

FF-L-2937  
AMENDMENT 1  
May 22, 2006

## FEDERAL SPECIFICATION

### COMBINATION LOCK, MECHANICAL

The General Services Administration has authorized the use of this amendment, which forms a part of FF-L-2937, dated January 31, 2005, by all federal agencies.

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Paragraph 3.6, delete in its entirety and substitute the following:

**“3.6 Thermal operation.** The lock shall operate properly up to a temperature of 155 degrees Fahrenheit. The lock is not required to operate at temperatures exceeding 155 degrees Fahrenheit. The lock bolt shall not be able to be retracted without the proper combination when exposed to extreme heat. The lock shall be tested in accordance with paragraph 4.7.2.”

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Add new paragraphs, as follows:

**3.13.1 Bolt Material.** The lock bolt shall be made of Type 304 stainless steel or equal material that is corrosion resistant, has a minimum tensile strength of 85,000 psi, and a hardness of Rockwell B85.

**3.13.2 Bolt Design.** The locking bolt shall have two threaded holes in the end of the bolt. The holes shall be #10-32 UNF with a center to center distance of  $0.563 \pm 0.005$  inch. The holes shall be tapped to a minimum depth of 0.375 inch (see figure 4).

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Paragraph 4.7.2, delete in its entirety and substitute the following:

**“4.7.2 Thermal test.** The lock shall be placed in a chamber maintained at a temperature of 155 degrees Fahrenheit for a period of three hours. At the end of that period, the lock shall be removed from the chamber and immediately opened five times using normal dialing procedures. Failure of the lock to operate shall constitute failure. The lock shall then be subjected to extreme heat and an attempt shall be made to retract the locking bolt without using the proper combination. Retraction of the lock bolt without entering the proper combination shall constitute a failure.”

Add the following Figure to the end of the document:

