

NVH Diagnostic Report

Report Date
December 11, 2022

Record Name
12/11/22

Record Date
2022-12-11 14:09:14

Record Length
10:43.5

Vehicle Data:

- Manufacturer: Unlisted Vehicle
- Year: Unlisted Vehicle
- Model: Unlisted Vehicle
- Powertrain: All Wheel Drive
- Number of Cylinders: 8
- Tire Diameter: 28.58
- Rear Axle Gear Ratio: 3.36
- Front Axle Gear Ratio: 3.36
- Transfer Case Gear Ratio: 1.0
- Transmission Speeds: 8

Relevant Settings:

- Amplitude Threshold: 0.01g
- Vehicle Speed Threshold: 35.0 MPH

Diagnostic Results

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

(T1) 1st Order Tire Speed Related Vibration

Definition: First order tire speed related vibrations cause one shake or disturbance for each revolution of the tire. There are over 77 conditions that can cause a tire speed related vibration.

Totals

Tire Speed Related Vibrations

Order	Times Detected	Average Amplitude (g)
1st	168	0.01

Driveshaft Speed Related Vibrations

Order	Times Detected	Average Amplitude (g)
2nd	1	0.01
3rd	3	0.01

Engine Speed Related Vibrations

Order	Times Detected	Average Amplitude (g)
4th	20	0.04

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

1st Order Tire Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
50-54 MPH	24	172 (01:26.0)	13.95%	0.01
55-59 MPH	126	392 (03:16.0)	32.14%	0.01
60-64 MPH	16	82 (00:41.0)	19.51%	0.01
65-69 MPH	2	84 (00:42.0)	2.38%	0.01

Driveshaft Speed Related Vibration Breakdown

2nd Order Driveshaft Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
70-74 MPH	1	52 (00:26.0)	1.92%	0.01

3rd Order Driveshaft Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
40-44 MPH	3	77 (00:38.5)	3.90%	0.01

Engine Speed Related Vibration Breakdown

4th Order Engine Speed Related Vibration Breakdown

Vehicle Speed	Count	Count (Time) Spent in Range	Percentage	Average Amplitude (g)
65-69 MPH	12	84 (00:42.0)	14.29%	0.04
70-74 MPH	8	52 (00:26.0)	15.38%	0.04

This report, along with the data and diagnoses it contains, was generated by the NVH app (iOS Version: 4.0.10 (1)), created by Vibrate Software, Inc.

www.vibratesoftware.com | support@vibratesoftware.com | 1-801-784-0397

© Copyright 1994 - 2022 Vibrate Software, Inc. - All Rights Reserved