

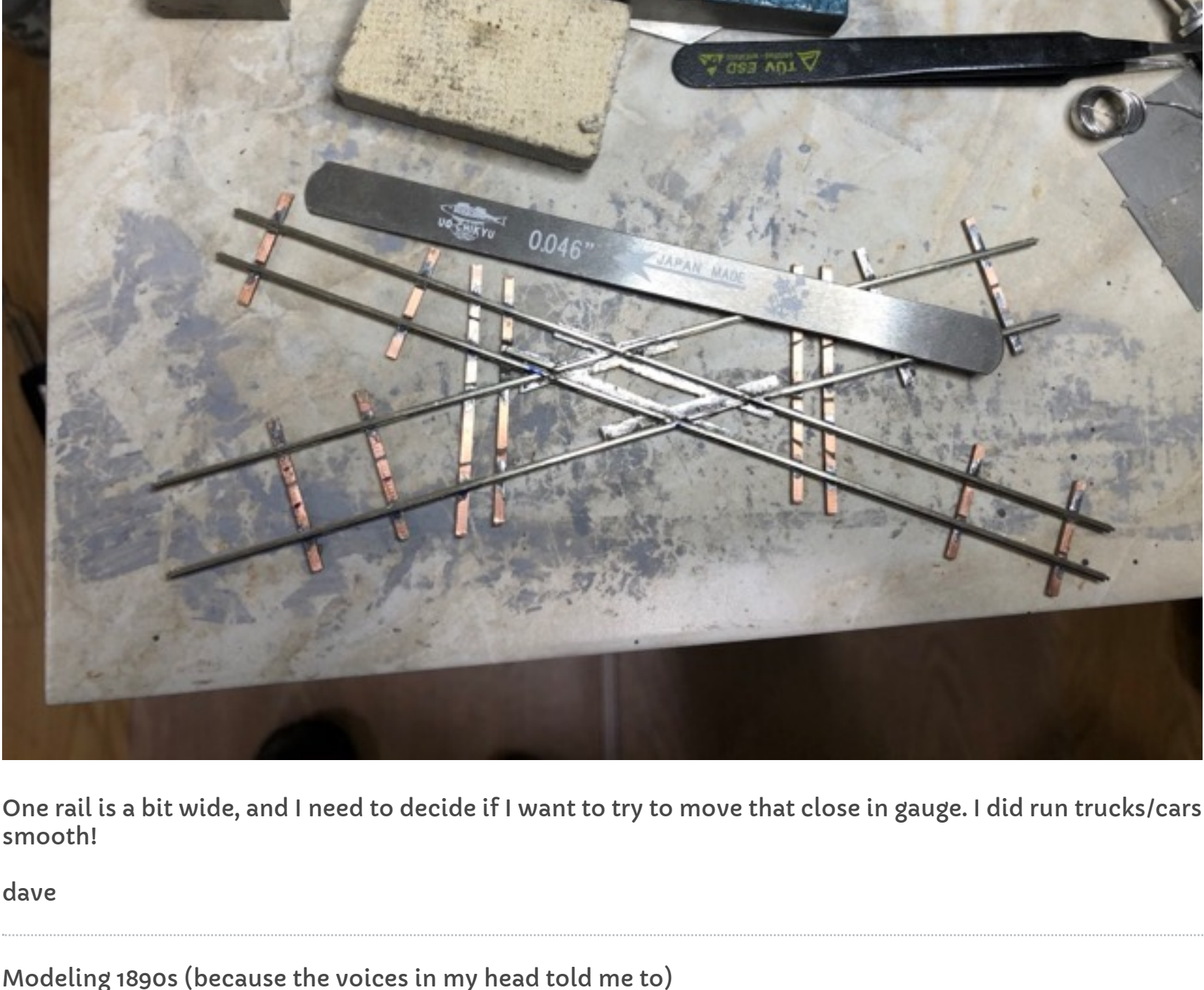
SL-and-N construction blog

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deemery Senior Member
Join Date: Sep 2007 Posts: 11493

06-21-2020, 08:19 AM #721

Well, once I started constructing the inner rails, I decided I really *did* need to cut the notches through the NG rails to line up the SG running rails. Fortunately, I have the perfect tool for that job! I got a set of these (I think from Lee Valley), they're used to cut the frets in guitar bodies. They work perfectly for cutting the notch through the rails, and the NMRA gauge makes sure the depth is adequate.



One rail is a bit wide, and I need to decide if I want to try to move that close in gauge. I did run trucks/cars through in both gauges, things were surprisingly smooth!

dave

Modeling 1890s (because the voices in my head told me to)

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jbbv Senior Member
Join Date: Dec 2007 Posts: 8212

06-21-2020, 08:45 AM #722

If 'a bit' is .010", I wouldn't worry. I'd say .030" is definitely worth fixing.

James

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Orionp17 Senior Member
Join Date: Feb 2007 Posts: 8839

06-21-2020, 09:12 AM #723

Looking Good, Dave!

Another "check gauge" to use is your ears. If you can run an appropriate truck through the crossing and not be able to hear when it goes through, then you're golden. If it clicks, groans, rattles or whatever, then you still have "issues" that will manifest themselves only when you have visitors... 😊

Don't ask... :erm:


Pete
in Michigan

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deemery Senior Member
Join Date: Sep 2007 Posts: 11493

06-21-2020, 11:28 AM #724

The real question is whether a .088 wheelset will fall through. Looks OK!



dave

Modeling 1890s (because the voices in my head told me to)

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railman28 Senior Member
Join Date: Mar 2010 Posts: 6713

06-21-2020, 12:12 PM #725

It does look good Dave. It's coming right along.

Bob

It's only make-believe

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Michael_Hohn Senior Member
Join Date: Sep 2012 Posts: 12238

06-21-2020, 01:57 PM #726

Excellent!

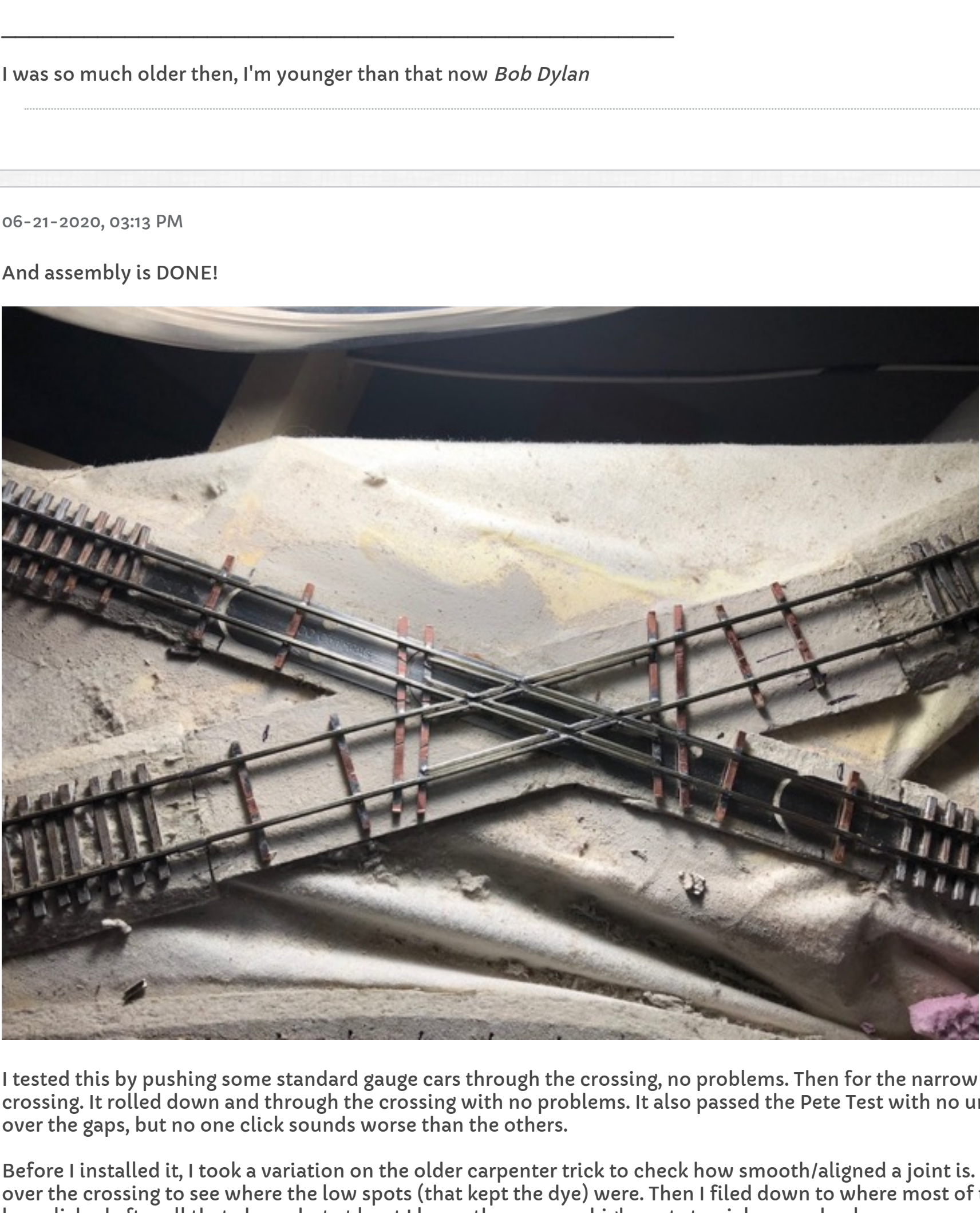
I was so much older then, I'm younger than that now *Bob Dylan*

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deemery Senior Member
Join Date: Sep 2007 Posts: 11493


06-21-2020, 03:13 PM #727

And assembly is DONE!



I tested this by pushing some standard gauge cars through the crossing, no problems. Then for the narrow gauge, I took a truck and started it uphill from the crossing, it rolled down and through the crossing with no problems. It also passed the Pete Test with no unexpected noise. There are clicks as the wheels go over the gaps, but no one click sounds worse than the others.

Before I installed it, I took a variation on the older carpenter's trick to check how smooth/aligned a joint is. I put blue dye on the rails, then ran a sanding block over the crossing to see where the low spots (that kept the dye) were. Then I filed down to where most of the dye was finally removed. The rails will need to be polished after all that abuse, but at least I know there are no high spots to pick on a wheel.



I washed the entire crossing in water, then scrubbed it with acetone to remove the residual dye and any flux, etc.

dave

Modeling 1890s (because the voices in my head told me to)

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BurleyJim Senior Member
Join Date: Jan 2014 Posts: 7456

06-21-2020, 04:38 PM #728

Machinist's trick Dave, carpenter's were only allowed to use pencils. 😊😊 It looks terrific!

Jim

Take the red pill

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Orionp17 Senior Member
Join Date: Feb 2007 Posts: 8839

06-21-2020, 04:47 PM #729

“
@ccc
Originally posted by BurleyJim
Machinist's trick Dave, carpenter's were only allowed to use pencils. 😊😊 It looks terrific!
Jim
”

What Jim said! Nice job! 😊😊😊

Pete
in Michigan

: this sounds like a good time to break out the Piezo Buzzer rig and test things, too... Silence is golden... 😊

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jbbv Senior Member
Join Date: Dec 2007 Posts: 8212

06-21-2020, 05:35 PM #730

Looks good, Dave.

James

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wvrr Senior Member
Join Date: Sep 2002 Posts: 7214

06-22-2020, 02:27 AM #731

Nicely done, Dave.

Chuck

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George_D Moderator
Join Date: Dec 2003 Posts: 19018

06-22-2020, 03:15 AM #732

Good looking crossing, Dave.

George

Before each flight, make sure that your bladder is empty and your fuel tanks are full.

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Dutchman Administrator
Join Date: Jul 2003 Posts: 38113

06-22-2020, 03:24 AM #733

Nicely done, Dave.

Bruce

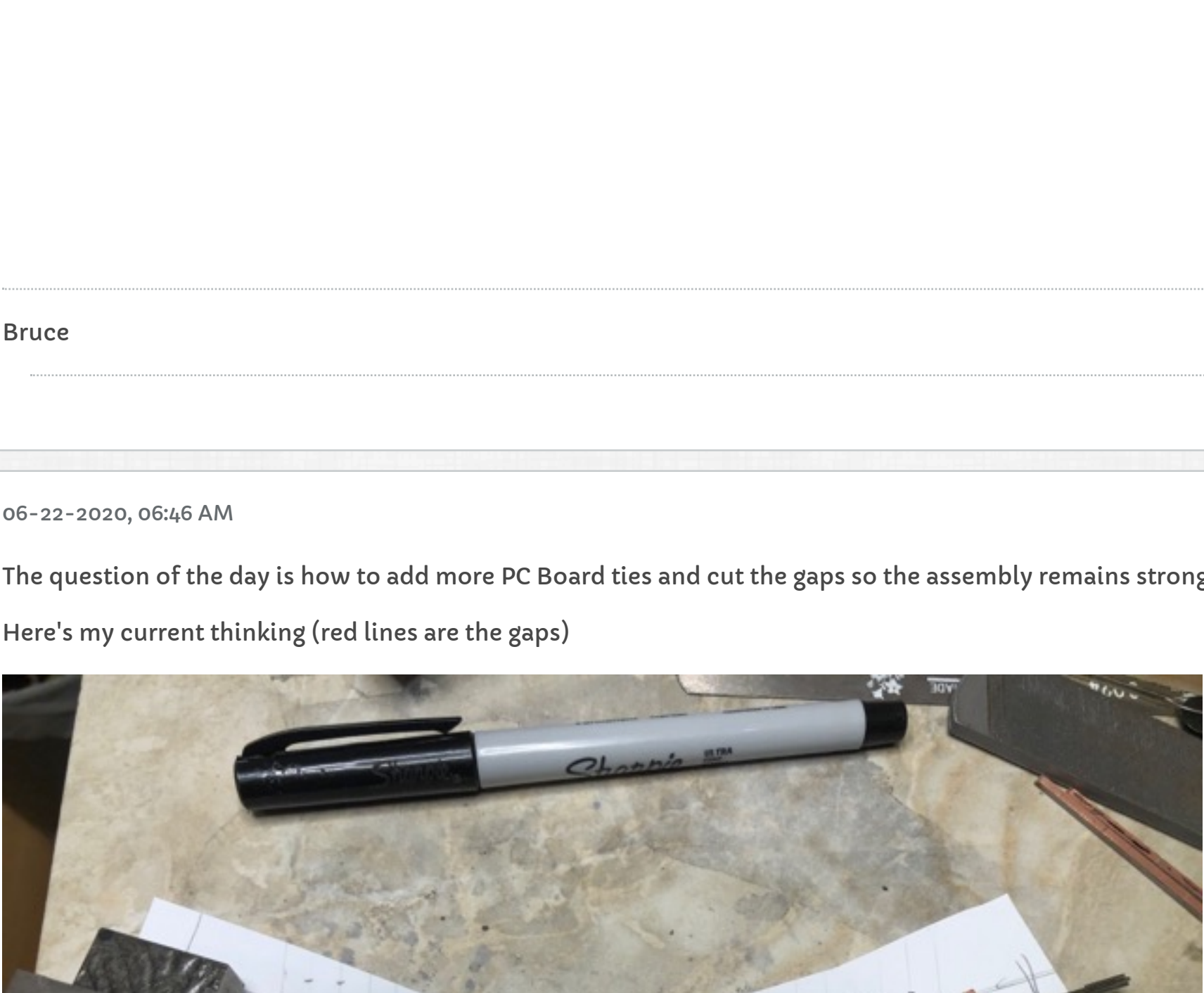
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deemery Senior Member
Join Date: Sep 2007 Posts: 11493

06-22-2020, 06:46 AM #734

The question of the day is how to add more PC Board ties and cut the gaps so the assembly remains strong and in alignment.

Here's my current thinking (red lines are the gaps)



Each corner of the brass is its own 'electrical section'. I think if I add these PC Board ties, they'll be sufficient to hold everything together.

Because of the crossing shim underneath the crossing, I'll have to substantially file down the back side/reduce the thickness of the PC Board ties underneath the center of the crossing.

dave

Modeling 1890s (because the voices in my head told me to)

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jbbv Senior Member
Join Date: Dec 2007 Posts: 8212

06-22-2020, 08:08 AM #735

If you cut on the two outer long lines, you divide the diamond into three pieces. I suggest you trust the gaps you've cut into the copper of the ties and stagger the rail cuts so the outer long ties can hold things in alignment. Also, to your question in the Lounge, I'd glue the wood ties to the installation, check the fit by putting the diamond in place, then cut the gaps while the glue dries. Finally, spike the diamond to the wood ties and complete the roadbed.

James

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