

Subject Steering Recalibration After Abnormal Steering Sensation or Battery Disconnect		Market USA
Service Category Steering	Section Power Assist Systems	
Applicability 2019-2020 RAV4 and RAV4 HV		

APPLICABLE VEHICLES

2019-2020	RAV4	2019-2020	RAV4 HV
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CONDITION

Some customers may experience an abnormal steering sensation (“pulling”, “drifting”). Condition may be more pronounced with ADAS systems (LTA, LKA, DRCC) turned on or after a cold soak.

Steering Angle value displayed in Techstream may be greater than $\pm 3^\circ$ off when the steering wheel is held straight.

Every time the vehicle’s battery is disconnected or discharged, the Steering Sensor Zero Point Calibration and Steering Angle Neutral Point memorization must be performed.

RECOMMENDATIONS

1. Check for DTCs – if found, proceed with the repair recommended in the Repair Manual.
2. If no DTCs are found, proceed with the Steering Sensor Zero Point Calibration described in RM100000001FOLC (Link Below):
 - Steering Sensor Zero Point Calibration Sequence includes:
 - Driving vehicle straight at speed (>10 mph for Gas models, or >22 mph for HV models) for a minimum time (>1 second for Gas models, or >5 seconds for HV models)
3. After performing the Steering Sensor Zero Point Calibration (above) proceed with memorizing the Steering Angle Neutral Point described in RM100000001FAJ7 (Link Below):
 - Memorizing the Steering Angle Neutral Point includes:
 - Fully turning the steering wheel lock-to-lock on level ground.
4. After performing both calibration sequences described above, confirm that the abnormal steering sensation has been corrected.

LINK REFERENCES

1. [PRE-COLLISION: PRE-COLLISION SYSTEM: INITIALIZATION; 2019 - 2020 MY RAV4 RAV4 HV \[11/2018 - ???????\]](#)
2. [PARK ASSIST / MONITORING: PARKING ASSIST MONITOR SYSTEM: INITIALIZATION; 2019 - 2020 MY RAV4 RAV4 HV \[11/2018 - ???????\]](#)