

NVH Diagnostic Report

Report Date
April 18, 2021

Record Name
2013 Nissan Sentra first drive

Record Date
2021-04-18 11:52:39

Record Length
12:09.5

Vehicle Data:

- Manufacturer: Nissan
- Year: 2013
- Model: Sentra
- Powertrain: Front Wheel Drive
- Number of Cylinders: 4.0
- Tire Diameter: 24.877952889238987
- Front Axle Gear Ratio: 3.52
- Transmission Speeds: 2

Relevant Settings:

- Amplitude Threshold: 0.001g

Diagnostic Results

The diagnosis shown below is the primary vibration detected. Repair this vibration first and then re-test for additional vibrations if needed.

3rd Order Tire Speed Related Vibration (T3)

Definition: Third order tire order speed related vibrations cause three shakes or disturbances for each revolution of the tire. These vibrations are usually caused by something spinning the same speed as the tire that is out-of-round. There are over 77 conditions that can cause a tire speed related vibration.

Totals

Tire Speed Related Vibrations

Order	Times Detected	Average Amplitude (g)
2nd	21	0.088
3rd	365	0.259

Engine Speed Related Vibrations

Order	Times Detected	Average Amplitude (g)
1st	205	0.131
2nd	21	0.125

Vibration Breakdown By Vehicle Speed

The NVH app takes samples of the vibrations on your vehicle twice per second.

- The "Count" column shown below indicates the number of times each type of vibration was detected in that particular vehicle speed range.
- The "Count (Time) Spent in Range" column shows the number of half second intervals spent driving at that vehicle speed range, and the amount of time spent driving at that vehicle speed range.
- The "Percentage" column shows the percentage of time the vibration was detected at that vehicle speed range. It is possible for this to exceed 100% if multiple instances of the vibration were detected in the same half second interval.

Tire Speed Related Vibration Breakdown

2nd Order Tire Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
50-54 MPH	3	220 (01:49.5)	1.36%	0.094
55-59 MPH	18	100 (00:49.5)	18.00%	0.087

3rd Order Tire Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
55-59 MPH	41	100 (00:49.5)	41.00%	0.122
60-64 MPH	96	154 (01:16.5)	62.34%	0.227
65-69 MPH	154	183 (01:31.0)	84.15%	0.314
70-74 MPH	74	91 (00:45.0)	81.32%	0.265

Engine Speed Related Vibration Breakdown

1st Order Engine Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
10-14 MPH	9	54 (00:26.5)	16.67%	0.129
25-29 MPH	2	64 (00:31.5)	3.13%	0.081
30-34 MPH	32	109 (00:54.0)	29.36%	0.122
35-39 MPH	21	82 (00:40.5)	25.61%	0.126
40-44 MPH	54	106 (00:52.5)	50.94%	0.111
45-49 MPH	55	130 (01:04.5)	42.31%	0.159
50-54 MPH	15	220 (01:49.5)	6.82%	0.125
55-59 MPH	13	100 (00:49.5)	13.00%	0.155
60-64 MPH	2	154 (01:16.5)	1.30%	0.104
65-69 MPH	2	183 (01:31.0)	1.09%	0.102

2nd Order Engine Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
5-9 MPH	6	32 (00:15.5)	18.75%	0.092
65-69 MPH	12	183 (01:31.0)	6.56%	0.142
70-74 MPH	3	91 (00:45.0)	3.30%	0.123

This report, along with the data and diagnoses it contains, was generated by the NVH For Android app (version 3.2.2 (72)), created by Vibrate Software, Inc.

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