

Product: Cooke S4, S4/i

Subject: Cam Assembly

Header: An important and easy way to avoid problems with powerful focus motors.

Description: Information for technically qualified service personnel only.  
The position and fastening of the stop ring in front of the cam needs special attention:  
See attachment.

Attachment:

The focus cam stop ring is fastened to the front of the cam by 3 small set screws (C)

**Focus cam stop ring**

**Focus cam**



Placing this ring in the correct position is important for the end stroke of the focus ring.

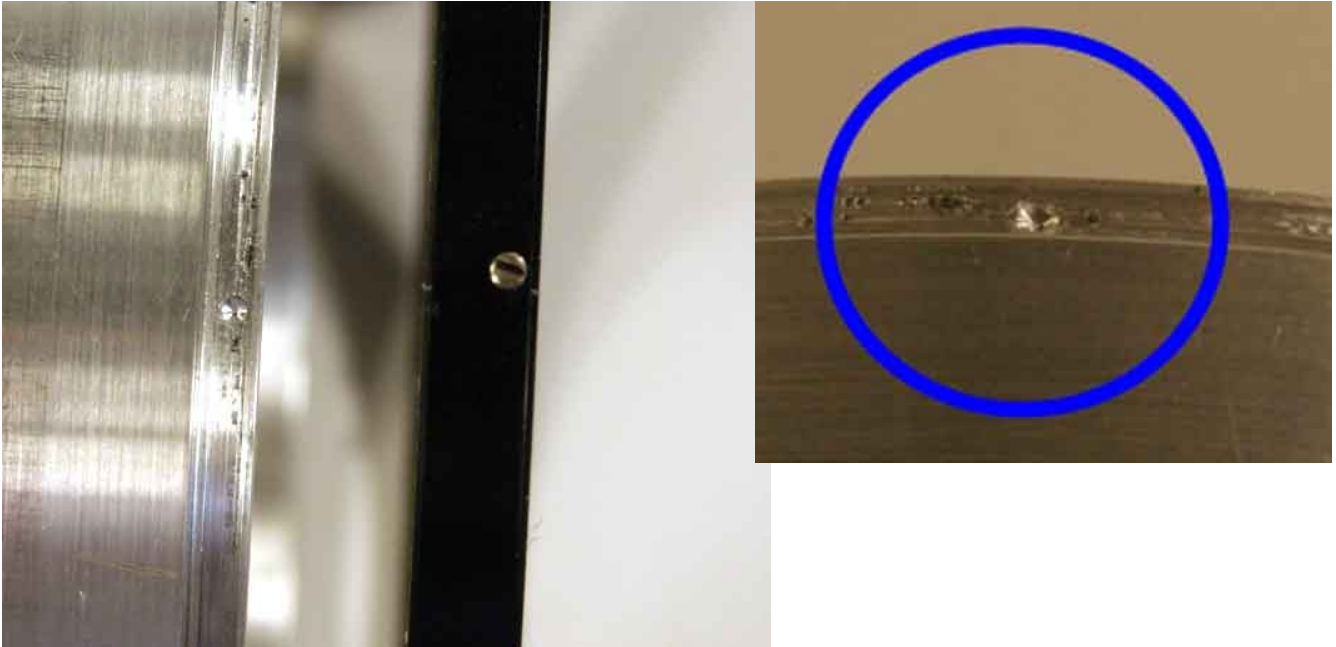
**Cam follower brass block**

Before disassembly it is recommended to mark the relative location of the stop ring on the cam:



For the reassembly it is important to find the original position of the stop ring for two main reasons,

- 1) The focus ring will stop exactly on infinity as originally intended.
- 2) At least one of the set screws will find the dimple in the cam.



This dimple is important because not only it is the original position but this screw will have a great resistance to the torque applied on the focus ring in particular by a focus motor. If the stop ring was to shift position when the lens is completely assembled, the cam follower can disengage and jam the lens. It is not easy to recover from this position as some parts may be damaged.



This is an important detail that can avoid a lot of grief if properly taken care of. At this time I recommend to add a dimple under the other two set screws if they are not there already. This is a little insurance that can be added when the lenses are serviced.

The position should be easy to see by the imprint left by the screw. However make sure you check the reference mark in case there are more than one imprints.