Linkage play--your technique for consistency?

Posted by dgriff - 25 Feb 2012 14:28

Not mentioned much, if ever, is the effect of axial arm/paddle play and linkage play on the angle. Using the Angle Cube one can see fully a 1.5° angle change on my WEPS depending on how one holds the paddle.

The variation is the sum of the paddle and linkage play when you push the paddle in or pull the paddle out at the bottom. I think the best method is to push in, because it takes less effort, and if you relax your concentration, your hands will naturally fall inward.

When I want to check the nominal angle symmetry during setup--knife edge centered--I let the paddle drop all the way down so the link snuggles into the paddle's concave recess. This becomes my nominal angle, but likely not the exact angle depending on how I handle the handle....

How do others *handle* this? (no pun intended)

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Re: Linkage play--your technique for consistency?

Posted by StevenPinson - 27 May 2012 08:58

Hey Phil,

Ah! The rubber washer. I put it there so when I fumble the stone it drops onto the washer and does not damage the stone. I guess it does shield the joint a little as well. I got them at Sears.

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Re: Linkage play--your technique for consistency?

Posted by Monk69bl - 27 May 2012 22:35

I know this is a vastly inferior product but I thought the nylon bushing or the way it is held maybe you can use a similar method to hold the end rod bearing. Check out 2 min 30 secs. for how the bushing is held

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Re: Linkage play--your technique for consistency?
Posted by PhilipPasteur - 29 May 2012 14:26

I have a question for the group, though I swear it has been posted somewhere on the forums before, I can't find it.

What is the proper size replacent screw for the base of the rod assembly where it slide on the square part with degree markings.

I took the original over to Home depot and could not get it to thread into any of their gauges. 10X32 and the M5 .8 were the closest. I brought both home and the metric one seems to fit the best. That doesn't seem right. The 10X32 also fit, but seem pretty loose.

Anyway ... does anyone kno what I *should* be using??

Tanks,

Phil

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Re: Linkage play--your technique for consistency?
Posted by DennisHibar - 29 May 2012 17:34

10-32s work well for me. Don't seem loose to me and hold quite securely with very little force.

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Re: Linkage play--your technique for consistency?
Posted by PhilipPasteur - 29 May 2012 21:31

Thanks.

Both sets of screws that I bought work. Both when screwed in partialy have a bunch of slop axially in any direction until they are snug. But, they work OK with minimal pressure. They just don't thread in properly.

I figured out a work around. I have two sets of arms. One stock and one that the nice folks at WEPS

modded for me. I took one set of the knurled screws and just filed the ends flat. I ran them into a 10 X 32 die to make the starting threads good. That is it. Original screws that work for fine adjustments.

I can tighten them by hand, and the adjustment is not going anywhere. Much better than using the pointed screws on the back side of the square adjustment bar... and, I don't have to reach over the device to tightens them. For some reason, still would like to know why, they thread in much better, with less slop, than either of the hardware store replacements.

Clay, when you have time, can you confirm the actual size and thread of the original screws??

I have the hex cap screws if I need them later.

Again,

Thanks for the reply !!!

Phil

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Re: Linkage play--your technique for consistency?

Posted by JerryStephenson - 15 Jun 2012 23:18

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I have a milling machine so I made new arms out of 1/4" drill rod. Fits much more snugly into the stones which are about .255 ID. The arms that came with the machine are .235 or so. I machined the width of the bottom tongue to fit very snugly into the u-joint and eliminated just about all the movement. Took me about an hour using a collet block to get the faces parallel.

--Jerry

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Re: Linkage play--your technique for consistency?

Posted by JerryStephenson - 15 Jun 2012 23:19

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PS I reused the pins. No need for machine screws. --Jerry

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Re: Linkage play--your technique for consistency?
Posted by Billabong - 24 Nov 2012 13:12

Just thought I would bump this thread as cbwx34 thinks this was never an issue and I am only one of a few with this problem.

Interesting to see the straws and the ball joint ideas were conceived in this thread also.

wickededgeusa.com/index.php?option=com_k...0&Itemid=63#2350

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Re: Linkage play--your technique for consistency?
Posted by cbwx34 - 24 Nov 2012 13:21

Hey Chris...

I didn't say that at all, and don't appreciate being taken out of context.

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Re: Linkage play--your technique for consistency?
Posted by razoredgeknives - 24 Nov 2012 22:10

Billabong wrote:

Just thought I would bump this thread as cbwx34 thinks this was never an issue and I am only one of a few with this problem.

Interesting to see the straws and the ball joint ideas were conceived in this thread also.

wickededgeusa.com/index.php?option=com_k...0&Itemid=63#2350

I also failed to see where CBW said that... what he said was

I think because a few we're pretty vocal about the pins, it was perceived as a problem that needed replacing. I'm not sure of the numbers, but I'm guessing that if it was a large number it would be replaced, if for no other reason than it would quickly become time consuming and costly to replace a large number after they're sent.

he said a "few were pretty vocal about the issue," not that only a few had the problem. He said that he was not sure of the numbers...

I posted on this thread a while back and have had my WE for around a year now... I am well aware of the issues that it had back then. I modded mine to suit my needs/desires, and since then, Clay and the team at WE have only made it better. The ball joint upgrade option is one example of this. They jumped right on the issue when my vise bent, and sent a new one out without me sending in my bent one first. If you have a problem w/ the way WE did something, call them and work it out. I know first hand they will work with you and make it right...

So, the consistency issues are being worked out continually... but most never need the upgraded ball joint arms. Like Philip posted from Bob Nash, unless you are sharpening straight razors and OCD you don't need it =) I sharpen straights w/ my old joints and they are fine.

Now that this thread is thoroughly disrailed

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