



## DoD Lock Program

NAVFAC Engineering and Expeditionary Warfare Center

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<https://www.navfac.navy.mil/go/locks>

### Technical Bulletin 19-001

#### Kaba Mas X-10 Detent Spring Issue

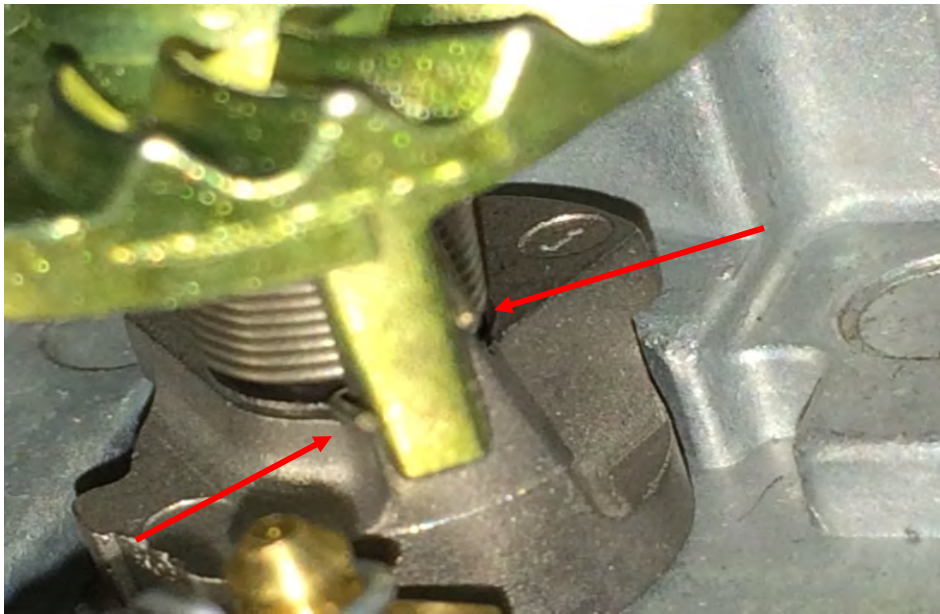
It has recently been brought to the attention of the DoD Lock Program that Kaba Mas X-10 combination locks manufactured from September, 2016 to July, 2017 may experience an issue with the detent spring. The issue occurs in a very low percentage of locks and has been resolved in locks produced after the specified dates. In this technical bulletin, the symptom, problem and possible solution are described for the end user's awareness.

**Symptom:** The Kaba Mas X-10 lock displays the "OP" symbol after dialing the correct combination and the motor can be heard turning (mostly in container configurations). However, the dial does not stop and the lock does not open. A second sound of the motor resetting the worm wheel is also heard a few seconds later and the "OP" symbol disappears.

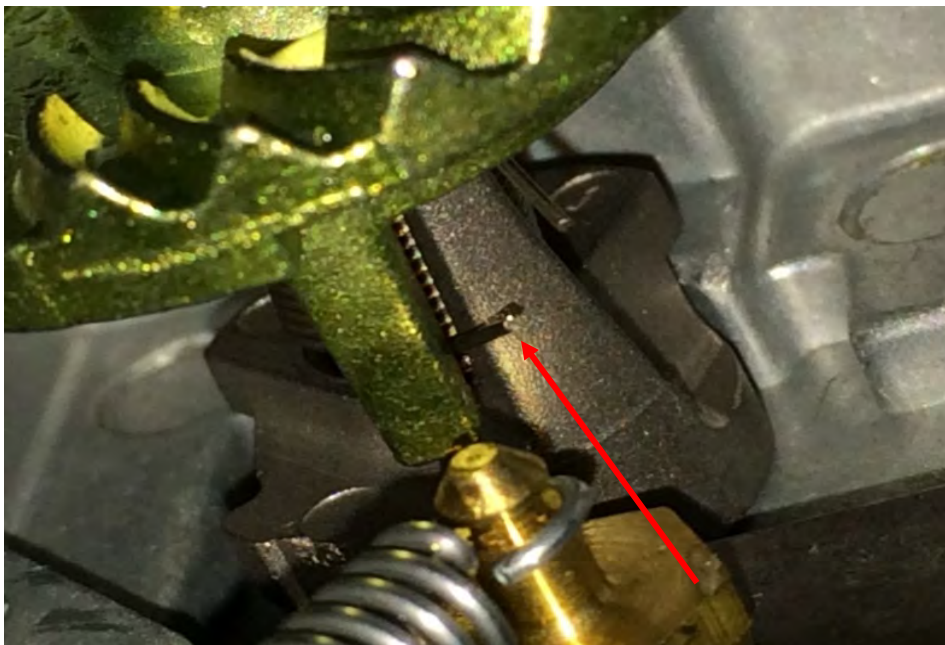
**Problem:** The detent spring leg has come off the worm wheel pin on the lower section.

**Possible Solution:** Resetting the motor may solve the problem. For motor reset instructions, contact the DoD Lock Program Technical Support Hotline at (805) 982-1212, toll-free (800) 290-7607, or DSN 551-1212; or by email at [W NAVFAC DOD Lock Program Support@navy.mil](mailto:W_NAVFAC_DOD_Lock_Program_Support@navy.mil).

Below are pictures that depict the spring in the correct and incorrect position.



This is the correct position of the detent spring with a leg on either side of the worm wheel pin and the slide block. Notice spring legs resting against opposite sides of worm wheel pin.



This is the incorrect position of the detent spring where the lower leg of the detent spring has slipped off the worm wheel pin and rests against the slide block. Notice space between the spring leg and the worm gear wheel pin.

If issues are experienced in the field or more information is required, please contact the DoD Lock Program Technical Support Hotline at (805) 982-1212, toll-free (800) 290-7607, or DSN 551-1212; or by email at [W\\_NAVFAC\\_DOD\\_Lock\\_Program\\_Support@navy.mil](mailto:W_NAVFAC_DOD_Lock_Program_Support@navy.mil). You can also visit the DoD Lock Program website at <https://www.navfac.navy.mil/go/locks>.