

Vibration diagnostic system for the chassis of two-axle wheeled vehicles comprises a first multiplexer connected to two accelerometers, which are used to measure the vibration acceleration parameters of the wheeled vehicle's guiding axle housing in the vertical plane, a second multiplexer connected to two other accelerometers, which are used to record the vibration acceleration parameters of the rear axle housing of the wheeled vehicle in the vertical plane, an analog-to-digital converter connected to the first and second multiplexers and a computing device, the input of which is connected to a monitor and a printing device. One accelerometer is installed on each side of the guiding and rear axles of a wheeled vehicle to record the vibration acceleration parameters of the wheeled vehicle's axle housings in the horizontal plane, wherein the accelerometers are located on the wheeled vehicle's axle housings and are connected to multiplexers.