Corn Burners Forum - I Burn Corn

Generated: 22 May, 2013, 14:31

Bixby feed wheel	compatability?)
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Posted by mattg889 - 27 Feb 2012 04:10

My question is will the feed wheel from the newer model Bixby stoves work on my old model 100? I haven't found any measurements of the new wheel so I can't compare it to my old one. The pictures I have found look like it would work, but I want to check before I spend the \$130 on it. I know the different wheel will mess up the fuel rate, but it is already messed up with the original wheel (when using pellets)...

Back story:

I recently got a older model Bixby stove. Model 100. It works great with good corn. but the corn I have gotten recently won't stay lit through a ash dump. The stove can burn pellets and it burns them well as long as they don't plug or jam the feed wheel. But it usually takes less than a half hour for them to plug or jam it. Which leads me to my question above.

(note: I moved this here from "Beginner's Questions", not sure where it belongs)

Re: Bixby feed wheel compatability? Posted by steadywoman - 27 Feb 2012 14:21

Hey ya Matt. I'm sure one of the guys will chime in about the feed wheel. I don't think the size has changed but you're probably right on the fuel rate problem but I would think that could be solved with tuning. I think most have found the older stoves work better with corn. We've only burned corn in ours because our dealer had said the 110's and 100's don't do well with pellets so what the heck...corn it is.

Try getting hold of a bag of stove corn and see how she does on different fuel. You could also try mixing corn and pellets, that might help your jamming. Have to be careful that your brand of pellets aren't too long for the cups and aren't loaded with dust. A mix would help that. At least you'd have the more consistant kernal size to counter balance the pellet size. Also, pellets eat up the feed wheel gasket. There's info in the Wiki on some modifications some have done on the gasket.

Good luck and h	appy burning.		
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Re: Bixby feed wheel compatability?
Posted by rona - 27 Feb 2012 16:43

Hi Matt welcome to the forum.

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The 100 was a origional model and many changes have been made. It will burn corn well but pellets may be a challenge in several ways. You have a different wheel, different style board, and probably several other things.

That said the best choices would be find very short pellets and use the feed rate and exh fan speed to help you. I would guess long time dealers would remember some more differences. It seems like one expert said it would burn corn very well but pellets would be a struggle.

What you could do is take some pictures of the wheel in your stove and some measurements as that would help determine if a newer wheel would be interchangeble. I would be surprised if somebody hasn't tried this but you don't hear about many 100s.

Re: Bixby feed wheel compatability?

Posted by blume 98 - 27 Feb 2012 17:00

feed wheel should fit, you can add 115 feedwheel to 110 and change programing to suit feed wheel never did it never even saw a 100 so dont know about board and programing think wheels are same on 110 and 100, might email Mike at bixbystoves .com or call bixby ,ask for Mike, let message, he will get back to you

there is a conversion kit for 110 to 115 expensive

use only short pellets, i'm running 20 % pellets on 110 with no changes to anything, set on corn, no problems at all

Re: Bixby feed wheel compatability? Posted by mattg889 - 27 Feb 2012 21:10

Wow thank you for all your quick responses.

The reason I ask about the feed wheel is I would like to mix pellets with corn, or even use pellets as there easier to get. But I can't find any supplier with short pellets. Someone said that the model 100 and 110's don't burn pellets good, and over the past couple months of using the stove. I have found that it does burn the pellets great as long as it can get them to the burn pot. The feed wheel seems to be the problem as far as pellets go. Watching it, the pellets either fall out of the holes half way up, they plug the holes, or they jam the wheel. Seems like the holes are just to small and the new wheel looks like it would solve that problem. I will try to get in touch with mike.

I would prefer to use corn, but the bags of stove corn at fleet farm are outrageously priced, we would be better off using our fuel oil furnace. I can get the corn for a decent price at the feed mill down the road, but for some reason there corn just won't stay lit through a ash dump. They say its at %15 moisture.

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Re: Bixby feed wheel compatability? Posted by mattg889 - 27 Feb 2012 21:12
Oh, should I start a new topic when I think of a related, but at the same time unrelated question?
Re: Bixby feed wheel compatability? Posted by Corny - 27 Feb 2012 23:25
Welcome aboard, Matt.
If the stove won't stay lit after an ash dump, then you likely don't have a high enough fuel level in the fire pot prior to the dump. Have you tried increasing the feed rate a tad?
Here's the WIKI page for technical information on the stove:
forum.iburncorn.com/wiki/index.php/BixbyFAQ#Feeder_Wheel
and here's the related WIKI page for general stove information: forum.iburncorn.com/wiki/index.php/Bixby
If you change the feederwheel, you'll definitely need to change the stove's programming. That's because there will be a different number of feedwheel turns to accommodate the larger but fewer feedwheel pockets. You'll be venturing into new territory, so the wisdom of Mike at Bixby will be helpful. I wouldn't attempt the conversion without first checking with him. To upgrade your stove's programming, you'll need Bixcheck software for that, downloadable from Bixby for free.
forum.iburncorn.com/wiki/index.php/BixbyFAQ#BixCheck_Software
You'll also need a cable as explained in the same page. When you speak to Mike, tell him your s/n and ask if your board has a bootloader. If not, you won't be able to upgrade the software through Bixcheck.
Wishing you success and I'm hoping that you'll keep us posted on your progress.

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Re: Bixby feed wheel compatability? Posted by blume98 - 28 Feb 2012 00:52
doubt if it has a bootloader, some early 110 didn't have, i don't see a 100 board as being a good part number
Re: Bixby feed wheel compatability? Posted by mattg889 - 28 Feb 2012 01:18
The model 100 does a ash dump differently than the newer models. But I know it is the corn that is the problem. When I got the stove it had some corn in it and it burned through that without a single problem. It's amazing what a difference the corn makes.
I found that wiki for the feeder wheel before, but it doesn't have any measurements there, I still have to contact mike, I was gonna do that tomorrow.
It is funny how everyone on here is leading me up to the other topic I was thinking about. I know it doesn't have the boot-loader and it can't be updated. I would have to play with the feed and exhaust rate a lot.
The model 100 doesn't even have a computer connection. The other topic I was thinking about opening is about if anyone has had any success connecting a computer to the model 100. blume98 is right, I can't find any documentation what so ever for the model 100 board. Does it need the boot-loader for bixcheck to even work, or just to update the firmware? If I could get a computer connected to it I could tweak it even more.
Re: Bixby feed wheel compatability? Posted by Corny - 28 Feb 2012 01:23
Matte dans communication in an and books at 10 normalists of a construction from the 4450 That was it for the
Matt, does your motherboard have a J3 connector as shown here for the 115? That port is for the cable.

forum.iburncorn.com/wiki/index.php/File:...reMotherboardTop.jpg