

**2015-2017MY Sedona
Turn Signal Misdirection
Basis of Safety Recall Determination 573.6(c)(6)**

May 21, 2021	NHTSA's Office of Defects Investigation (ODI) makes an inquiry to Kia North America (Kia NA) about VOQs that potentially relate to turn signal malfunctions.
May 21-June 9, 2021	Kia NA Safety Office conducts preliminary field data analysis and identifies potential issue with turn signal misdirection in the 2015-2016MY Sedona vehicles. Seven (7) warranty-returned multifunction switch assemblies collected. Kia NA Safety Office duplicates intermittent turn signal inoperative in one (1) collected part but unable to duplicate turn signal misdirection in any of the parts. All seven (7) parts sent to Kia Corporation (Kia HQ) for further evaluation and testing.
June 16, 2021	Kia NA Safety Office provides update to ODI during monthly meeting regarding the status of its evaluation. Kia NA continues to collect additional warranty-returned multifunction switch assemblies and advises ODI it is planning to extend the warranty to 15 years/unlimited miles to expedite parts collection for further evaluation.
July 7-9, 2021	Kia NA notifies its dealers and sends owner notification letters extending the warranty for the multifunction switch assembly in the 2015-2016MY Sedona to 15 years, unlimited miles.
July 14, 2021	Kia NA Safety Office provides update to ODI regarding Kia HQ's parts investigation status and informs ODI that Kia HQ unable to duplicate any turn signal malfunction, including misdirection. Investigation continues.
July 14-August 11, 2021	Kia NA continues to collect warranty-returned multifunction switch assemblies and sends parts to independent engineering firm and Kia HQ for further testing. On August 11, 2021, Kia NA Safety Office provides further update to ODI during monthly meeting and advises despite multiple parts testing programs, the misdirection issue cannot be duplicated. Investigation continues.
August 16, 2021-September 1, 2021	Kia HQ expands investigation to other Kia models and components to determine whether similar misdirection issue exists. Kia HQ identifies that the 2017MY Sportage uses same multifunction switch as the 2015-2017MY Sedona but has no similar misdirection warranty claims trend. Kia HQ determines that the 2017MY Sportage also shares a similar Smart Junction

	<p>Box (SJB) logic as the 2015-2017MY Sedona but are produced by different suppliers. Kia HQ’s investigation identifies that the SJB software logic in the 2015-2017MY Sedona may not properly interpret the signals received from the multifunction switch in certain circumstances. Kia HQ confirms SJB software logic was improved during latter part of 2017 Sedona production. Based on collected information, Kia HQ continues efforts to duplicate turn signal misdirection concern.</p>
September 8, 2021	<p>Kia NA Safety Office provides update to ODI during its monthly meeting and explains that the turn signal misdirection is most likely caused by the SJB software logic.</p>
September 9, 2021	<p>Kia HQ completes vehicle testing in chamber at high-temperature to assess functionality of multifunction switch with the current SJB software logic and duplicates misdirection issue. Kia HQ also completes same testing with improved SJB logic and confirms no misdirection issue. Kia HQ provides test results to Kia NA Safety Office.</p>
September 10, 2021	<p>Kia NA decides to conduct safety recall to address turn signal misdirection issue. 369 warranty claims, 44 customer complaints and 24 techline reports. No fatalities, injuries, crashes, or fires.</p>