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## Fuji GX680 Sync with Digital Back

👤 MartinN · 🕒 Jan 28, 2022



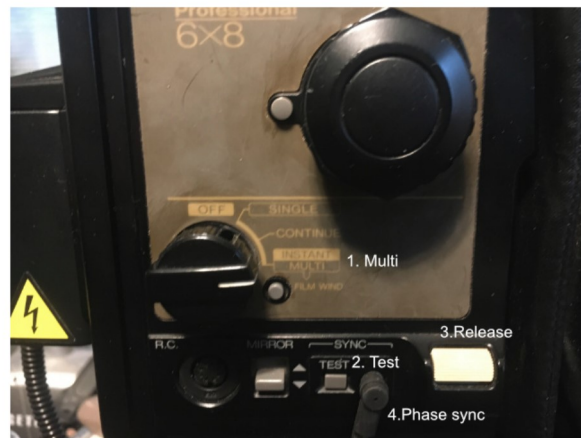
**MartinN**

Well-known member

Jan 28, 2022

🔗 #1

I have tested Phase One P25 with Fuji GX680 and used the following 'hack':



Procedures

Connect sync lead

1. Use Multi on GX680
2. Press briefly Test button and very soon thereafter
3. Expose with Shutter release

The procedure is to press test button briefly immediately before pressing shutter release.

The P25 is on short latency.

What I can see, I get sync on each shutter speed 1/400 - 8s and B.  
I can't see where the real need is for the Kapture Group OneShot box.  
Of course you have to be pretty quick pressing and I get the dreaded two shot error whenever I forget to press the test button in-time.

What exactly was the purpose of the Kapture Group Box, except for convenience ?

I was syncing flash from P25.

Last edited: Jan 28, 2022



**buildbot**

Well-known member

Jan 28, 2022

 #2

I believe the problem is that the GX680 will only ever send a 1/15th sync due to the circuitry involved in isolating the sync socket - check out the repair manual if you want to see it, it's one of the only ones out there with a full electronics diagram of the system.

The kapture group box allowed you to set the correct shutter on the box and then when it saw the start of the signal, I imagine it would start an internal timer, pass the signal to fire to the back, then wait for the correct amount of time before telling the back to end the exposure.

The true sync from the lens itself it's available in a few places - one is one of the contacts on top of the body for the metering finder. The other is at the base of the front standard, the ribbon connector for the lens contacts to the body is attached via a simple connector that's easy to break out. Isolating it correctly to protect the back is probably important though and I haven't looked into it yet.

MartinN



**MartinN**

Well-known member

Jan 28, 2022

 #3

Hmm, yes, maybe, but I got flash and db sync on each and every shutter speed using my method.

The flash sync was from the port on P25.



**buildbot**

Well-known member

Jan 28, 2022

#4

Was your GX680 modified? I know there's at least one eBay seller who does that.  
Is the DB recording the right speed for each exposure too? That would be pretty neat.



**MartinN**

Well-known member

Jan 28, 2022

#5

I will test outside in existing light, not flash, some time, but not tomorrow because we have a serious blizzard. My other testing has been with the 50mm lens and shifted panos. The need for LCC is serious, but maybe 9up 3 rows was too much.



**MartinN**

Well-known member

Jan 28, 2022

#6

I don't believe my GX is modified, but of course my results are a bit too good to be true. BTW I got a really beat up Kapture Group One Shot Box and a H20 with plate, and I fabricated a 2,5mm to 3,5mm to PC cable for using the standard Phase One sync cable.



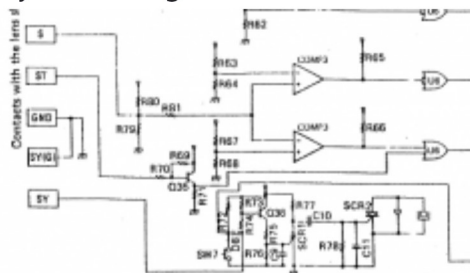
**buildbot**

Well-known member

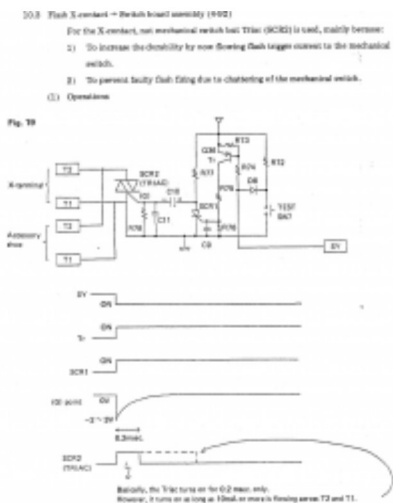
Jan 28, 2022

#7

Very interesting! I think the test button is SW7 in this diagram:



Which would close the sync connection waking up the back, but in theory all that extra circuitry is what makes the sync signal stretch to 1/15th always. I found the specific page for the circuit in the manual too (wow these are detailed, I wish Phase/literally anyone still did this!)



These are all from <https://learncamerarepair.com/downloads/pdf/Fuji-gx680-Repair-Manual.pdf>



**rdeloe**

Well-known member

I'm sure someone else here knows more though and will help us figure out the mystery haha. #8

I have no useful advice on your problem Martin. I'm just dropping in to say I'm glad to see you've found a way to keep the system going. I've recently adapted a few Fujinon GX lenses for use on my outfit and I'm very impressed with the quality of those lenses. I'm less excited about the size and weight of the lenses (so big, so heavy!), but the image circle they provide makes it worthwhile.

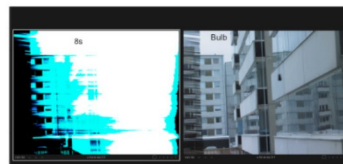
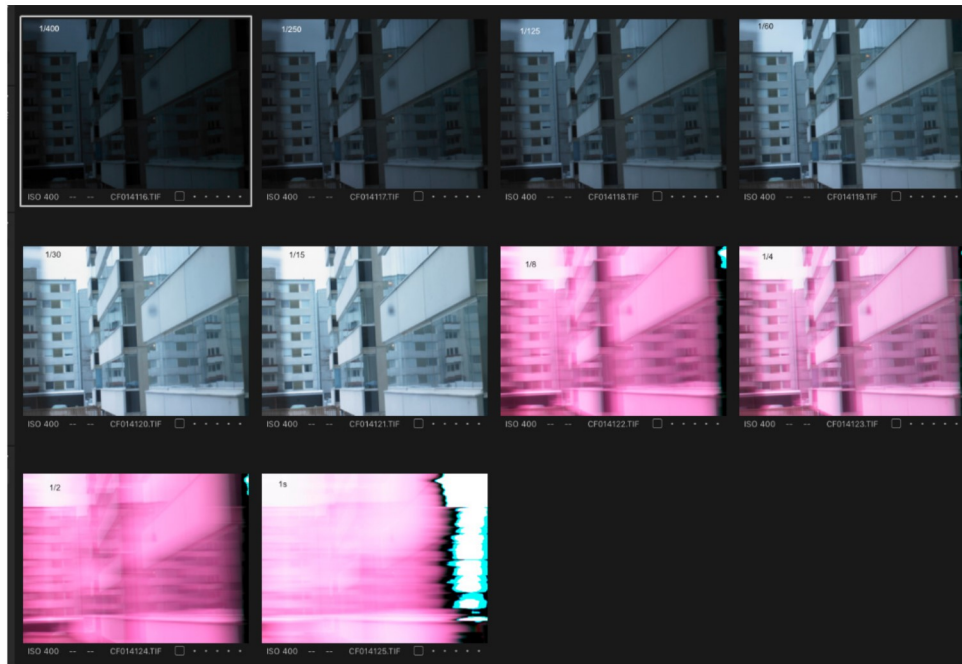


**MartinN**

Well-known member

Jan 29, 2022 #9

Yes, I got to do some daylight testing. Please excuse me for not having all exposure calibrated examples, but we simply don't have enough light today.



The first samples show the approach with test button. Everything is fine and well 1/400-1/15 and thereafter no proper sync (ie 1/8-8s).

The second samples show the approach using an very early KaptureGroup OneShotBox for H20. There every shutter speed is good 1/400-4s.

However, the third samples show 8s and Bulb. I could not get 8s to sync properly, however the bulb is ok.



**buildbot**

Well-known member

Jan 29, 2022

#10

The other interesting reflection I made was that yesterday I could get

**MartinN said:** ↗

Everything is fine and well 1/400-1/15 and thereafter no proper sync (ie 1/8-8s).

flash existing light on shutter speeds 1/8 and longer.  
Very interesting and good to know! I would assume it's unmodified then,  
and your trick with the test button can be used for longer exposures if  
needed.

I think GX680s are a really interesting camera for some diy camera  
projects...



**MartinN**

Well-known member

Jan 30, 2022

#11

**buildbot said:** ↗

Very interesting and good to know! I would assume it's unmodified then, and  
your trick with the test button can be used for longer exposures if needed.

Unfortunately not. The test button approach was used on all exposure  
times in the first experiment, and only times shorter than 1/8 were  
usable. But in a pinch that gives options 1/400 to 1/15.

buildbot

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