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The question of boundary conditions correction of calculation tensely-deformed conditions (TDC) of the piston of the internal combustion engine (ICE) is considered by a method of final elements (MFE). For the decision of this task it is offered to establish size of pressure or deformations in control points in the experimental way by method tensometric statically loaded piston, or by carrying out of full-size calculation of the TDC of the piston and components cooperating with it. By results of measurements (calculation) correction of the boundary conditions set at calculation on MFE which can be specified is carried out, deciding a return task of the theory of elasticity.