



# ARIES<sup>®</sup>

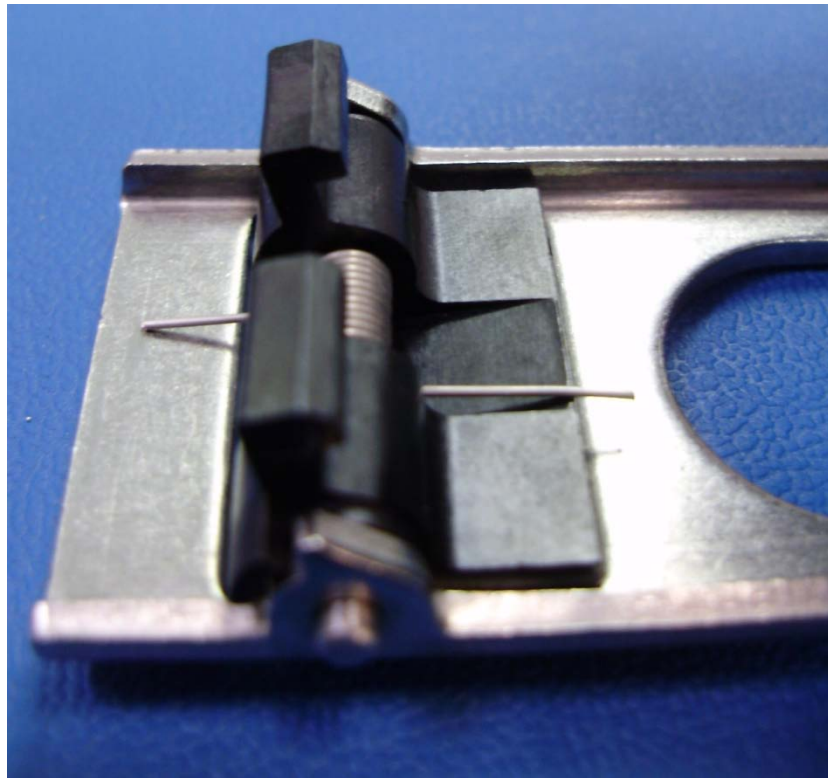
## ELECTRONICS, INC.

### LATCH SPRING MODIFICATION GUIDE 23019 & 24011 CSP SOCKETS

4/13/2009 REV1

Due to recent customer requests to reduce the sensitivity of the latch opening mechanism, a novel work around has been created. This guide will instruct the operator on how to easily adjust the latch spring without disassembly and can be done on location with only a pair of needle nose pliers. The adjustment to the latch spring is a customer preference and not a recall. It is solely at the discretion of the customer to decide if any adjustment to the latch sensitivity is required. All 23019 & 24011 (40mm) sockets produced after 4/13/2009 will have the revised spring modification included unless directed otherwise by the customer prior to approval of the sales drawing. Please contact your Aries representative with any questions.

Below is a picture of the current unmodified latch spring.  
Notice how both ends of the spring are straight.



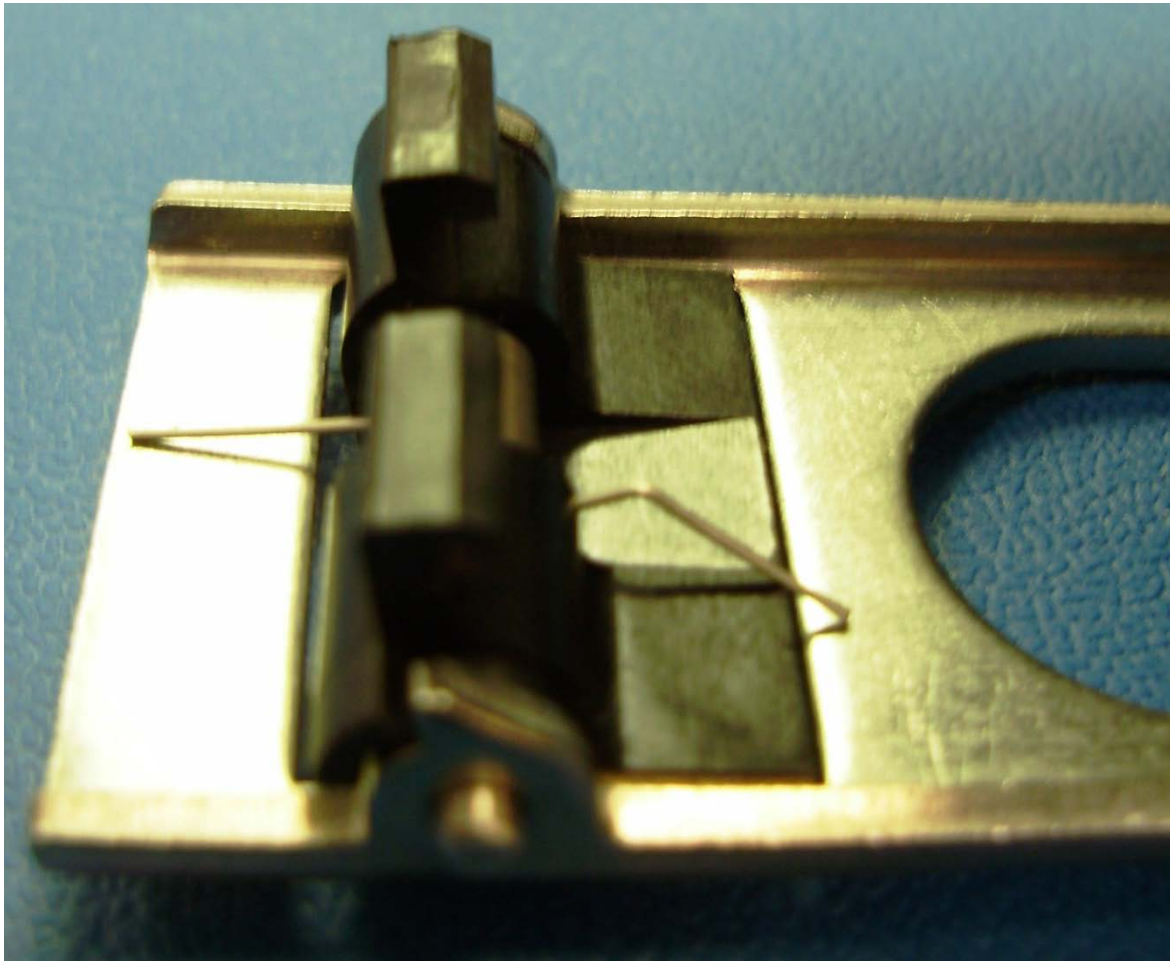
## STEP 1.

First, open the socket and position it so you can easily see and access the latch spring. You do not need to take anything apart to complete this modification. Next, bend the one end of the spring in the shape of a "V" to form a leaf spring as pictured below. To do this, grab the end of the spring with a small pair of needle nose pliers and rotate until it resembles the picture. The amount of rotation will vary depending on how much resistance you want to add to the latch spring. The more you rotate the spring end and the taller the "V" shape, the more the latch will resist opening when pressed. The ends of the spring will vary in length and do not need to contact the metal lever. Only the one end shown needs to be bent.



## STEP 2.

Next, open and close the socket with the device loaded in it and note the amount of pressure needed to actuate the latch lever to open the socket. If the sensitivity is as desired than the modification is complete. If the latch still opens too easily than repeat step 1 and increase the height of the "V" to increase the resistance of latch rotation. The latch spring will roughly resemble the picture below when completed.



**The spring end now forms a leaf spring that will contact the lid surface when closed. The height of the spring end determines the amount of deflection. The picture below shows the lid lever and latch spring just prior to being fully closed.**



**The design intent of the original latch was to give the operator an easy to use release mechanism, but this option is not always ideal for every socket application. If you find that the latch is too sensitive, the above outlined procedure will provide a limited level of adjustability. It is always recommended not to place any objects on top of the socket but we do understand that during everyday use and testing the latch can get bumped. Leaving the latch spring unchanged will not pose any problem, but if it becomes an issue this modification should be done. Please contact your rep if you have any trouble or questions with socket or the latch spring procedure.**