This article is devoted to investigation of stability of linear autonomous nonconservative system with even number of degrees of freedom in the presence of potential gyroscopic, dissipative and nonconservative position forces. There is found an explicit approximation of the asymptotic stability domain boundary near the Whitney umbrella singularity and analytical estimations of critical value of gyroscopic parameter are presented. As an example the Hauger pendulum stability under following momentum action is analyzed.

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