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By **Claude Tauleigne**
Trainer Nikon Passion



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Interpretation of signals boîtier-objectif, or My 35-70 is down

Interpretation of signals boîtier-objectif, or My 35-70 is down, by Gazalou

[NDLA: everything that follows may be false.]

Voilà! After many years of loyal service on board my F801, my 35-70 I was dropped, cowardly. The witness measurement matrix flashing on the case, no attempt to autofocus, no display of openness ... Nothing, I tell you.

My dealer told me that "my good sir, it is the CPU. Ca did not repair it, it is better to try to find a second-hand zoom.

Too easy! And then it 35-70 was the first objective of my first Nikon. So nostalgia ...

The decision is taken: it will be necessary to repair and play the soldering iron to replace the CPU.

Come on, here we go.

First, find the role of each of the contacts that form the interface boîtier-objectif. After some research on the Net, a doc maintenance F4 gives us this:

Order of Pins



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Announcements





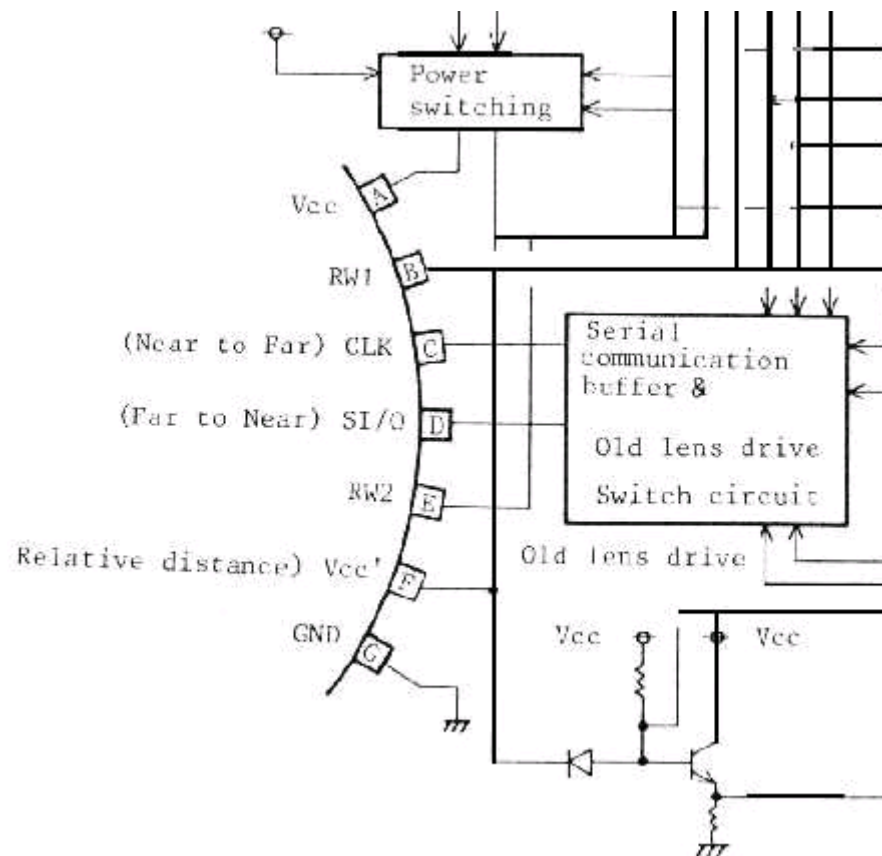
Order

By Laurence Huriaux



Order

All Nikon



Bingo! A quick glance at the goal only to find that RW2 and Vcc 'do not exist in current AF lenses. The F4 uses when it is equipped with autofocus lenses of F3. Belle lesson compatibility! It is really great that F4.

We therefore remains 5 signals which can be, by their names, deduct roughly functions.

VDC: The supply voltage

GND: zero food

(If you want to turn your D2X in flashlight, it is between these two signals the need for the bulb.)

SI / O and CLK: Respectively data signals and clock synchronous serial link

RW1: The serial link is probably bidirectional, RW1 is the signal that indicates that the housing or the goal should cause

Bon is very nice everything, but what do we do now?

> To remain silent and listen to (but not, it's not you that I say that my darling).

Ben yes. What can tell between a case and a goal? And in what language?

Call us in achieving a extension that will keep the signals while allowing to listen and see what's happening.

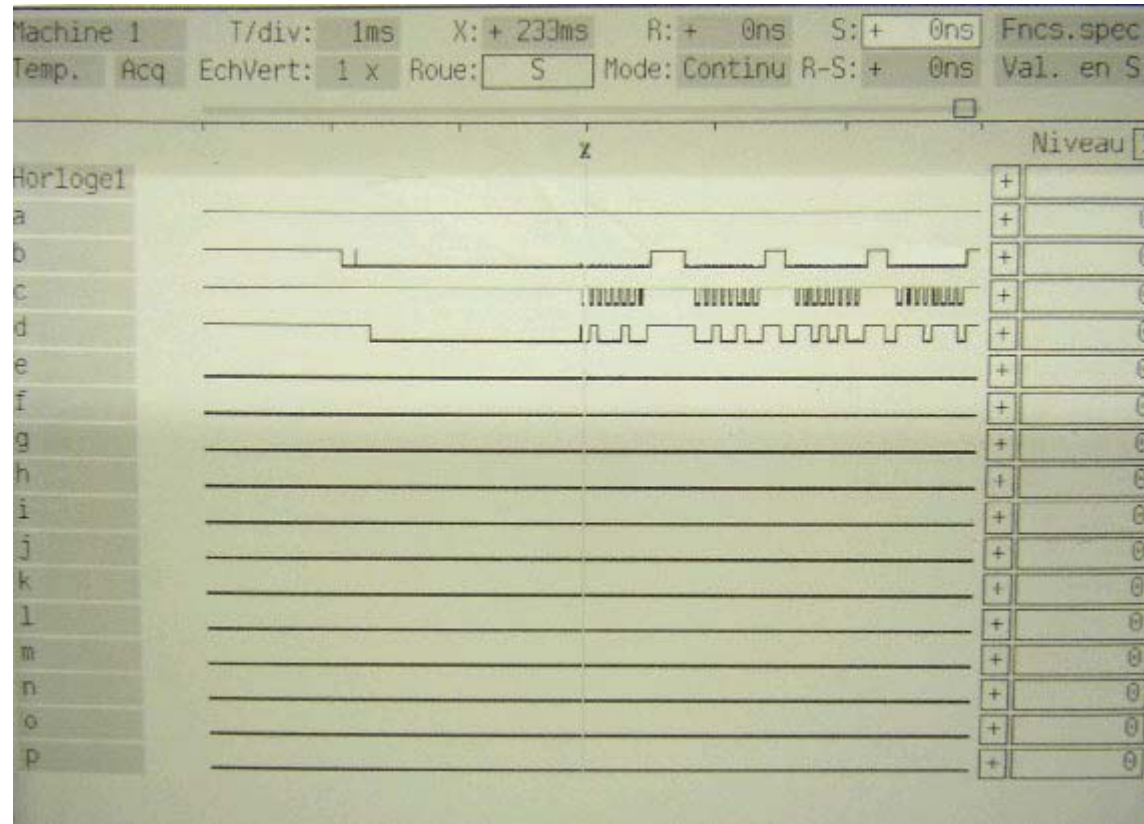


To my left, the F801 voluntary and courageous on which installed the bayonet equipped contacts AF an objective HS, which has been welded our 5 sons.

To my right, a N4004 HS that has been soldered wires that mènent contacts AF. The N 4004 will be the goal for the prolific verve.

In my center, a small plaque will give us the test on which connect a logic analyzer or CPU finely programmed.

Go ... Now it is silent and listen with the analyzer to see if it works.



Ca cause!

The "a" means the signal Vdc

The "b": the signal RW1 (I feel he will make us caguer this one)

The "c": the signal CLK

The "d": IF signal / O

It is not going to decode all bytes by hand, we will replace the analyzer by a microcontroller which will record it all for us and we will send it on the serial link from the PC. After gleaned some optical uncommon reaction, we come in the following table. Ben yes, sometimes they break too.

Zoom 33-45/ 35-70mm					Q 8 24mm	2.8 180mm		f1.8 50mm	f1.8 85 mm		14 300mm	Commentaires
Q 3 35mm	14 60mm	14.5 70mm	Q 8 50mm									
34	34	34	34	34	34	34		34	34		34	Envoyé par le boitier
37	30	26	31		32	21		37	20		6	
42	49	52	47		36	36		20	20		48	ouverture courante ?
69	118	77	68		115	83		80	76		73	
1	255	255	0		0	255		0	0		255	
196	223	207	229		121	206		96	219		208	
252	251	251	251		248	247		248	250		248	
23	27	29	27		14	28		17	21		40	
26	4	134	8		16	5		12	10		4	
0	0	0	0		3	0		6	5		0	
0	0	0	0		0	0		0	0		0	
53	53	53	53		37	39		26	21		50	
32	32	32	32		20	25		20	43		43	
32	32	32	32		0	0		0	0		0	
8	5	7	1		16	16		32	112		16	
0	0	0	0		0	0		0	0		0	
0	0	0	0		0	0		0	0		0	
68	83	92	81		55	124		80	98		142	focale courante ?
42	49	52	47		36	36		20	20		48	ouverture courante ?
29	29	29	29		9	11		15	21		16	
66	66	66	66		72	72		88	76		72	
68	68	68	68		55	124		80	98		142	focale mini ?
92	92	92	92		55	124		80	98		142	focale maxi ?
42	42	42	42		36	36		20	20		48	ouverture mini
52	52	52	52		36	36		20	20		48	ouverture maxi
18	18	18	18		4	5		5	12		8	
42	49	52	47		36	36		20	20		48	ouverture courante ?

This will be the subject of an upcoming appointment ...

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