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[P41 Ir Focus Fix, Will work ona p32 also](#)

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 [treetop](#)

 Today, 12:02 AM

Post #1



Advanced Member



Group: [Development Team](#)
Member

Posts: 3,631

Joined: 24-July 03

Member No.: 74

I had a post on this awhile back but when I was cleaning up disk space when the site was having issues I deleted it. Also lots of new guys around who it may help.

So here goes

I did IR mods on 2 P41s today and I checked them tonight in the cam after dark. Its the only way I feel to really know what it will do

Anyhow these cameras were set for infinity and iso of 400 using a slave. I am pretty fussy and one was pretty good to start but the other was not.

Okay now this gets a little hard to understand but all the pictures were out of focus both closeups and far away Usually this means the ccd is to close to the glass So the CCD needed to be shimmed away from the lens assembly On both a p41 and P32 the ccd is mounted to a metal plate and the plate is screwed to the assembly. I just tape a small piece of scotch tape to the metal plate to act as a shim. I do this one layer at a time and load pictures and check what progress is being made This one took 3 shims of scotch tape on each side and look at the difference at the end. I am standing about 40 ft from the cam

This post has been edited by [treetop](#): Today, 12:03 AM

Attached thumbnail(s)





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 **bulltalk.65**



Advanced Member



Group: Members
Posts: 59
Joined: 30-August 07
From: oroville, ca
Member No.: 5,014

 Today, 12:36 AM

Post #2

That is a heck of a difference there between the 2 pics. I'm really starting to get the itch for building an IR cam seeing all the stuff you do with them Dave. the scotch tape you stick in there, is it between the ccd and the circuit board ? or the ccd and the metal bracket the ccd sits in ?

1 more question, I see the pics are at 11:30 at night (work night at that) , Do you ever get any sleep ?
LoL 😊

Thanks for all the work you do for everyone here.

George


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 **novascotiahunter**

 Today, 05:37 AM

Post #3



Advanced Member



Group: Advanced Members
Posts: 340
Joined: 4-October 05
From: Lawrencetown, Nova Scotia
Member No.: 2,092

Thanks Dave for this, I have a P41 IR that takes great clear pics, but my P32 could use some tweaking, I remember the thread a while back but wasn't sure how to do it now I sort of know but pictures would make it less blurry for me....no pun intended... 😊



Cheers

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 **ironwood**



Advanced Member



Group: Members
Posts: 165
Joined: 27-November 04
Member No.: 1,215

📅 Today, 11:51 AM

Post #4

I finished my first five IR builds with P32's. Two of these where mine and the others where my building partners Pete and Bigtypical. All of them have focus issues. I believe I can say that they will all take a mix of focused and unfocused pictures. Is that still a matter of shimming? When we finished these we where right into our bow opener and they where no longer a priority. Now I'd like to get them right. I'll post some photo's when I get to my home PC.

Thanks for the great info.

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 **gypsy**



📅 Today, 01:23 PM

Post #5

Thanks Dave, I have one that is out.
I will give this a try.
Can't believe how you could sneak up on the deer too LOL.

gyp

Advanced Member



Group: Advanced Members

Posts: 606

Joined: 22-September 04

Member No.: 943

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Eastky Bowhunter

Today, 01:27 PM

Post #6



Member



Group: Members

Posts: 34

Joined: 8-April 06

Member No.: 2,776

QUOTE(treetop @ Dec 5 2007, 12:02 AM) →

Quote ”

Okay now this gets a little hard to understand but all the pictures were out of focus both closeups and far away Usually this means the ccd is to close to the glass So the CCD needed to be shimmed away from the lens assembly On both a p41 and P32 the ccd is mounted to a metal plate and the plate is screwed to the assembly. I just tape a small piece of scotch tape to the metal plate to act as a shim. I do this one layer at a time and load pictures and check what progress is being made This one took 3 shims of scotch tape on each side and look at the difference at the end.

I am easily confused so bare with me. Is this the place you are referring to?

This post has been edited by **Eastky Bowhunter**: Today, 02:28 PM

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1500ccz71

Today, 01:36 PM

Post #7



Advanced Member



Group: Advanced Members

Posts: 302

Joined: 25-August 04

From: Upstate NY

Member No.: 779

"Okay now this gets a little hard to understand but all the pictures were out of focus both closeups and far away Usually this means the ccd is too close to the glass. So, the CCD needed to be shimmed away from the lens assembly. On both a p41 and P32 the ccd is mounted to a metal plate and the plate is screwed to the assembly. **I just tape a small piece of scotch tape to the metal plate to act as a shim.** I do this one layer at a time and load pictures and check what progress is being made."

I would love to see a picture of this to get a better understanding. I have a P32 that I did the IR mod to but never deployed it because I wasn't happy with the fuzzy pictures it took. Please post a picture. I'll bet that would clear up a lot of confusion over this. Thanks. 😊

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Advanced Member



Group: Development Team
 Member
 Posts: 3,631
 Joined: 24-July 03
 Member No.: 74

Okay I guess I started this so here goes First the way I was shown how to tell somewhat where the focus is at is to take a closeup and a far picture. Again The cam should be steady and pictures should be taken at night using IR material over the flash .

In most cases I have found is that if both close and far pictures are out of focus then the CCD is to close to the replacement glass and shimmming should work in getting the extra distance we need.

If the closeups are in focus and the far shots not in focus the CCD is most likely already to far from the glass and getting it closer is needed. This seems to be a more difficult fix. You have to shim the glass closer to the ccd and thats tough but I have done it though.

Okay here are a couple test pics last night as you can see they are both out of focus

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 **treetop**

Today, 02:15 PM

Post #9



Advanced Member



Group: Development Team
Member
Posts: 3,631
Joined: 24-July 03
Member No.: 74

Then I shimmed it with one layer of tape

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Advanced Member



Group: Development Team
Member
Posts: 3,631
Joined: 24-July 03
Member No.: 74

Now a second layer

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and now with the 3rd piece of tape and what I feel was very good focus

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Advanced Member



Group: Development Team

Member

Posts: 3,631

Joined: 24-July 03

Member No.: 74



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Today, 02:21 PM

Post #12



Advanced Member



Group: Development Team
Member
Posts: 3,631
Joined: 24-July 03
Member No.: 74

And here is where the shims would go I just stick the tape right onto the metal plate

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ironwood

Today, 02:34 PM

Post #13



Advanced Member



Group: Members
Posts: 165
Joined: 27-November 04
Member No.: 1,215





These two photos are just one frame apart. One is clear the other is not. I don't understand way this would happen. I expect this is something different than the shimmering fix.

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 **treetop**



Advanced Member



Group: Development Team
Member
Posts: 3,631
Joined: 24-July 03
Member No.: 74

Today, 02:53 PM

Post #14

Can you email me those pictures I want to check the advance settings to see if the iso or shutter speed changed on them ? Maybe you had focus or iso on auto? I always focus mine to iso of 400 and focus to infinity and dont run them in autofocus at all. the auto focus can help a out of focus cam especially in the daylight but it doesnt help much at night to see this just look at most s600 ir pics It cant be set to fixed focus and most day pics are decent but the night when the autofocus cant help are pretty poor. Ir is pretty difficult in that I think its almost like taking a picture in complete darkness a slave helps also My email is info@bfoutdoors.com

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