

Vibration diagnostics system of the chassis of seven-axle wheeled vehicles consists of a first multiplexer connected to two accelerometers, which serve to record the vibration acceleration parameters of the body of the steered axle of the wheeled vehicle in the vertical plane, the second, third, fourth, fifth and sixth multiplexers connected to five pairs of accelerometers, respectively, which serve to record the vibration acceleration parameters of the bodies of the intermediate axles of the wheeled vehicle in the vertical plane, the seventh multiplexer connected to two accelerometers, which serve to record the vibration acceleration parameters of the body of the rear axle of the wheeled vehicle in the vertical plane, an analog-to-digital converter connected to seven multiplexers and a computing device, the input of which is connected to a monitor and a printing device. One accelerometer is introduced on each side of the steered, five intermediate and rear axles of the wheeled vehicle to record the vibration acceleration parameters of the axle housings of the wheeled vehicle in the horizontal plane and one accelerometer on each side of the steered, five intermediate and rear axles of the wheeled vehicle to record the vibration acceleration parameters of the axle housings of the wheeled vehicle in the frontal plane. The accelerometers are located on the axle housings of the wheeled vehicle and are connected to multiplexers.