



Steve Vigneau <c0nsumer@nuxx.net>

Smoothie HP Cable Routing Help

10 messages

Steve Vigneau <steve@nuxx.net>

Wed, Sep 14, 2022 at 2:37 PM

To: Interloc Design Group - Support <somainfo@somafab.com>

Hey there! I bought a Smoothie HP frame that I'm building up with a 105 Hydraulic group. and I'm wondering if you can offer me some suggestions for cable routing. If you can provide any detailed photos of the routing on the underside of the demo bike, that might help too.

The issue I'm running into is that when I run the cable from the left side stop to the bottom bracket cable guide, it sits in the middle of the lower brake hose braze-ons where the hose needs to go. If I cross the cables (left side stop for rear derailleur) then the cable sits on the middle brake hose guide. I'm not seeing a way to run the cables without having them rub on the hose or stops, either of which will cause problems.

I can send some photos if you'd like. I'm not seeing any other options myself, so do you all have any suggestions how I might be able to route the cables without any interference?

Thanks!

Steve

Steve Vigneau
Royal Oak, MI
steve@nuxx.net
586-524-1675

Steve Vigneau <steve@nuxx.net>

Wed, Sep 14, 2022 at 2:57 PM

To: Interloc Design Group - Support <somainfo@somafab.com>

Here's photos, for reference.

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2 attachments

PXL_20220914_185407126.jpg
2218K



PXL_20220914_185348869.jpg
2402K

Interloc Design Group - Support <somainfo@somafab.com>
To: Steve Vigneau <steve@nuxx.net>
Cc: Stanley Pun <stanpun@merrysales.com>

Wed, Sep 14, 2022 at 3:06 PM

Stan can you help Steve?

On Sep 14, 2022, at 11:57 AM, Steve Vigneau <steve@nuxx.net> wrote:

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Steve Vigneau <steve@nuxx.net>
To: Interloc Design Group - Support <somainfo@somafab.com>
Cc: Stanley Pun <stanpun@merrysales.com>

Wed, Sep 14, 2022 at 3:11 PM

Thanks! Here's one more showing a cable mocked up from the left (NDS) upper stop to the front derailleur portion of the guide. Cable sits right in the brake mount. Almost seems like the mount is in the wrong location?

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PXL_20220914_190611821.jpg
2017K

Stanley Pun <stanpun@merrysales.com>

Wed, Sep 14, 2022 at 3:56 PM

To: Steve Vigneau <steve@nuxx.net>, Interloc Design Group - Support <somainfo@somafab.com>

Hi Steve:

We understand your concern.

On our demo with this routing, the cable did contact the zip-tie holding the brake cable housing.

It did not result in any additional drag nor begin to mar the zip tie during the entire year of testing.

You'll probably need to change your cable housing by the time the cable cuts through the zip tie, if it does.

As you know the BB cable guide is a plastic and inside liner of cable housing is also a type of plastic.

Let us know if you have any more questions.

Best regards,

Stan Pun
Merry Sales Co.
650-871-8870

merrysales.com
somafab.com
interlocracing.com
yokozunausa.com
newalbioncycles.com

From: Steve Vigneau <steve@nuxx.net>

Sent: Wednesday, September 14, 2022 12:11 PM

To: Interloc Design Group - Support

Cc: Stanley Pun

Subject: Re: Smoothie HP Cable Routing Help

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Steve Vigneau <steve@nuxx.net>

Wed, Sep 14, 2022 at 4:45 PM

To: Stanley Pun <stanpun@merrysales.com>

Cc: Interloc Design Group - Support <somainfo@somafab.com>

Stan:

I understand that nylon is quite durable, but this is being fitted with hydraulic brakes. Any rub-through on the hose will result in a complete rear brake failure. Or even if it begins, it will be way more complicated to fix than just a housing swap.

To be honest, at this point I'm feeling quite frustrated and trying to figure out what to do. I expected something well designed from you all, not a frame needing hacks due to poor routing. Since you all knew about this a year ago, I would have expected you might have made a fix prior to production instead of asking customers to depend on cable ties not rubbing through. I'd really rather not have to bodge in some sort of cable extra cable guide and just hope things don't get cut through mid-ride.

Do you have a better option for me than just living with it?

Steve

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Stanley Pun <stanpun@merrysales.com>

Wed, Sep 14, 2022 at 11:08 PM

To: Steve Vigneau <steve@nuxx.net>

Cc: Interloc Design Group - Support <somainfo@somafab.com>

Hi Steve:

Below is how the prototype looked like. The mechanic who built this proto was also an advisor to the design and he has been building high end road bikes since the 80's. We built protos with different cable routing. He chose this one.



I recommend to start building and see what's what.

I think the cable will be contacting the zip tie or clip not the hydraulic line at all, but even if it contacts the hydraulic line, it is unlikely to saw thru it to cause a leak. There is usually a steel mesh and Kevlar underneath the vinyl of the hose. If it gives you peace of mind you wrap the short 40mm section of cable that is sliding against the zip-tie with transparent tape, so it will just be plastic rubbing against plastic.

Heating the tape with a hair dryer for a 30 seconds might shrink the tape for a tighter fit.

You can achieve the same thing with [cable O-rings/donuts](#) but tape is cheaper. *But then again you should always have cable O-rings for your exposed cables to protect your paint.*

Another tip: If you want the BB plastic cable guide to last longer, you can slip short sections of Teflon liner where the cables contact. The liner will wear instead of the guide.

This is not poor cable routing. Rather we might call "poor" some of the slick clean internally routed systems out there which rely on custom rubber gaskets to keep moisture out of the

frame, gaskets which will probably dry and crack in 10 years with no replacements available, while zip ties and O-rings are cheap and will be around a long time.

Best regards,

Stan Pun
Merry Sales Co.
650-871-8870

merrysales.com
somafab.com
interlocracing.com
yokozunausa.com
newalbioncycles.com

From: Steve Vigneau <steve@nuxx.net>
Sent: Wednesday, September 14, 2022 1:45 PM
To: Stanley Pun
Cc: Interloc Design Group - Support

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Steve Vigneau <steve@nuxx.net>
To: Stanley Pun <stanpun@merrysales.com>
Cc: Interloc Design Group - Support <somainfo@somafab.com>

Thu, Sep 15, 2022 at 10:12 AM

Stan:

Good morning, thank you for the picture. This confirms what I found during the build: the frame design results in front derailleur cable rub on the brake system. This design and what the picture shows, a moving cable rubbing on the brake system, is a safety issue. I appreciate your suggestions, but they all involve adding material between the cable and brake line to delay -- not prevent -- the inevitable wear from affecting the brake. The only way this can be built safely is as a 1x system, without a front derailleur, which is not how the frame is advertised.

We can go back and forth about adding extra materials to buffer the cable rub, your feelings on how long this'll take to happen, and your thoughts on other designs, but the fact remains that the placing of these brake housing guides results in the shift cable interfering with the brake. I really love everything the Smoothie HP promised, but I am not comfortable riding a frame with this designed-in interference and risk. I will not be continuing this build on this frame.

I would like to ask you to send a shipping tag so that this frame and all the related parts purchased for it can be returned for a full refund. I hope that we can handle this directly and not involve a chargeback, as that's a process neither of us will enjoy.

For reference, the invoice numbers for my order are INV/43813, INV/43851, and INV/43852.

Thank you.

Steve

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Steve Vigneau <steve@nuxx.net>
To: Stanley Pun <stanpun@merrysales.com>
Cc: Interloc Design Group - Support <somainfo@somafab.com>

Thu, Sep 15, 2022 at 2:15 PM

Stan:

Please scratch the request for a refund. I've sold the frame locally to a friend who is going to put an eTap group on it and sidestep the cable problems.

Take care.

Steve

[Quoted text hidden]

Stanley Pun <stanpun@merrysales.com>
To: Steve Vigneau <steve@nuxx.net>
Cc: Interloc Design Group - Support <somainfo@somafab.com>

Thu, Sep 15, 2022 at 2:27 PM

Steve:

We do want our customers to be satisfied and we are sorry the Smoothie did not meet your expectations.

We wish you luck in finding a ride you will truly enjoy riding and love.

Best regards,

Stan Pun
Merry Sales Co.
650-871-8870

merrysales.com
somafab.com
interlocracing.com
yokozunausa.com
newalbioncycles.com

From: Steve Vigneau <steve@nuxx.net>
Sent: Thursday, September 15, 2022 11:15 AM

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