

**IMPROVING THE OPERATING CHARACTERISTICS OF ENGINES  
BY THE IMPOSITION OF MANUFACTURING OPERATION OF HERMETICITY  
INSPECTION OF VACUUM-TIGHT RADIO ELECTRONIC DEVICE CASES**

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The mathematical model of the shielding gas injection from the vacuum-tight Radio electronic device (RED) case through the soldered joint of the closure head has been developed. It allows to establish binding between the operating time and pressure of the shielding gas inside the vacuum-tight RED case. The inspection method of vacuum-tight RED case hermeticity by means of determination closure head of the RED case deformation has been developed. This allows to reveal depressurized RED cases and to forecast further changing of the shielding gas pressure.

*Hermeticity control, case, mathematical model, inspection method*

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