

Vibration diagnostic system for the undercarriage of four-axle wheeled vehicles consists of a first multiplexer connected to two accelerometers, which are designed to record the vibration acceleration parameters of the wheeled vehicle's steered axle housing in the vertical plane, a second and third multiplexers, connected to two pairs of accelerometers, respectively, designed to record the vibration acceleration parameters of the housings of the wheeled vehicle's two intermediate axles in the vertical plane; a fourth multiplexer, connected to two accelerometers, which are designed to record the vibration acceleration parameters of the wheeled vehicle's rear axle housing in the vertical plane; and an analog-to-digital converter connected to the four multiplexers and a computing device, the output of which is connected to a monitor and a printer. Additionally, one accelerometer is installed on each side of the driven axle, the two intermediate axles, and the rear axle of the wheeled vehicle, designed to record the vibration acceleration parameters of the wheeled vehicle's axle housings in the horizontal plane. The accelerometers are located on the wheeled vehicle's axle housings and are connected to multiplexers.