

CLEXUS	Tech Tip L-	TT-0284-20		March 26, 2020	
Subject Millimeter Wave I Compensation Service Category	Radar Sensor Flo	oor Slope	Market USA		
Engine/Hybrid System		Cruise Control			
Applicability Lexus Models with Manually Adjusted Front Millimeter Wave Radar Sensor					
APPLICABLE VEHICLES					
2006-2015	IS250	2006-2016	IS350		
2010-2015	RX450H	2006	GS300		
2013-2015	ES300H	2010-2015	IS250C		
2008-2014	IS F	2008-2011	GS460		
2008-2016	LS600H	2007-2015	ES350		
2011-2017	CT200H	2007-2011, 2013- 2015	GS450H		
2008-2011, 2013- 2015	LX570	2007-2017	LS460		
2015-2017	RC350	2015-2017	RC F		
2015-2017	NX200T	2006-2007	GS430		
2016-2017	RC200T	2010-2012	HS250H		
2010-2015	IS350C	2007-2011, 2013- 2015	GS350		
2010-2019	GX460	2011-2015	RX350		
2016	IS200T	2015-2017	NX300H		

#### CONDITION

2016-2017

For proper calibration of the millimeter wave radar sensor, the vehicle must be on a level surface. If a level surface is not available, this tech tip should be used in conjunction with the repair manual to set the angle of the front millimeter wave radar sensor and reflector height before performing beam axis adjustment.

#### RECOMMENDATIONS

#### PREPARE VEHICLE FOR CALIBRATION

RC300

REFER TO THE APPLICABLE VEHICLE'S REPAIR MANUAL FOR CALIBRATION PREPARATION •

C	Tech Tip L-TT-0284-20	March 26, 2020				
<b>Com</b> Applicability	meter Wave Radar Sensor Floor Slope pensation	Market USA				
Lexus	Models with Manually Adjusted Front Millimeter Wave Radar	Sensor				
RECO	MMENDATIONS					
DETE	DETERMINE FLOOR SLOPE AND SET VERTICAL ANGLE OF MILLIMETER WAVE RADAR SENSOR					
	Vehicle Front Upward slope Ownward Stope Downward Stope	slope				
1 Short Front Floor Floor Floor						
FLOOR SLOPE AND VERTICAL ANGLE CALIBRATION VIDEO						
	STALL THE LASER LEVEL ONTO THE TRIPOD Install the tripod head attachment onto the base of the laser level.					
B.	Engage the tripod head attachment onto the tripod and lock it in position. SST: 01816-00103 (Laser Level) <u>DEMO VIDEO</u> 01816-00104 (Tri-pod)	Vehicle Front				
2. M	EASURE THE FLOOR SLOPE ON BOTH SIDES OF VEHICLE	Self-leveling laser				
A.	Place the tripod and laser approximately 6 ft. away from the side of the vehicle.	-Center of the				
В.	Level the tripod base and head using the built-in bubble levels.	wheel				
C.	Turn on the laser and ensure that the laser switch is placed in the UNLOCKED position, so it can automatically level.	99				
D.	Measure the distance from the floor to the laser line at the vertical center of the front wheel and record the value.					
	NOTE: Measure using either inches or millimeters.					
E.	Measure the distance from the floor to the laser line at the vertical center of the rear wheel and record the value.					
F.	Repeat steps A-E for the opposite side.	NE P				



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Subject	Market
Millimeter Wave Radar Sensor Floor Slope	USA
Compensation	
Applicability	
Lexus Models with Manually Adjusted Front Millimeter Wave Radar Sensor	
RECOMMENDATIONS	

## 3. CALCULATE VERTICAL ANGLE FOR MILLIMETER WAVE RADAR SENSOR

A. Open the slope calculator link, select the appropriate vehicle from the dropdown, and enter the measured values at each wheel in the correct locations.

NOTE: Ensure the correct measurement value (inches or mm) is selected prior to calculating.

- B. Press the finalize button and then press calculate.
- C. The sheet will calculate the required vertical angle and reflector height adjustment based on the floor slope. Record these readings.

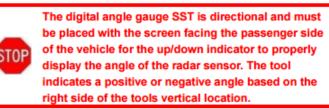
## **SLOPE CALCULATOR LINK**

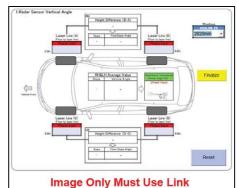
## 4. SET VERTICAL ANGLE OF MILLIMETER WAVE RADAR SENSOR

- A. Clean the top of the radar sensor surface and SST "Attachment A" mounting surfaces of any dust and debris.
- B. Place "Attachment A" (short or long depending on available clearance) on top of the radar sensor calibration surface as shown.
- C. Place the digital angle gauge on "Attachment A" with the screen facing the passenger side of the vehicle and retrieve sensor angle.

NOTE: Once the digital angle gauge has been powered on, the unit must be set to "Absolute Mode", ABS will be displayed in the upper right corner of the display.

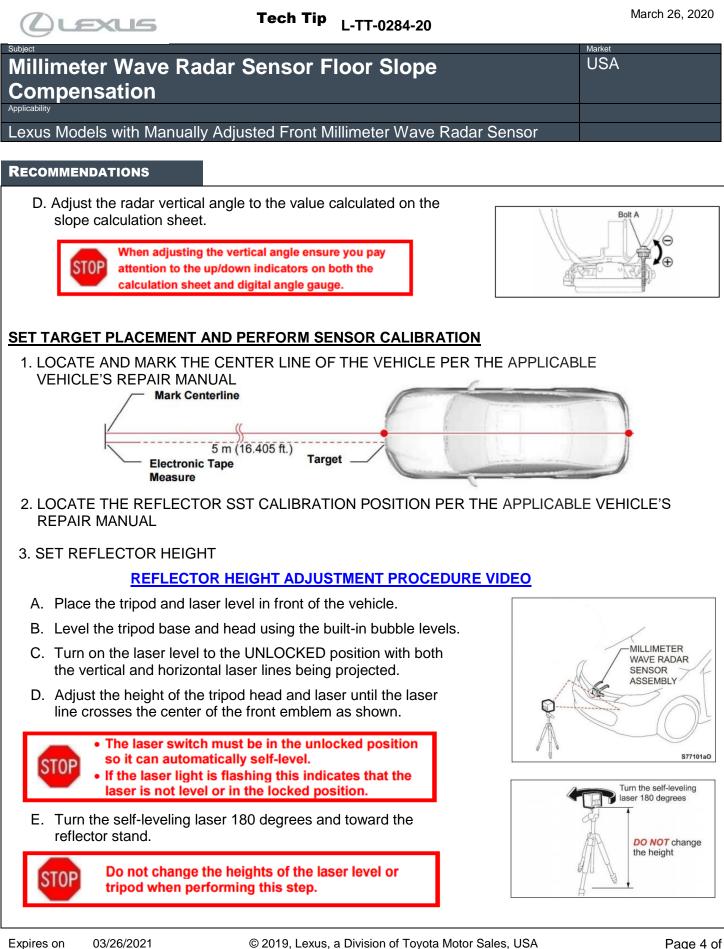
### SST: 09989-00010-01 or 09989-00010-L (Attachment A) 01815-00102 (Digital Angle Gauge) <u>DEMO VIDEO</u>



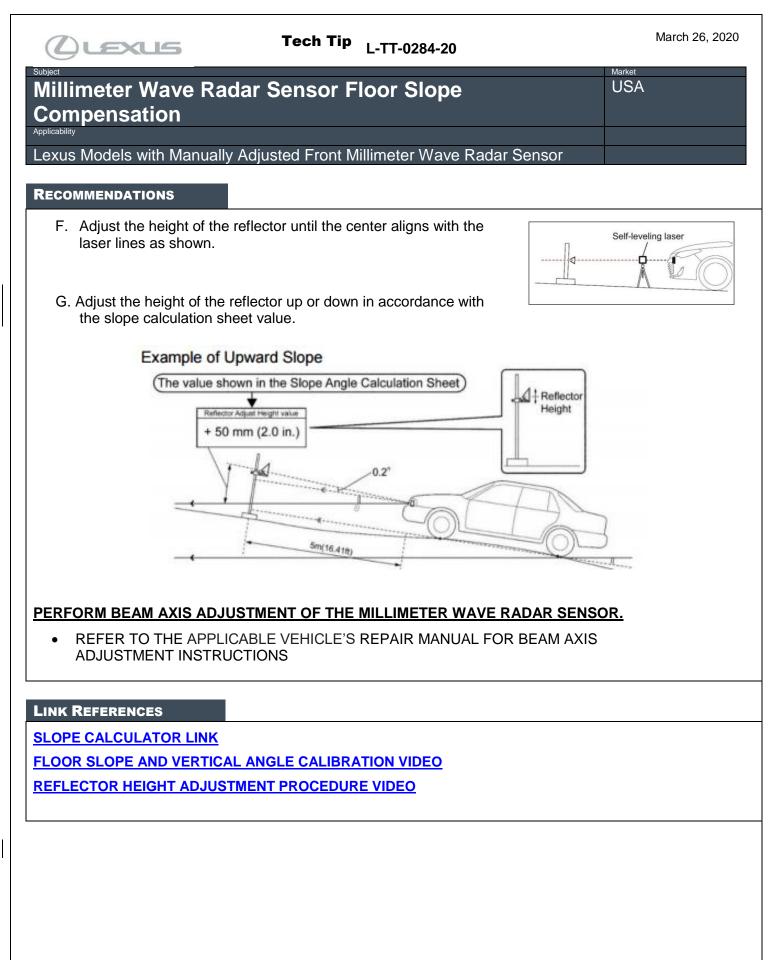








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