

Service Category Vehicle Interior

Section	Heating/Air Conditioning	Market USA	Lexus Supports ASE Certification
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#### Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2017 - 2019	GS F, GS350, GS450H, IS300, IS350, LX570, RC F, RC300, RC350		
2017	GS200T, IS200T, RC200T		

#### Introduction

Some 2017 – 2019 model year Lexus vehicles may exhibit one or more of the following conditions:

- Uneven temperature or air flow between the vents
- Little or no air flow from the vent(s)
- Improper MODE control function

Some vehicles may also exhibit one or more of the following Diagnostic Trouble Codes (DTCs):

- B1441 Air Mix Damper Control Servo Motor Circuit (Front Passenger Side Lower Air Mix)
- B1442 Air Inlet Damper Control Servo Motor Circuit
- B1443 Air Outlet Damper Control Servo Motor Circuit
- B1445 Passenger Side Cool Air Bypass Damper Control
- B1446 Air Mix Damper Control Servo Motor Circuit (Driver Side Lower Air Mix)
- B1447 Rear Air Mix Damper Control Servo Motor Circuit
- B1448 Passenger Side Face Servo Motor Circuit
- B1449 Rear Air Outlet Damper Control Servo Motor Circuit
- B1453 Driver Side Air Outlet Damper COOL Control Servo Motor Circuit
- B1454 Passenger Side Air Outlet Damper COOL Control Servo Motor Circuit
- B1455 Driver Side Air Outlet Damper FOOT/DEF Control Servo Motor Circuit
- B1457 Driver Side Air Outlet Damper Control Servo Motor Circuit
- B1458 Passenger Side Air Outlet Damper Control Servo Motor Circuit
- B1486 Driver Side Air Outlet Damper Control Servo Motor Circuit
- B1488 Rear Air Mix Damper Control Servo Motor Circuit (Front Passenger)

Follow the Repair Procedure in this bulletin to address these conditions.

#### **Production Change Information**

This bulletin applies to the following vehicles:

- 2017 2019 IS200t, IS300, and IS350 vehicles produced AFTER the Production Change Effective VINs shown below.
- 2017 2019 RC200t, RC300, and RC350 vehicles produced **AFTER** the Production Change Effective VINs shown below.
- 2017 2019 RC F vehicles produced AFTER the Production Change Effective VIN shown below.
- 2017 2019 GS200t and GS350 vehicles produced AFTER the Production Change Effective VINs shown below.
- 2017 2019 GS450h vehicles produced AFTER the Production Change Effective VIN shown below.
- 2017 2019 GS F vehicles produced AFTER the Production Change Effective VIN shown below.
- 2017 2019 LX570 vehicles produced AFTER the Production Change Effective VIN shown below.

MODEL	DRIVETRAIN	FRAME TYPE	PRODUCTION CHANGE EFFECTIVE VIN
IS200t	2WD	ASE30L	JTHBA1D2#H5056884
IS300	AWD	GSE37L	JTHCM1D2#H5024594
IS350	2WD	GSE31L	JTHBE1D2#H5030855
15550	AWD	GSE36L	JTHCE1D2#H5014302
RC200t	014/5	ASC10L	JTHHA5BC#H5006941
RC350	2WD	GSC10L	JTHHE5BC#H5017147
RC350	AWD	GSC15L	JTHSE5BC#H5008146
RC300	AVID	GSC16L	JTHSM5BC#H5003560
RC F		USC10L	JTHHP5BC#H5006678
GS200t	2WD	ARL10L	JTHBA1BL#HA005701
GS350		GRL12L	JTHBZ1BL#HA011922
63350	AWD	GRL16L	JTHCZ1BL#HA007257
GS450h	2WD	GWL10L	JTHBS1BL#HA002388
GS F		URL10L	JTHBP1BL#HA002488
LX570	4WD	URJ201L	JTJHY7AX#H4249886

#### Warranty Information

OP CODE	DESCRIPTION		OFP	T1	T2
AC1922	Air Conditioning Amplifier Reprogramming	0.5	88650-#####*	72	41

\*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP for the vehicle being repaired by searching Air Conditioning, Amplifier (88650) in the Electronic Parts Catalog using the VIN filter.

#### **APPLICABLE WARRANTY**

- This repair is covered under the Lexus Basic 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.

#### **Required Tools & Equipment**

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*		TSADVUNIT	- 1
Techstream 2.0		TS2UNIT	
Techstream Lite	ADE	TSLITEPDLR01	
Techstream Lite (Green Cable)	am Lite (Green Cable)		

\*Essential SST.

#### NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 15.00.028 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit <u>techinfo.toyota.com</u> for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Battery Diagnostic Tool	<u>DCA-8000P T</u>	1

\*Essential SST.

#### NOTE

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

#### **Calibration Information**

MODEL	MODEL YEAR	CALIBRATION ID	
		PREVIOUS	NEW
IS	2017	886505340301	<u>886505379001</u>
15	2018 – 2019	886502443301	<u>886505387001</u>
RC	2017	886505340301	<u>886505379001</u>
RC	2018 – 2019	886502443301	<u>886505387001</u>
RC F	2017	886505340301	<u>886505379001</u>
KU F	2018 – 2019	886502443301	<u>886505387001</u>
GS	2017 – 2019	886503AM1000	996502520004
63		886503A52002	<u>886503F39001</u>
	2017	886503AL3000	886503FA2001
GS HV		886503A39002	000303FA2001
	2018 – 2019	886503AL3101	<u>886503F62001</u>
GS F	2017 – 2019	886503AM1000	886503F39001
GSF		886503A52002	<u>000005F39001</u>
		8865060Q2201	
LX	2017	8865060Q2101	<u>8865060W0001</u>
		8865060Q1001	
	2018 – 2019	8865060Q2301	<u>8865060X2001</u>

#### **Repair Procedure**

- 1. Confirm the vehicle exhibits one or more of the following conditions:
  - Uneven temperature or air flow between the vents.
  - Little or no air flow from vent(s).
  - Improper MODE control function.

Does the vehicle exhibit ANY of the above listed conditions?

- YES Go to step 3.
- NO Continue to step 2.

#### **Repair Procedure (continued)**

- 2. Using Techstream, check for the following stored DTCs:
  - B1441 Air Mix Damper Control Servo Motor Circuit (Front Passenger Side Lower Air Mix).
  - B1442 Air Inlet Damper Control Servo Motor Circuit.
  - B1443 Air Outlet Damper Control Servo Motor Circuit.
  - B1445 Passenger Side Cool Air Bypass Damper Control.
  - B1446 Air Mix Damper Control Servo Motor Circuit (Driver Side Lower Air Mix).
  - B1447 Rear Air Mix Damper Control Servo Motor Circuit.
  - B1448 Passenger Side Face Servo Motor Circuit.
  - B1449 Rear Air Outlet Damper Control Servo Motor Circuit.
  - B1453 Driver Side Air Outlet Damper COOL Control Servo Motor Circuit.
  - B1454 Passenger Side Air Outlet Damper COOL Control Servo Motor Circuit.
  - B1455 Driver Side Air Outlet Damper FOOT/DEF Control Servo Motor Circuit.
  - B1457 Driver Side Air Outlet Damper Control Servo Motor Circuit.
  - B1458 Passenger Side Air Outlet Damper Control Servo Motor Circuit.
  - B1486 Driver Side Air Outlet Damper Control Servo Motor Circuit.
  - B1488 Rear Air Mix Damper Control Servo Motor Circuit (Front Passenger).

Are ANY of the DTCs listed above present?

- YES Continue to step 3.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

#### Repair Procedure (continued)

3. Flash reprogram the air conditioning amplifier assembly.

#### NOTE

The air conditioning amplifier flash reprogram is only performed one time if the air conditioning amplifier has NOT been flash reprogrammed previously.

Follow the procedure outlined in Service Bulletin <u>L-SB-0001-18</u>, *Techstream ECU Flash Reprogramming Procedure* and flash the air conditioning amplifier with the NEW calibration file update.

#### NOTICE

- Damage to the air conditioning amplifier may occur if the correct battery charge mode setting is NOT used.
- Power Supply Mode is used to maintain battery voltage at 13.5V while flash reprogramming.
- For details on how to use the DCA-8000 battery diagnostic tool, refer to the <u>DCA-8000 Instruction Manual</u> located at TIS – Diagnostics – Tools & Equipment – Battery Diagnostics.
- 4. Confirm the condition(s) is (are) no longer present.
  - A. Does the vehicle exhibit ANY of the conditions listed in step 1?
    - YES This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
    - **NO** Continue to sub-step B.
  - B. Using Techstream, check for ANY stored DTCs.

Are ANY of the DTCs in step 2 present?

- **YES** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- **NO** The repair is complete.