

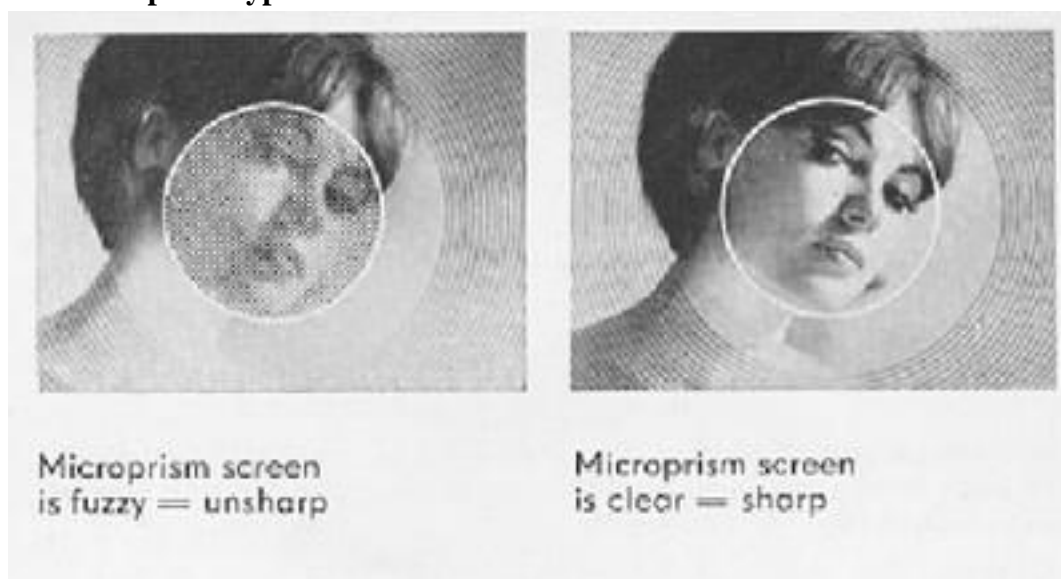
## **How to Remove the Canon Focusing Screen for Cleaning or Install Haoda's Split Image Focusing Screen**

July 12, 2005 by Haoda Fu

- **Background:**

There is an instruction written by Michael Tan for changing the focusing screen on Canon 300D (Digital Rebel). Same instructions work just fine for the Canon 20D and 350D (Digital Rebel XT). My friend Bill Smith revised the previous version by adding more detailed explanation and more pictures from our yahoo group. Basically, this version you are looking at is based on Michael and Bill's version. This PDF file serves two purposes cleaning the focusing screen and replaces the Haoda's Split Image Focusing Screen.

- **Focusing Screen in two types**  
**Microprism type**



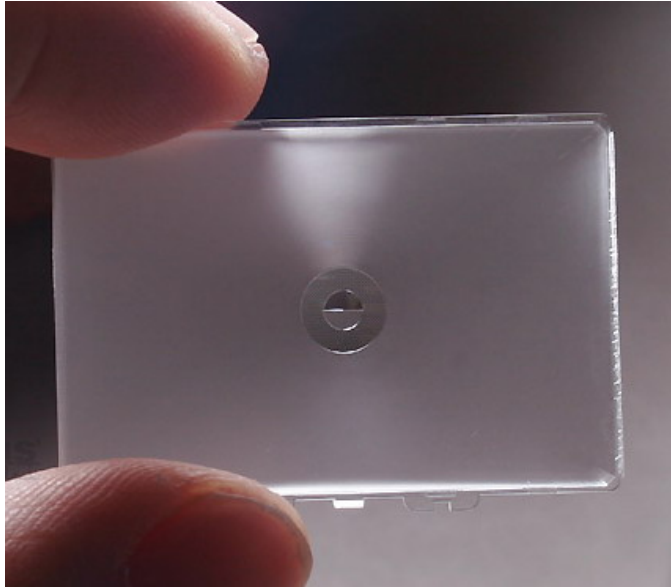
- **Split Image type**



**An actual Split Image Focusing Screen for Canon DSLR on Haoda's Yahoo Group**

**Split Image Focusing Screen for Digital SLR**  
<http://groups.yahoo.com/group/screen4DSLR/>

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This focusing screen is a split image microprism and high bright 3 in 1 focusing screen. It is a laser matte screen with a split image circle and a microprism collar.

**In addition to the Screen itself, there are two other parts in the sandwich.**

- 1) Copper shim on bottom,**
- 2) Screen and**
- 3) Locking frame (note the tab at bottom)**



● **Why we need a split image focusing screen on DSLR?**

On the 300D, 350D, 10D and 20D, it is very difficult to achieve a correct manual focus with the original screen provided by Canon because it lacks any sort of focus aid such as the split prism common to most film SLR's. This isn't a big deal for most people, since they use auto focus 95% of the time anyway. But for some of us old school types, art photographers, astrophotography, macro photography and people with a large collection of high quality manual focus lenses, auto focus just won't do.

## **Split Image Focusing Screen for Digital SLR** <http://groups.yahoo.com/group/screen4DSLR/>

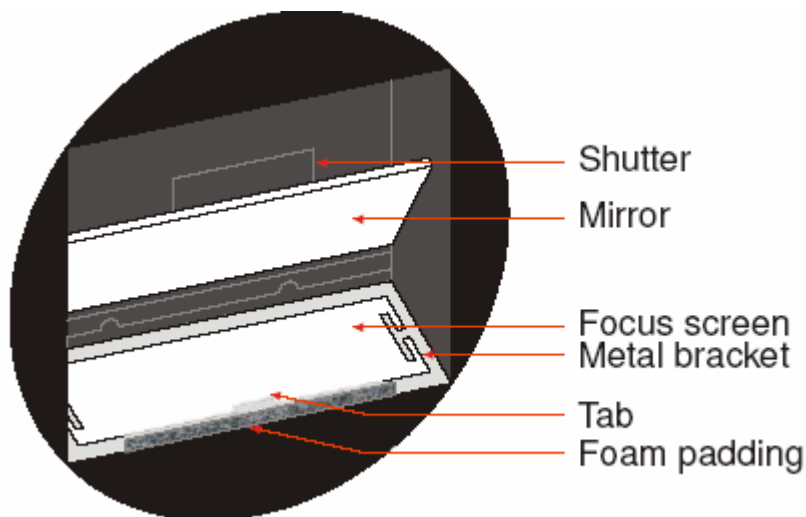
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Since those sorts of people do a lot of manual focusing, the lack of a split prism focusing screen is a very big deal.

Another reason to install the split image focusing screen is the screen can help you to judge the auto focus. There is an arising issue of out of focus for Canon lens or camera. Most of them are due to the AF's variation. Installing the split image focusing screen will not influence camera's AF. When the auto focus gets confirmed, you can easily judge whether it is accurate. If not, you can auto focus again. Otherwise, you will get a blur picture even if the AF confirmed.

### **How to Uninstall the Focusing Screen on Your Canon DSLR**

1. Ensure that the camera is relatively dust free and that your work environment is dust free.
2. Remove the lens from the camera.
3. Place the camera on a towel upside down or on something so at least the camera is stable and relatively flat.
4. Looking within the camera, note the small metal tab behind the foam where the mirror hits when it lifts up as shown below.



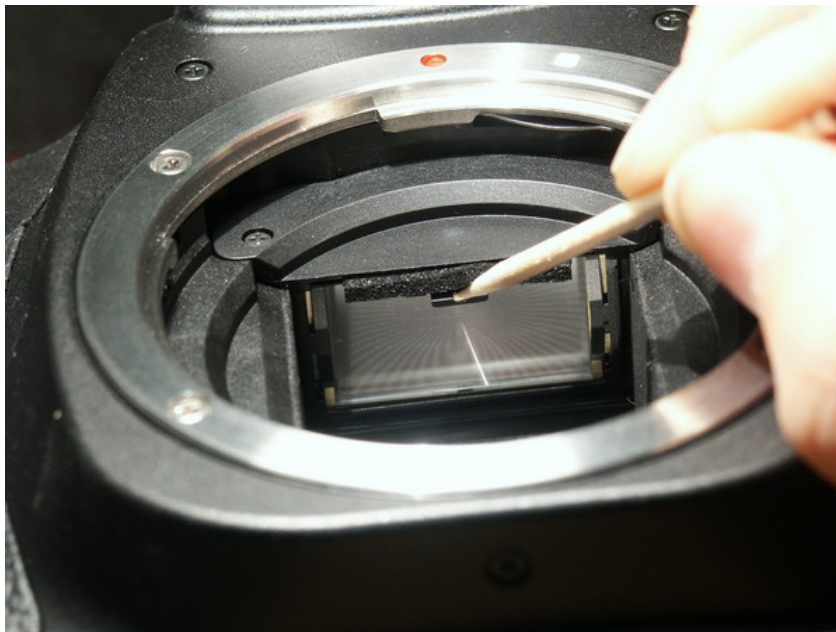
Real Picture on 300D

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Real Picture on 20D



See the tab that holds the screen in.

5. Using a small tweezers, grip the little metal tab with the tweezers and push the tab gently towards the back of the camera (1) then lift up (2) as shown below. The metal bracket should pop up. This does not take a lot of force to accomplish. When lifting the metal bracket, ensure that it is firmly held and pulled away from the mirror to prevent scratches on the mirror.

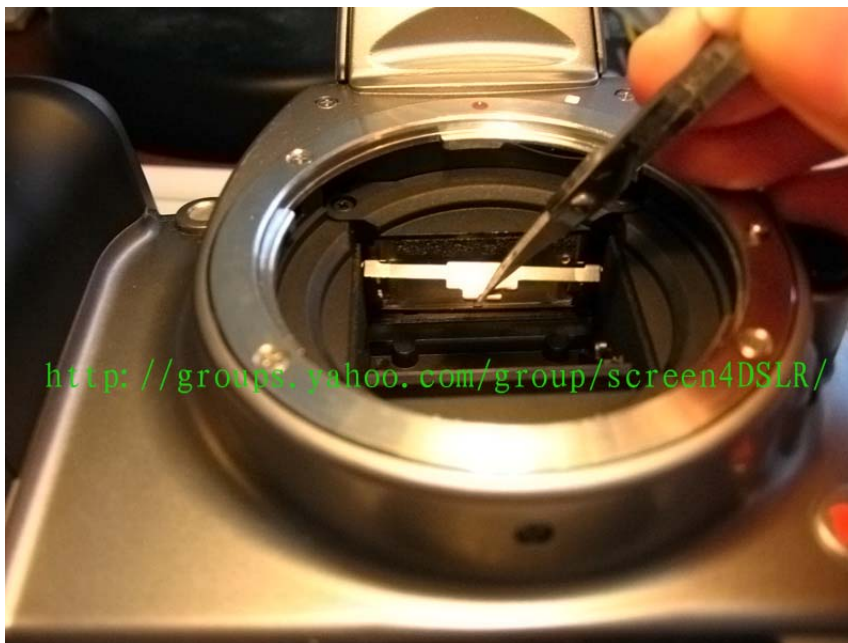


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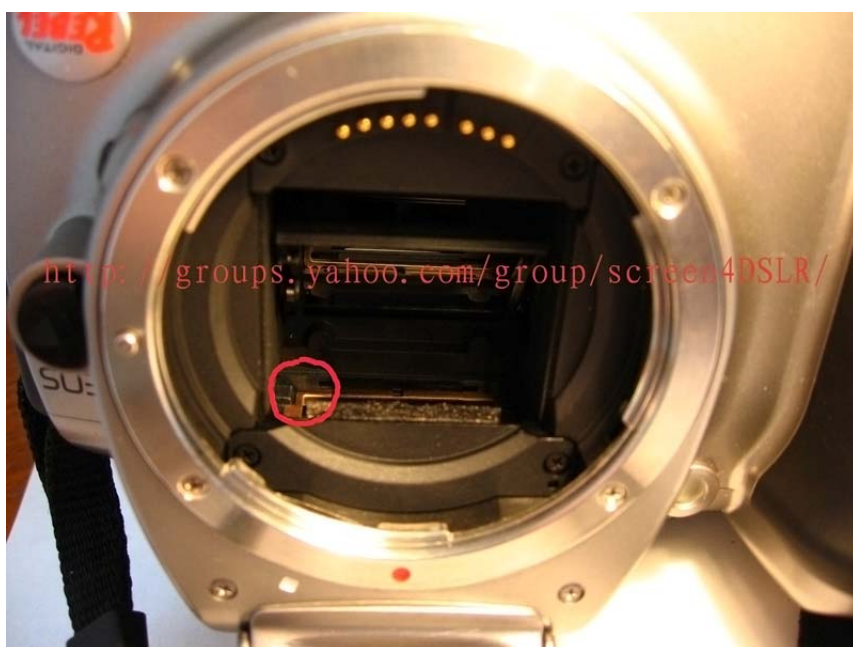
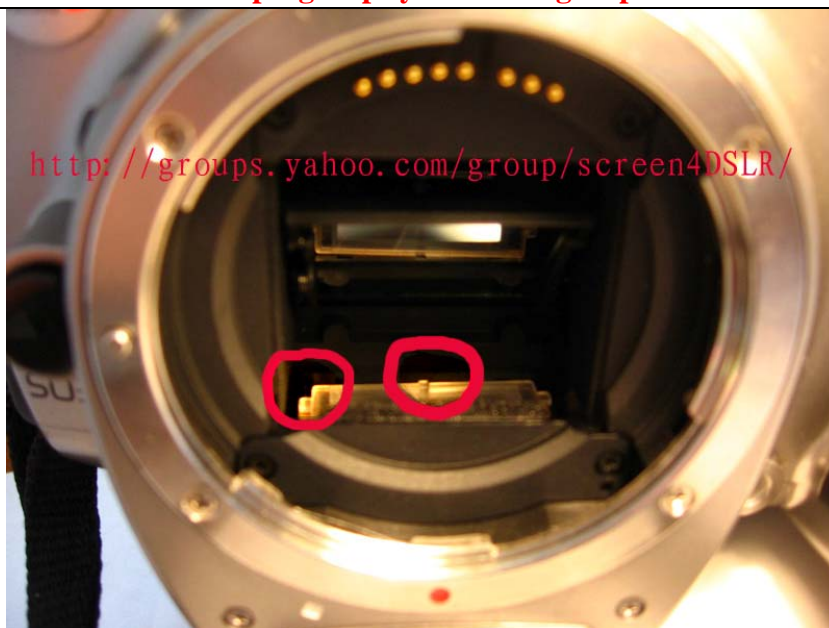


6. Using the tweezers again, use it to lift out the focusing screen by grabbing onto either tab on the side of the focusing screen. Lift it out slowly in the same manner how you did with the metal bracket (albeit lifting it an angle will be slight more difficult as the small tab is being held by the tweezers). Note how the focusing screen is pulled out as you'll want to ensure you put it back in the same way (and not upside down or reversed).



7. You'll notice a metal shim on the bottom. You should have the parts as shown below. Note the metal shim is also removed. Note that when you place the focusing screen on the table, the back should be slightly lifted up due to the protruding extensions on the bottom.

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You will get these for 300D and 20D. There are two copper shims for 350D.



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8. Blow off any dust on both sides of the screen by using an air blower,. Handle the focusing screen with one finger on each side gripping the sides only to prevent oil from getting on the screen itself.
9. Insert the focusing screen back into the camera with the tweezers first angling it into place with the tab on the back end of the screen inserted into the slot then drop into place. Ensure that the focusing screen is fitted correctly and not at an angle.
10. Install the metal bracket in the same manner, at an angle where the two metal tabs on the back fits into the appropriate slots then drop. To firmly put the metal bracket in place, push the tab towards the back using the tweezers then down. The tab should “click” into place. Ensure that the metal bracket is aligned correctly
11. Place the lens back on the camera and turn on the camera. Check that all focusing points are lit correctly by selecting the 7-point focus. If any of the red dots are misaligned, most likely the focusing screen has been placed in reverse. If you see a portion of the bottom screen blocked this indicates that the metal shim has shifted and needs to be aligned against the back of the camera.

**NOTE: When you install Haoda's Split Image Focusing Screen for Canon DSLR, you do not need the copper shim. Suggest you save both the factory screen and the copper shim together in a plastic case like the one used to store Compact Flash cards (it's a perfect fit).**

**If you would like to buy Haoda's Split Image Focusing Screen for Canon Digital SLR or for more technique support, please visit my yahoo group at**

**<http://groups.yahoo.com/group/screen4DSLR/>**