

Slight Pull/Drift to the Right

Service Category Suspension

Section Alignment/Handling Diagnoses

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2015 - 2017	NX200T	
2018	NX300	
2015 - 2018	NX300H	

Introduction

Some 2015 – 2017 model year NX 200t, 2015 – 2018 model year NX 300h, and 2018 model year NX 300 vehicles may exhibit a slight pull/drift to the right. Some vehicles manufactured with excessive cross caster may cause this condition to occur. Follow the Repair Procedure in this bulletin to address this condition.

This Service Bulletin addresses a vehicle pull to the right condition which can be defined as one of the following when there are no outside factors affecting the vehicle dynamics (driven on a straight and flat road with good road condition and no significant wind, etc.).

- When driving the vehicle without exerting steering effort, the vehicle moves to the right.
- The vehicle does not drive straight ahead without the driver maintaining steering effort to the left.

NOTE

If the vehicle drives straight without steering effort but the steering wheel is NOT in the straight-ahead position, this may be a steering wheel off-center condition which is NOT addressed in this Service Bulletin.

Slight Pull/Drift to the Right

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
NX 300	TMK (Kyushu)	2WD	JTJYARBZ#J2106965
		AWD	JTJBARBZ#J2171508
NX 300h		2WD	JTJYWRBZ#G2013377
		AWD	JTJBjRBZ#J2090727
NX 200t		2WD	JTJYARBZ#H2085162
		4WD	JTJBARBZ#H2148776

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
ST1801	Preliminary Check, Road Test, and Inspect Alignment Measurement	1.6	51201-78010 51201-78020	3A	57
Combo A	Front Toe-In Adjustment	0.1			
Combo B	Front Camber Adjustment	0.7			
Combo C	Front Subframe Adjustment to Improve Caster	0.4			
Combo D	Rear Alignment Adjustment	0.2			

APPLICABLE WARRANTY

- This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 12 months or 12,000 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.

Repair Procedure

1. Confirm the condition exists.
 - A. Verify, repair, and/or adjust the following items BEFORE test driving the vehicle.
 - Tire pressure
 - Correct and matching tires for vehicle
 - Vehicle height per Repair Manual

Slight Pull/Drift to the Right

Repair Procedure (continued)

B. Road test the vehicle.

- If the vehicle has a slight pull/drift to the right, continue to step 2.
- If the vehicle has an off-center steering wheel or other non-related phenomenon, this bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

2. Confirm if the vehicle's cross caster is within Repair Manual specifications.

NOTE

Cross caster will generally pull to the lower measurement.

Refer to TIS, applicable model and model year Repair Manual:

- 2015 – 2017 NX 200t:
Suspension – Alignment/Handling Diagnosis – “Alignment/Handling Diagnosis: [Front](#) / [Rear](#) Wheel Alignment: Adjustment”
- 2015 – 2018 NX 300h:
Suspension – Alignment/Handling Diagnosis – “Alignment/Handling Diagnosis: [Front](#) / [Rear](#) Wheel Alignment: Adjustment”
- 2018 NX 300:
Suspension – Alignment/Handling Diagnosis – “Alignment/Handling Diagnosis: [Front](#) / [Rear](#) Wheel Alignment: Adjustment”

Is the cross caster outside of Repair Manual specifications?

- **YES** — See steps 3 – 5 for caster adjustment instructions.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Slight Pull/Drift to the Right

Repair Procedure (continued)

- Loosen the front crossmember assembly by loosening the fasteners as shown.

NOTE

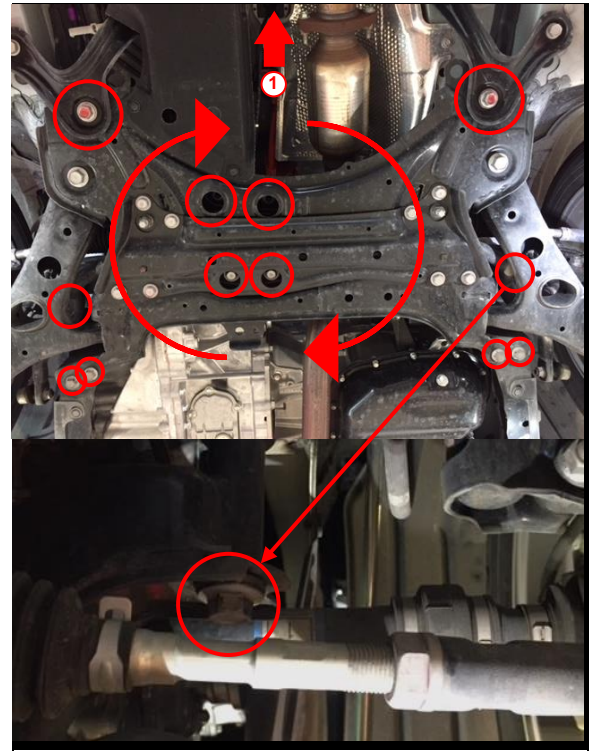
- ONLY loosen fasteners enough to be able to move the crossmember.
- Do NOT remove the fasteners.

- Shift the crossmember to adjust the front caster angle.

NOTE

Rotating the subframe assembly in the direction of the arrows as shown will increase the caster measurement on the RH side and reduce it on the LH side.

Figure 1.



1	Rear
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- Tighten the fasteners to Repair Manual specifications.
Refer to TIS, applicable model and model year Repair Manual:
 - 2015 – 2017 NX 200t:
Suspension – Alignment/Handling Diagnosis – [“Front Suspension: Front Suspension Member: Installation”](#)
 - 2015 – 2018 NX 300h:
Suspension – Alignment/Handling Diagnosis – [“Front Suspension: Front Suspension Member: Installation”](#)
 - 2018 NX 300:
Suspension – Alignment/Handling Diagnosis – [“Front Suspension: Front Suspension Member: Installation”](#)
- Confirm that ALL other alignment measurements are within specification and adjust as needed.
- AFTER alignment is complete, confirm that the vehicle no longer pulls/drifts to the right.