#A2505010 |

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Production Change Information (Continued)

| MODEL | PLANT | PRODUCTION CHANGE EFFECTIVE VIN |
|--------|--------|---------------------------------|
| IS-F | TAHARA | JTHBP5C2#A5008082 |
| GS350 | | JTHBE1KS#B0051371 |
| GS460 | | JTHBL1KS#B5004278 |
| GS450h | | JTHBC1KS#B5023128 |

Warranty Information

| OP CODE | DESCRIPTION | MODEL | TIME | OFF | T1 | T2 |
|---------|----------------------------------|-------|------|-------------|----|----|
| 444401 | Power Steering Gear Assembly R&R | IS | 1.3 | 44200-##### | 93 | 57 |
| | | GS | 1.8 | | | |

APPLICABLE WARRANTY

- This repair is covered under the Lexus Comprehensive Warranty. This warranty is in effect for 48 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

| MODEL | MODEL YEAR | PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME | QTY |
|---------------|------------|----------------------|---------------------|-------------------------------|-----|
| IS250/IS350 | 2006-2010 | 44200-53130 | 44200-53180 | Gear Assembly, Power Steering | 1 |
| IS-F | 2008-2010 | 44200-53130 | 44200-53180 | Gear Assembly, Power Steering | 1 |
| IS250C/IS350C | 2010 | 44200-30470 | 44200-53220 | Gear Assembly, Power Steering | 1 |
| GS300 | 2006 | 44200-30470 | 44200-53220 | Gear Assembly, Power Steering | 1 |
| GS430 | 2006-2007 | 44200-30470 | 44200-53220 | Gear Assembly, Power Steering | 1 |
| GS350 | 2007 | 44200-30470 | 44200-53220 | Gear Assembly, Power Steering | 1 |
| GS450H | 2007 | 44200-30550 | 44200-30820 | Gear Assembly, Power Steering | 1 |

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Parts Information (Continued)

| MODEL | MODEL YEAR | PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME | QTY |
|--------------|------------|----------------------|---------------------|---|-----|
| GS430/GS450H | 2007 | 44200-30560 | 44200-30830 | Gear Assembly, Power Steering (with Active Stabilizer Suspension) | 1 |
| GS350/GS460 | 2008-2011 | 44200-30610 | 44200-30880 | Gear Assembly, Power Steering | 1 |
| GS460/GS450H | 2008-2011 | 44200-30620 | 44200-30780 | Gear Assembly, Power Steering (with Active Stabilizer Suspension) | 1 |
| GS450H | 2008-2011 | 44200-30660 | 44200-30800 | Gear Assembly, Power Steering | 1 |

Required Tools & Equipment

| REQUIRED EQUIPMENT | SUPPLIER | PART NUMBER | QTY |
|---|----------|-----------------------------|-----|
| TIS Techstream* or Techstream Lite NOTE: Software version 5.10.029 or later is required. | ADE | TSPKG1 or TSLITEDLR01 | 1 |

NOTE

Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

| SPECIAL SERVICE TOOLS (SST'S) | PART NUMBER | QTY |
|-------------------------------|--------------------------------|-----|
| Ball Joint Puller | 09628-00011-01 | 1 |

* Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

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Repair Procedure

1. Conduct a road test to verify the steering feel condition.

Did the steering exhibit an intermittent non-binding, notchy steering feeling and/or steering wheel does not self-center condition when driving at highway speeds?

- YES – This TSIB DOES apply.

Go to Step 2 for power steering gear assembly replacement.

- NO – This TSIB does NOT apply. Refer to the applicable Repair Manual for diagnosis.

2. Remove the power steering gear assembly.

For complete removal procedures, refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

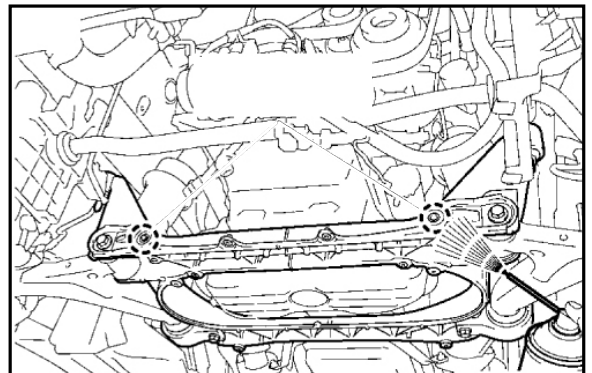
- [2006](#) 2WD GS300/430:
Steering – Steering Gear (for 2WD) – “Power Steering: Steering Gear (for 2WD): Removal”
- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) 2WD GS350/430/460:
Steering – Steering Gear (for 2WD) – “Power Steering: Steering Gear (for 2WD): Removal”
- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) GS450h:
Steering – Steering Gear – “Power Steering: Steering Gear: Removal”
- [2008](#) / [2009](#) / [2010](#) IS-F:
Steering – Steering Gear / Linkage – “Steering Gear/Linkage: Steering Gear: Removal”
- [2006](#) / [2007](#) / [2008](#) / [2009](#) / [2010](#) 2WD IS250/350:
Steering – Power Assist Systems – “Power Steering: Steering Gear (for 2WD): Removal”
- [2010](#) IS250C / IS350C:
Steering – Steering Gear / Linkage: “Steering Gear/Linkage: Steering Gear: Removal”

3. Degrease the tie rod ends, EPS spline, and cross member to EPS bolt contact surface.

NOTICE

Failure to degrease these components will prevent the proper amount of torque from being applied to their related attachment hardware.

Figure 1.



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Repair Procedure (Continued)

4. Install the NEW power steering gear assembly.
5. Inspect and adjust wheel alignment.
6. Initialize the rotation angle sensor and calibrate the torque sensor zero point.

For complete installation and initialization procedures, refer to TIS, applicable model and model year Repair Manual:

- [2006](#) 2WD GS300/430
Steering – Steering Gear (for 2WD) – *“Power Steering: Steering Gear (for 2WD): Installation”*
 - [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) 2WD GS350 / 430 / 460:
Steering – Steering Gear (for 2WD) – *“Power Steering: Steering Gear (for 2WD): Installation”*
 - [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) GS450h:
Steering – Steering Gear – *“Power Steering: Steering Gear: Installation”*
 - [2008](#) / [2009](#) / [2010](#) IS-F:
Steering – Steering Gear/Linkage – *“Steering Gear/Linkage: Steering Gear: Installation”*
 - [2006](#) / [2007](#) / [2008](#) / [2009](#) / [2010](#) 2WD IS250/350:
Steering – Power Assist Systems – *“Power Steering: Steering Gear (for 2WD): Installation”*
 - [2010](#) IS250C/IS350C:
Steering – Steering Gear/Linkage: *“Steering Gear / Linkage: Steering Gear: Installation”*
7. After the repair is complete, road test the vehicle to confirm the notchy steering feel condition is NO longer present.