



Azimuth Calibration
 986 West 17th Street
 Unit 100A
 Costa Mesa, CA 92627
 (951) 230-8862
 CostaMesa@AzimuthCalibration.com
 www.AzimuthCalibration.com

Estimate #3416

Created: 2/2/2024 11:37 AM PST
 Payment Term: On Receipt
 Service Writer: Vince Renteria



2022 Honda Accord Sport
 VIN: 1HGCV1F31NA094950
 License Plate: 9EFZ860

Customer Comments
 RO# 50086

Honda/Acura - Post-Repair Required Calibrations

INDICATIONS:
 The following calibration indications apply to all Honda/Acura models per OEM position statements & service information:
 - Any camera or radar R/I or R/R requires calibration, except for backup camera.
 - After ANY structural repair or SRS deployment, the windshield camera & front radar must be calibrated.
 - After REAR structural repairs, the BSI radars must be calibrated.
 - After ANY passenger door repair, R/I or adjustment, the LaneWatch camera must be calibrated.
 - After ANY collision, the SRS system, seat frames, sensors, & seatbelts must be scanned & inspected.
 Seat covers must not be installed on vehicles with seat airbags

PREREQUISITES:
 The following prerequisites apply to all Honda/Acura models, per OEM position statements & service information:
 - An alignment check must be performed prior to all radar & windshield camera calibrations, especially after a collision. The alignment should be corrected if it is out of specification. Includes tire pressures & steering angle sensor (SAS) reset.
 - OE parts must have been installed whenever related to the vehicle safety and ADAS systems.
 - The vehicle must have no additional load & a full tank of fuel.
 Pre & Post Diagnostic scan always performed as part of service procedures, included.

Description	Subtotal
1 Tire Pressure Equalization & Tread Analysis, Ride Height Check, Fuel Weight Compensation <i>Note: PROCEDURE: Inflate tires to specified & equal pressures. Must be inflated to cold-temp spec when tires are cold. Laser-scan each tire for tread depth. Ride height check. Analysis report provided with invoice, Tire pressure, tread measuring and ride height are a prerequisite for some OBD modules, most ADAS calibrations, and all alignment measurements. Calculate fuel level and tank capacity. Compensate for delta by placing appropriate weight over the fuel tank to simulate a full tank of fuel.</i>	
2 Millimeter Wave Radar Procedure Type: Static Calibration (Horizontal Radar Aim), Vertically Align Sensor (Vertical Radar Aim) Location: Front Bumper Tools Required: Unobstructed, Flat Surface, Manufacturer-Specific Instruments, Scan Tool Diagnostics, Workshop Provided Instruments, Calibration Targets Repair/Installation Triggers: Front Bumper, Structural Body Parts Responsible For: Adaptive Cruise Control (ACC) with Low-Speed Follow, Collision Mitigation Braking System (CMBS) + FCW forward collision mitigation, Collision Mitigation Braking System (CMBS) front pedestrian impact prevention The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the Millimeter Wave Radar when the following occurs: Front Bumper (if damaged within 300mm of radar) is overhauled (Line 7) Front Bumper (if damaged within 300mm of radar) is replaced (Line 8) Front Bumper (if damaged within 300mm of radar) is repaired (Line 19) Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Lines 10, 11, 29, 63,	



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88, 119)

Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Lines 66, 113, 136, 167, 168)

Note: PREREQUISITES:

Vehicle must be on a flat & level surface with a minimum clear, open space based on OEM requirements.

PROCEDURE:

Must use Honda HDS vehicle interface device or equivalent. Use Honda prism reflector to aim front radar unit horizontally & vertically per service information. Test drive system to ensure proper performance.

3 Forward Collision Warning Camera

Procedure Type: Static Calibration (FCW / LDW Camera / Multipurpose Camera Unit Calibration)

Location: Windshield

Tools Required: Unobstructed, Flat Surface, Manufacturer-Specific Instruments, Scan Tool

Diagnostics, Workshop Provided Instruments, Calibration Targets

Repair/Installation Triggers: Structural Body Parts

Responsible For: Adaptive Cruise Control (ACC) with Low-Speed Follow, Collision Mitigation Braking System (CMBS) + FCW forward collision mitigation, Lane departure prevention, Collision Mitigation Braking System (CMBS) front pedestrian impact prevention, Traffic Sign Recognition System (TSR)

The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the Forward Collision Warning Camera when the following occurs:

Structural Body Parts (if damaged beyond minor cosmetic abrasion) is replaced (Lines 10, 11, 29, 63, 88, 119)

Structural Body Parts (if damaged beyond minor cosmetic abrasion) is repaired (Lines 66, 113, 136, 167, 168)

Note: PREREQUISITES:

Vehicle must be on a flat & level surface with a minimum of clear, open space based on OEM requirements. Vehicle is not facing any direct light sources.

Do not put any objects on the instrument panel.

Remove all cargo from the vehicle except the tool kit and the spare tire.

Make sure that there are no stains, dust, or dirt on the lens of the multipurpose camera unit and the windshield area where the camera is mounted.

Make sure that all doors are closed.

Make sure the suspension has not been modified.

Make sure all the tire sizes are correct and that their pressure is correct.

Make sure the fuel tank is full.

Make sure the steering wheel is pointed straight ahead, and do not turn it after setting the vehicle.

Shift the shift lever to P (CVT) or neutral (M/T) position, and apply the parking brake.

PROCEDURE:

Must use Honda HDS vehicle interface device or equivalent. Use Honda alignment & target set to place targets per service information. Test drive system to ensure proper performance.

4 Steering Angle Sensor

Procedure Type: Reset (Steering Angle Sensor Neutral Position Clear)

Location: Steering Column

Tools Required: Scan Tool Diagnostics

Repair/Installation Triggers: Wheel Alignment, Steering System, Battery

The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the Steering Angle Sensor when the following occurs:



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Wheel Alignment is performed (Lines 82, 84, 85)
 Steering System is repaired (Line 161)
 Battery is installed (Line 162)
Note: Steering Angle Sensor & Vehicle Stability Control/Vehicle Stability Assist Sensor.
These modules include multi-axis gyroscopes that are typically mounted underneath the center console and on the steering column. Many ADAS systems use input from these sensors, and they must be reset prior to the calibration.
REQUIREMENTS: Vehicle must be on flat & level surface.

5 Vehicle Stability Assist Sensor
 Procedure Type: Reset (VSA Sensor Neutral Position Memorization)
 Repair/Installation Triggers: Wheel Alignment
 The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the Vehicle Stability Assist Sensor when the following occurs:

Wheel Alignment is performed (Lines 82, 84, 85)
Note: Steering Angle Sensor & Vehicle Stability Control/Vehicle Stability Assist Sensor.
These modules includes multi-axis gyroscopes that are typically mounted underneath the center console and on the steering column. Many ADAS systems use input from these sensors, and they must be reset prior to the calibration.
REQUIREMENTS: Vehicle must be on flat & level surface. Vehicle must have correct equal tire pressures, with no abnormal wear, good tire age, and equal tread.

6 Seat Weight Sensor
 Procedure Type: Reset (Zero Point Calibration and Sensitivity Check) or Operation Check (Front Passenger's Weight Sensor Output Check After a Vehicle Collision)
 Repair/Installation Triggers: Vehicle is involved in a collision
 The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the Seat Weight Sensor when the following occurs:

Vehicle is involved in a collision
Note: REQUIREMENTS: Vehicle must be on flat & level surface. Vehicle must have correct & equal tire pressures.
PROCEDURE: Place passenger seat in specified position. Remove all objects on the seat, including under the seat. Use specified & calibrated weight(s) in specified location on the seat Initialize sensor relearn and/or zero-point relearn.
NOTE: Includes tire pressure equalization.

7 SRS Unit
 Procedure Type: Vehicle Diagnostics
 Repair/Installation Triggers: Vehicle is involved in a collision
 The 2022 Honda Accord Sedan Sport repair manual states that an operation is required for the SRS Unit when the following occurs:

Vehicle is involved in a collision
Note: PROCEDURE: Verify proper operation of the seat belt reminder lamp with the belt buckled and with the belt unbuckled. Verify automatic passenger airbag arm/disarm function is operational. Use HDS to read SRS module deployed history.

8 Dynamic Systems Verification (DSV)
Note: Used for DTC setting when validating system performance and diagnostics of system failures.



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<p><i>Includes pre-calibration and post-calibration rolling road cycles to inspect for uncalibrated sensors, and compare driving behavior between sessions to confirm calibration accuracy. Vehicles cannot self-diagnose an inaccurate calibration, and it may not produce a DTC. The system will continue to function, but may behave erratically and/or place the vehicle into dangerous situations.</i></p> <p>REQUIREMENTS: Vehicle must be on a road with a minimum of 3 lanes, with visible lane markings, multiple vehicles, and multiple road signs.</p> <p>PROCEDURE: Test all ADAS systems: Adaptive Cruise Control, Forward Collision Warning, Active Lane Centering, Lane Keep Assist, Lane Departure Warning, Lane Change Assist, Blind Spot Monitor, Cross-Traffic Alert, Surround View Monitor, Parking Assist, Backup Assist.</p>	
9	Deduct for Overlap - Multiple Calibrations
Total:	

Estimates provided are an approximation of timing and charges to you for the services requested. They are based on the anticipated work to be done. It is possible for unexpected complications to cause some deviation from the original quote. You hereby authorize the repair work described in this estimate to be done along with the procurement of the necessary material(s), including permission to operate the vehicle for on-road testing or inspection. If any additional repairs or diagnostics/troubleshooting are required, we will prepare a revised work order providing the cost of additional parts and labor and total revised cost. We do not provide parts.

Deposits are non-refundable. No returns or refunds on special ordered items or electrical parts. Warranty for customer supplied parts is the responsibility of the original purchaser.

You agree that we are not responsible for loss or damage to your vehicle, including loss of articles left in the vehicle, including, without limitation, in case of fire, theft, or any other cause(s) beyond our control.

We are not responsible for any delays caused by unavailability of parts or delays in delivery of parts by the supplier or transporter. You have the right to know before authorizing any additional repairs what those repairs will be and what they will cost. If required repairs exceed the authorized estimated amount, we must obtain your approval to perform the repairs. We will keep you informed and perform only repairs authorized by you.

Parts	\$0.00
Labor	[REDACTED]
Subtotal	[REDACTED]
Tax	\$0.00
Grand Total	[REDACTED]
Paid To Date	(\$0.00)
REMAINING BALANCE	
	[REDACTED]

Signature _____