Figure Class Chapter 3

by Chris Walas



Welcome back! In this chapter we'll cover considerations for doing sitting figures; we'll learn how to make and use texture pads and molds; and wonder of wonders, we'll do an engineer and fireman! If that goes well, we may even attempt the impossible, fitting an engineer into the nearly non-existent space in the cab of a Bachmann Annie! The figures we'll be doing follow the same basic techniques as we've used before, so I won't be going into much detail on the aspects we've already covered.

Remember that the figures you make are YOUR figures for YOUR railroad. Take a look at what you've got on your layout and see where a figure might be used to add interest, humor, or merely to draw attention to some of your marvelous model work. We humans are drawn instinctively to one another, even if one of us happens to be 3" tall. Use your figures as pointers on your layout to get visitors to look at what you want them to look at. If three figures are standing all looking at something, people will automatically look to see what they're looking at. Just like real life.

Having said that, the figures we will be doing this chapter are for the most part "life-givers". They add life to the railroad simply by them being there. An empty locomotive is a cold locomotive. When an

engineer leans out the window, suddenly that engine is alive and ready to move. Look at your trains and buildings and see where you most need to add life. It doesn't take much. A pair of figures here, a lone hobo there and soon the layout comes to life. A house is just a building, but when a family moves in, it becomes a home.

The Sitting Figure



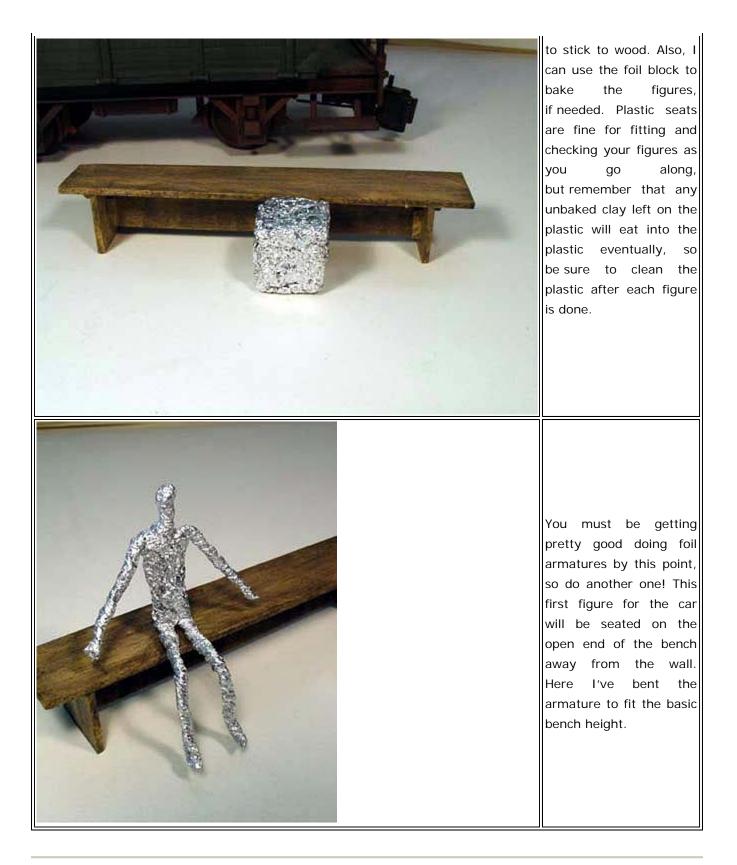
Every garden railroad needs sitting people, and I don't mean the operators! The sight of empty coaches, empty benches, and empty cabs looks...empty. People riding cars, waiting at stations, eating in restaurants, engineers, well... all kinds of sitting figures really, help to fill in the little world of a garden railroad. That's the reason so many manufacturers make sitting figures. And even with the variety they make, it's not nearly enough for most people. The figures I'll be doing in this chapter are for illustration; I don't expect you to try to do copies. This chapter is about considerations for fitting figures where you need them. The first figures we did were standing figures. The only fitting concerns were the contact points of their two feet. A basic fitting figure has at least three contact points; two feet and a rear end. In a seat with a back, add a fourth contact point for the back. If that same seat has armrests and your figure is taking advantage of them, add two more contact points. Add another if your figure is asleep and his head is resting on the top of the seat. That's seven points of contact your figure has with the seat it's sitting in.

What happens if these contacts points don't make contact (or at least suggest that they do)? The figure looks like it's levitating, magically floating out of the chair! Plainly, it's not as convincing as a figure

that looks comfortably settled into the seat. That's the real trick of doing seated figures that look good; making them appear to fit the seat they are in. How do we do this? By taking advantage of the form of the seat wherever we can. And by varying the sitting pose to fit the mood of the setting. Figures for excursion cars should be having lively conversations, gazing at the sights, and in general look like they're having a good experience. Figures for a commuter train should be nodding off, reading the paper or downing their first coffee or martini of the day. Every setting, every era, has it's own opportunities to make figures unique. Think about who the passengers are on your railroad, why they're there, where they're going.

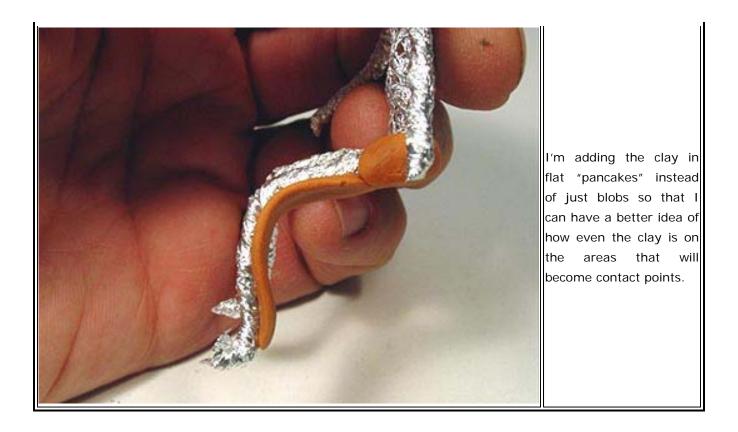
The figures I'm doing for this section are for my Rogue County excursion train. Sightseers. I've filled two of the four cars I have and now I'll do figures for a third. As we haven't covered women and children yet, this will be the "guys" car. It looks like this.



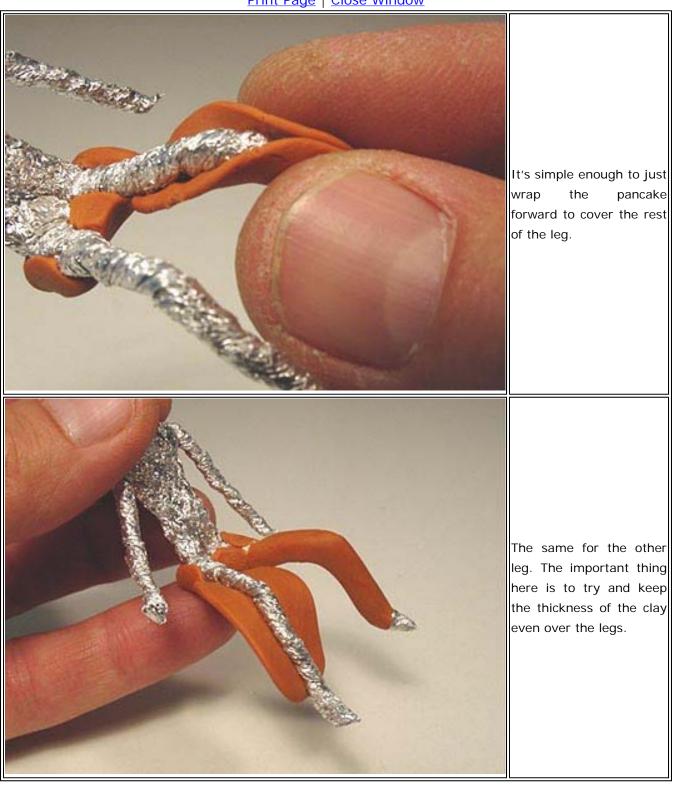


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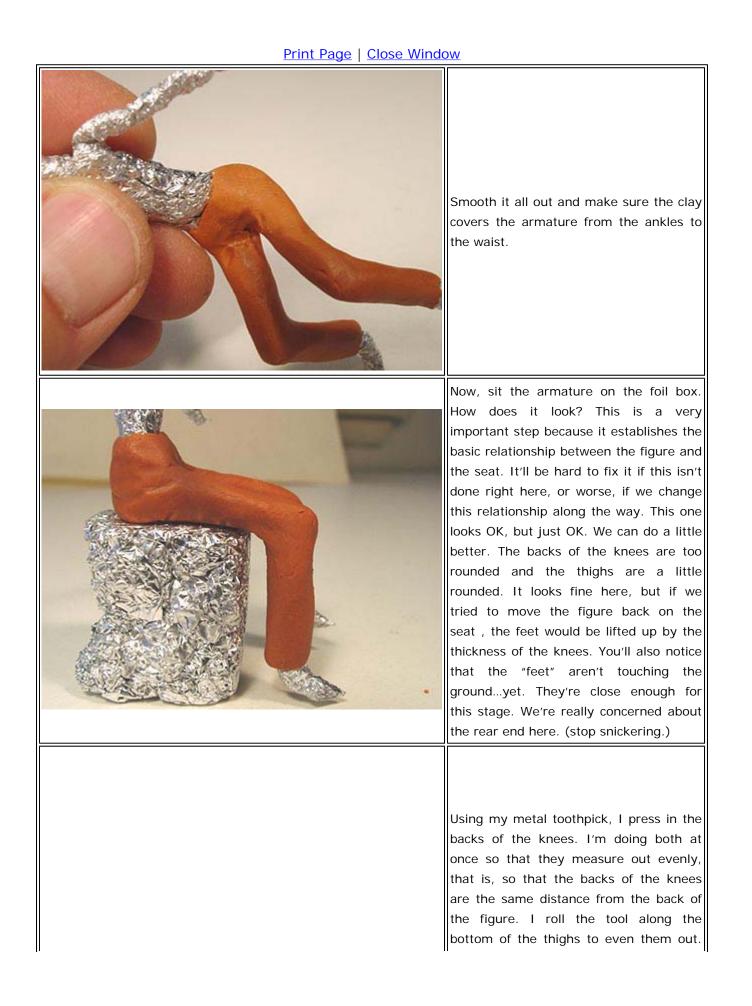


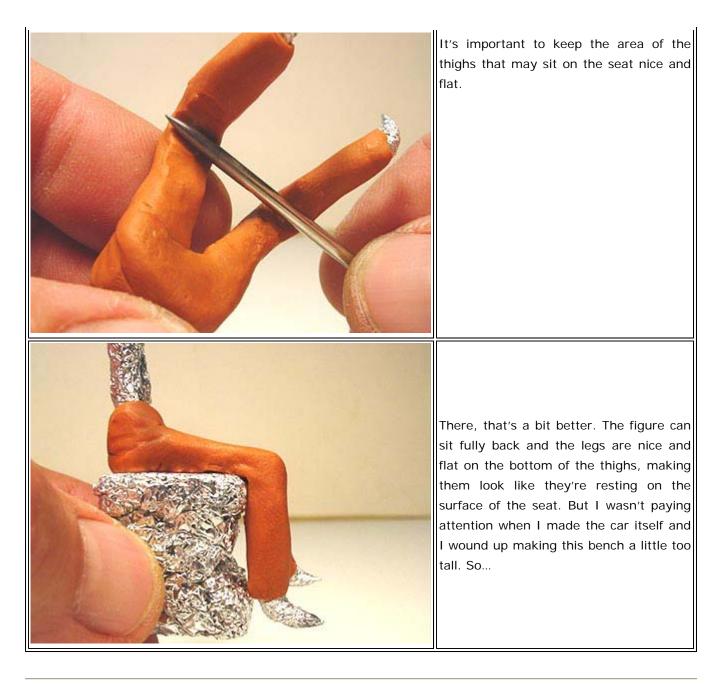
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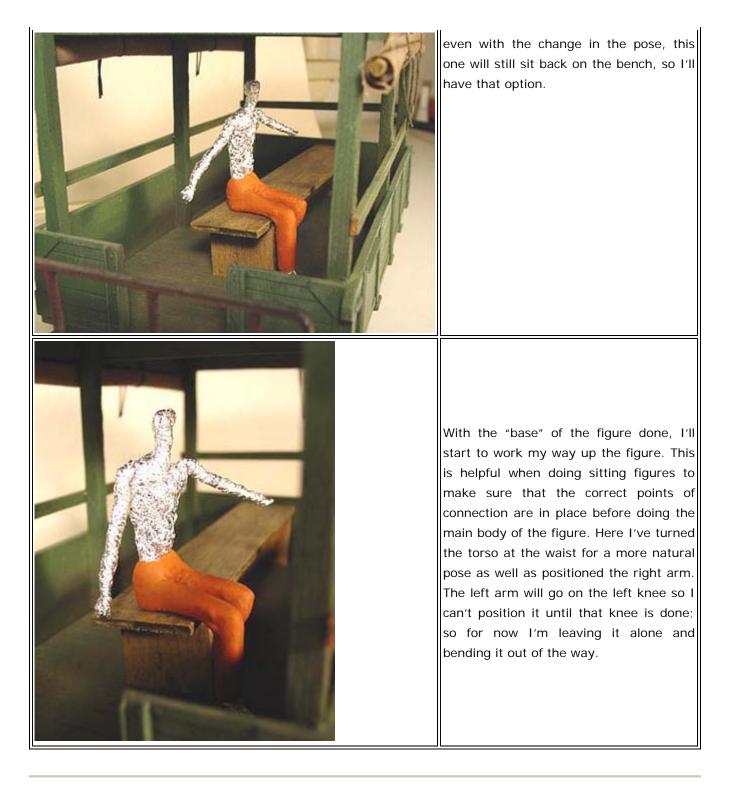
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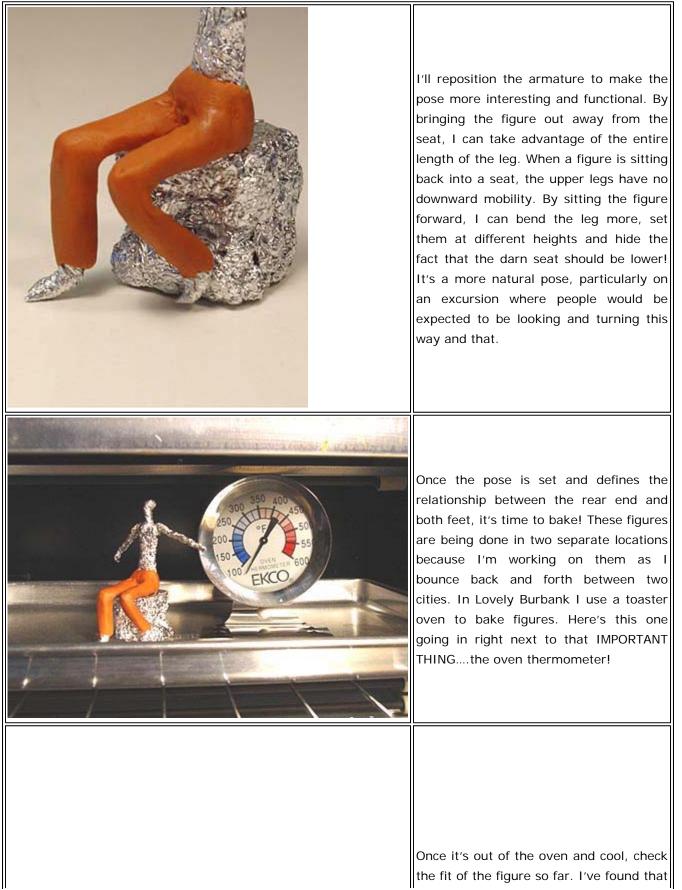




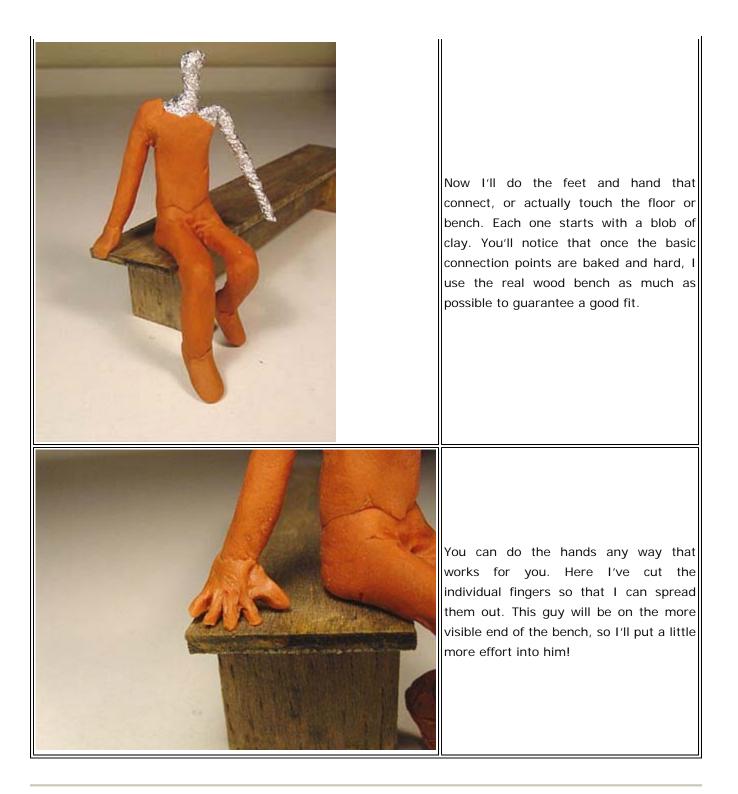
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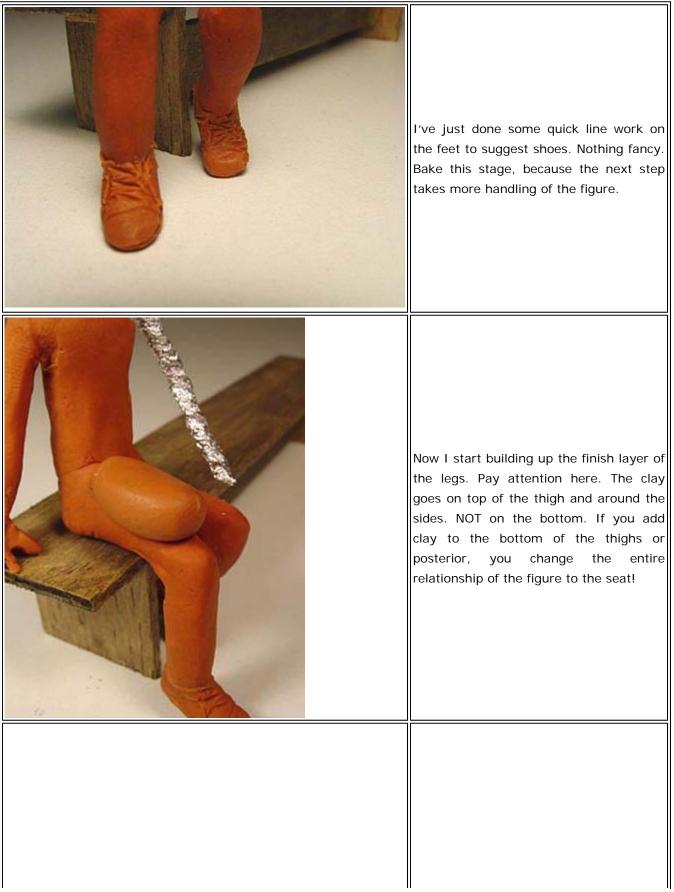


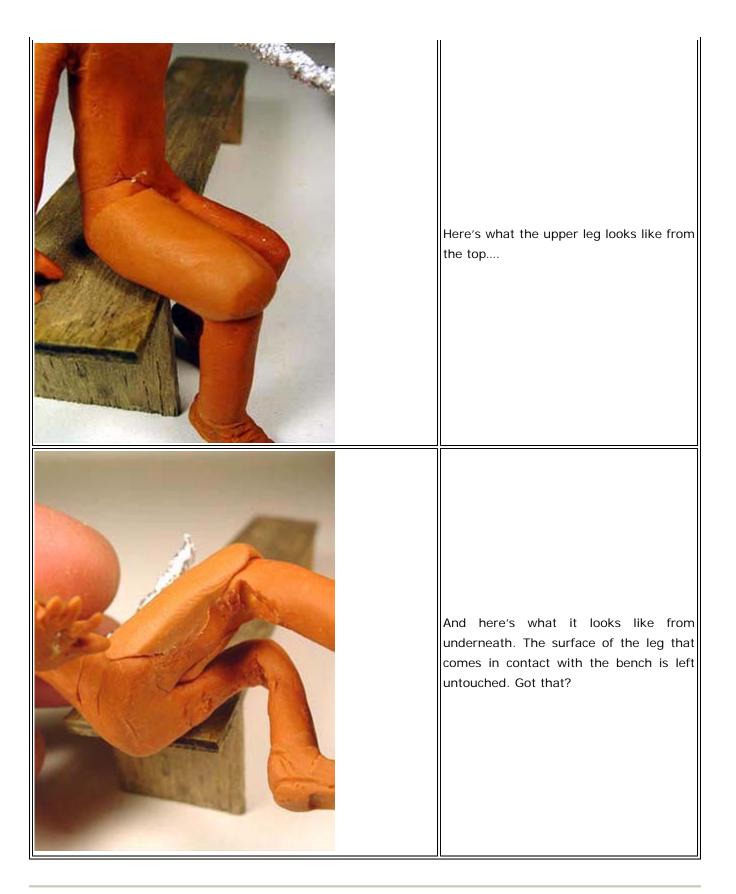
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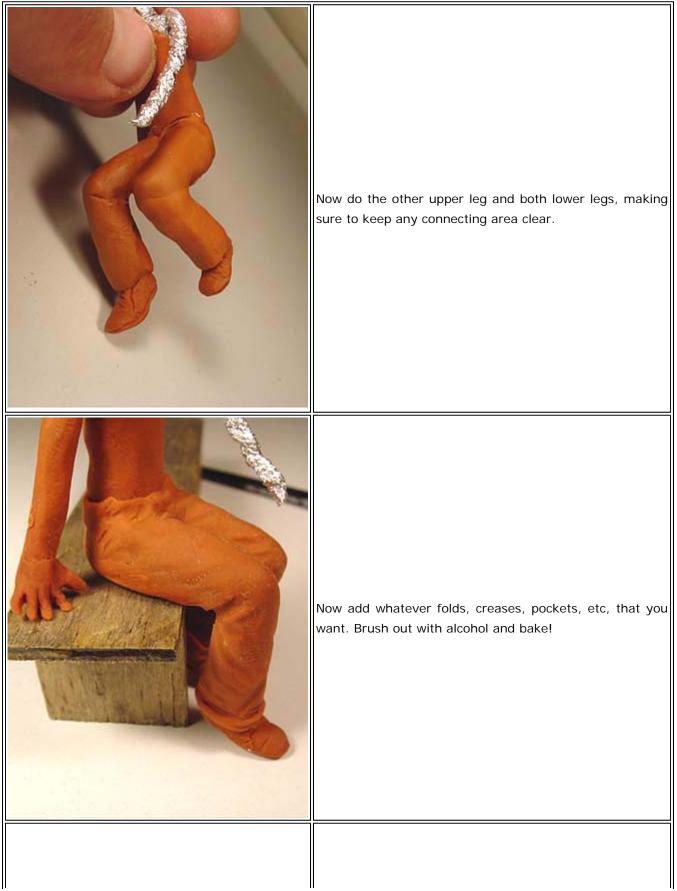
Now I've covered the torso and right arm with a first layer. This will define all four points of connection for this figure; the two feet, the rear end and the right arm. After this stage is baked, check the fit again! These figures can have a tendency to distort slightly during baking , so it's important to check continually.

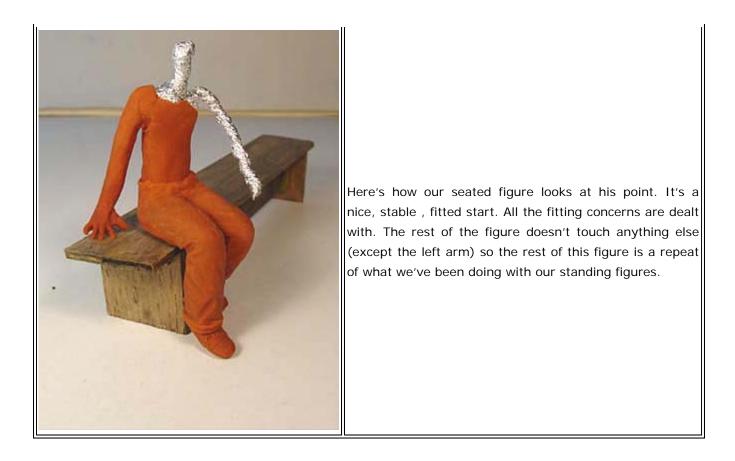


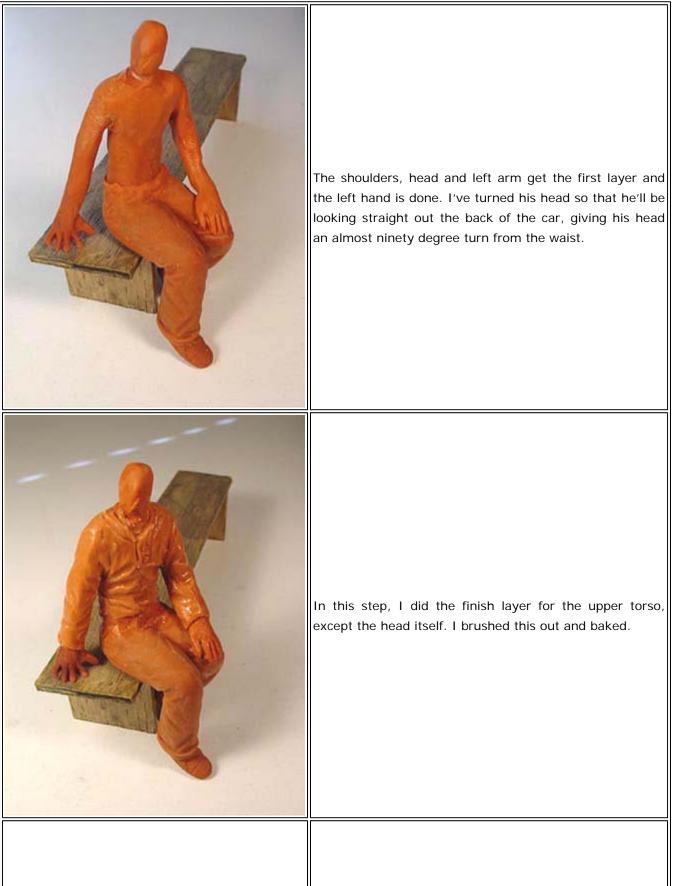


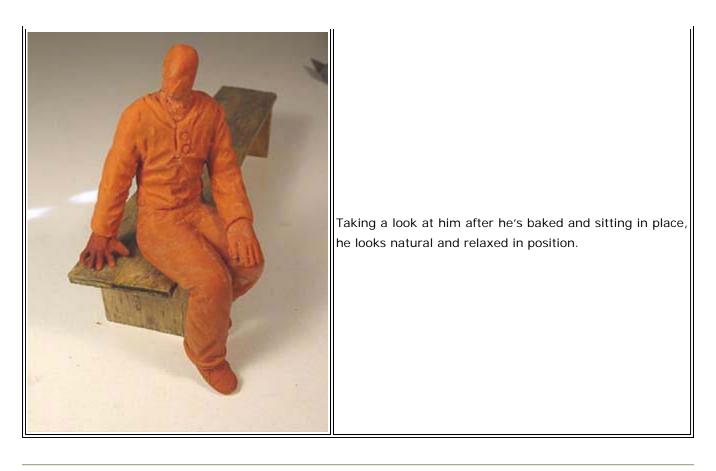


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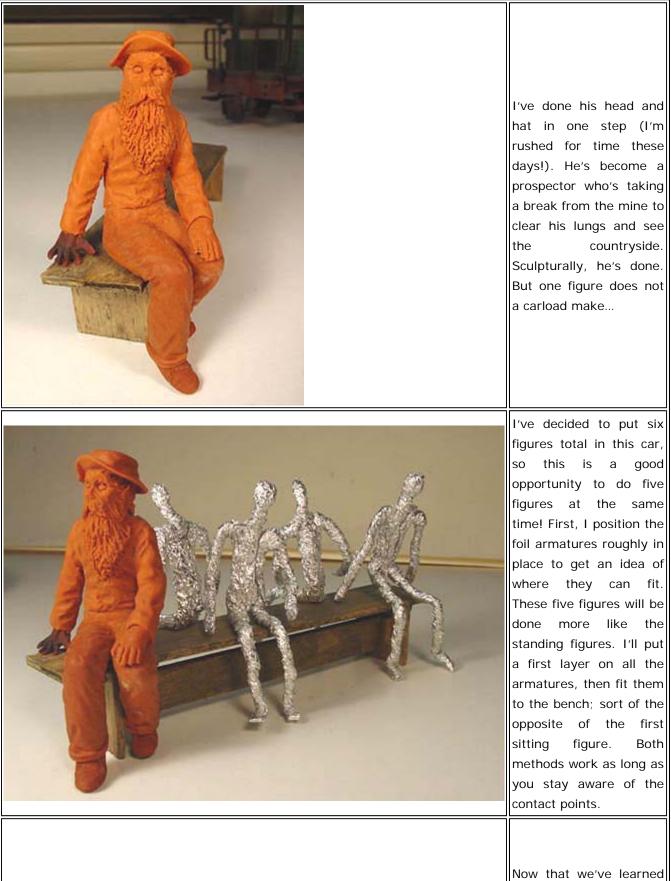






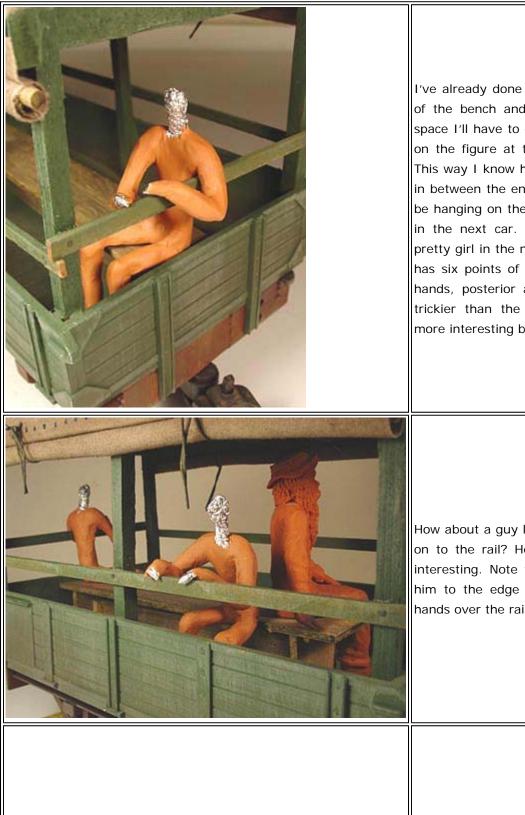






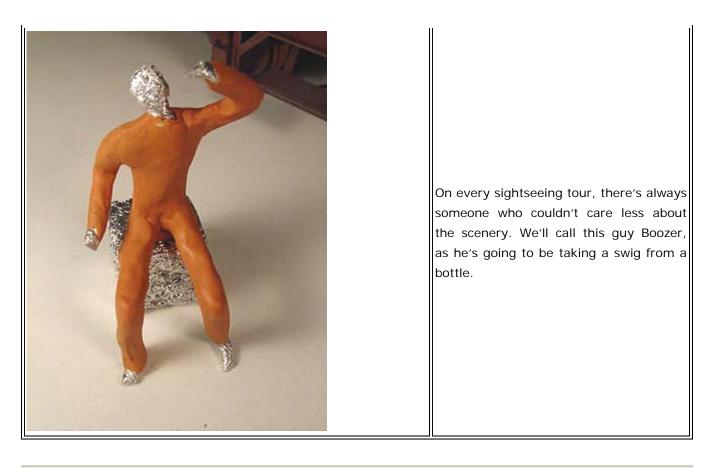


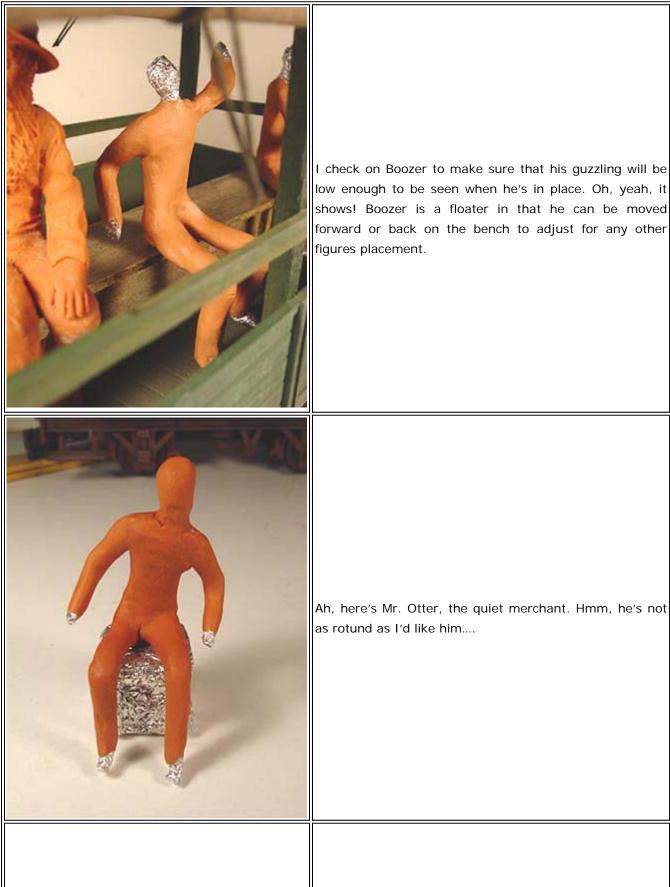
the basic considerations for sitting figures, we more be adventurous! I've put the first layer of clay on all five armatures. Here it's easy to see how quickly those thin armatures will fill out the bench when they become figures.



I've already done the figure for one end of the bench and to make sure of the space I'll have to do the others, I'll work on the figure at the opposite end next. This way I know how much area there is in between the end figures. This guy will be hanging on the rail, looking at people in the next car. (Note to Chris; put a pretty girl in the next car). This guy now has six points of contact; two feet, two hands, posterior and underarm. A little trickier than the first guy, but maybe more interesting because of it.

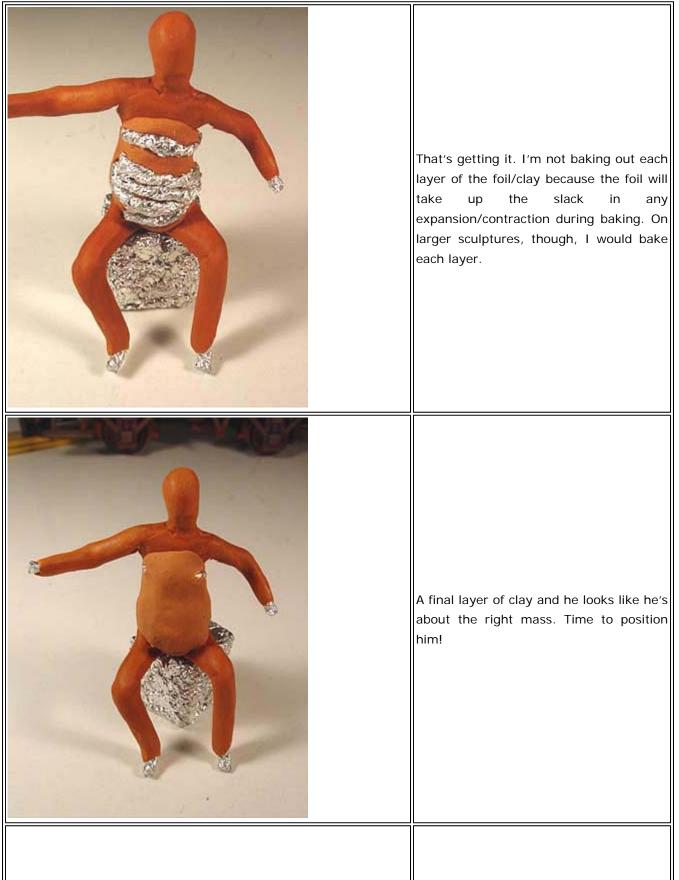
How about a guy leaning forward holding on to the rail? He must see something interesting. Note that I've had to move him to the edge of his seat to get his hands over the rail. Let's call him Looker.

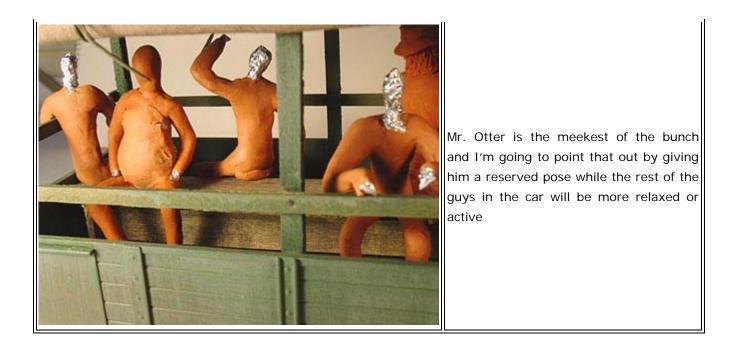




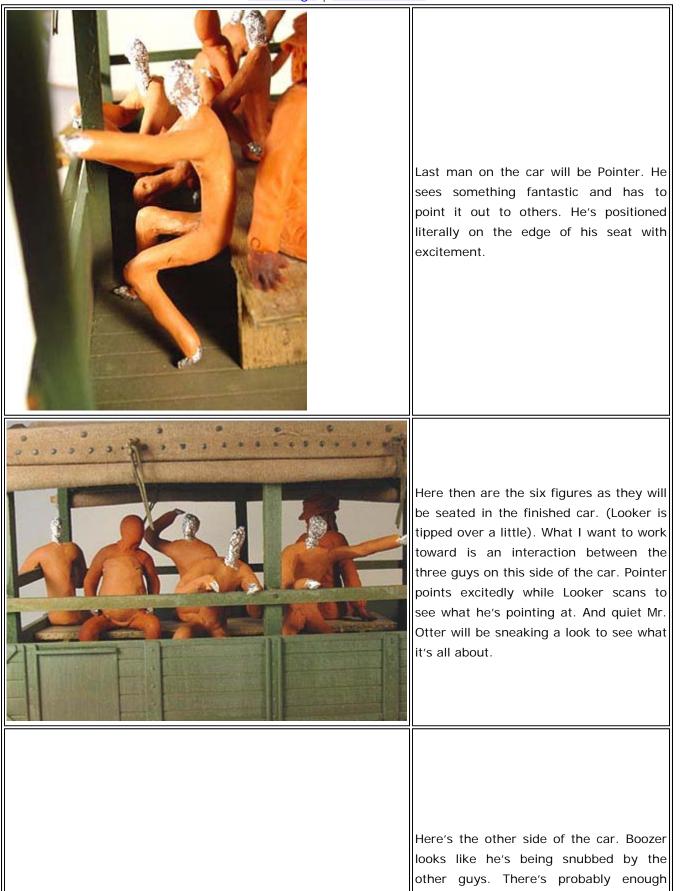


I add a blob of clay and then take a bunch of armature cut-offs and stick them in place to help fill him out. Using the foil is good for two reasons; (1) it uses less polyclay and (2) it helps to prevent cracking in the baking stage by keeping the clay from getting too thick in one layer. Speaking of layers, I think Mr. Otter needs another...



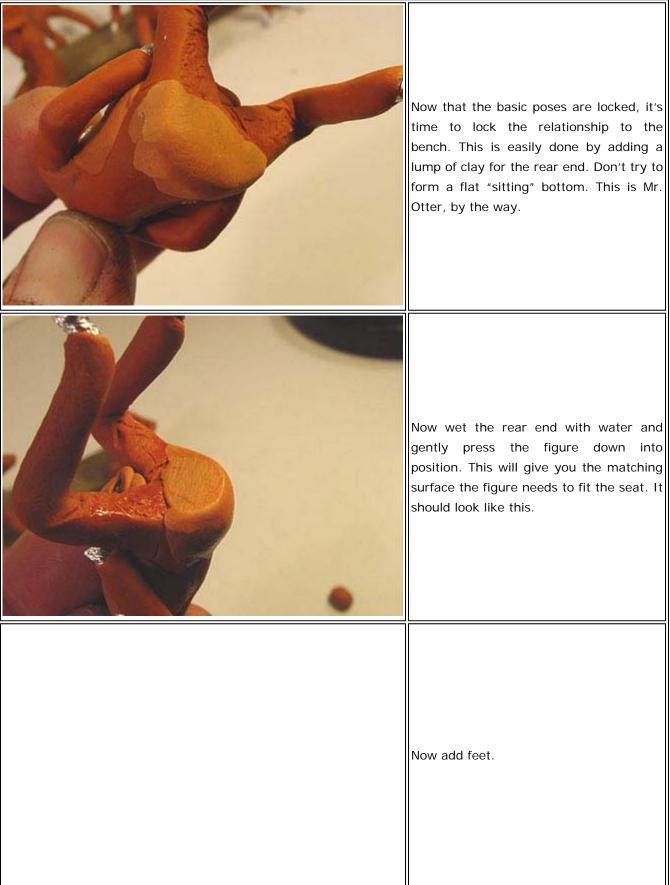


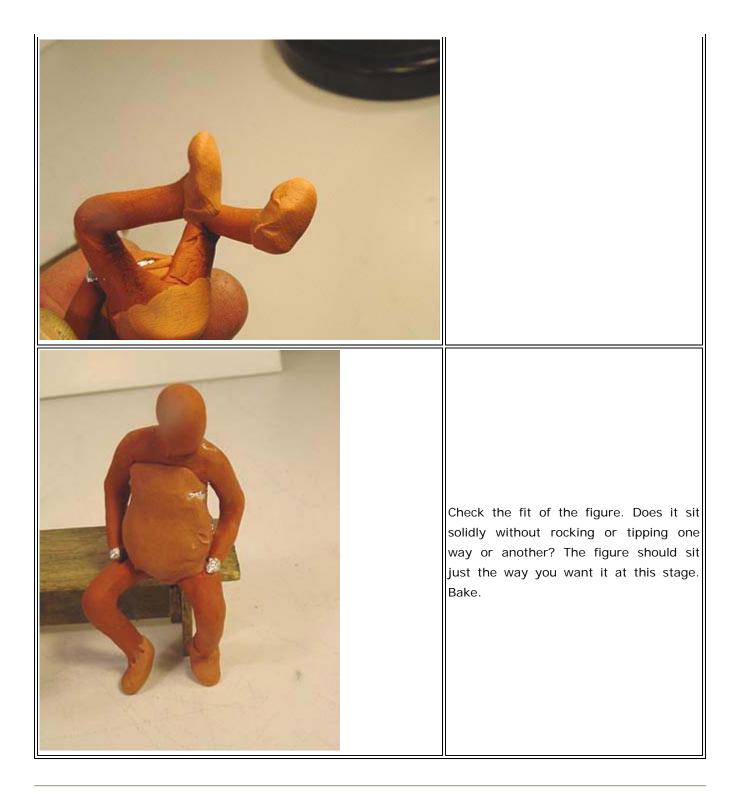
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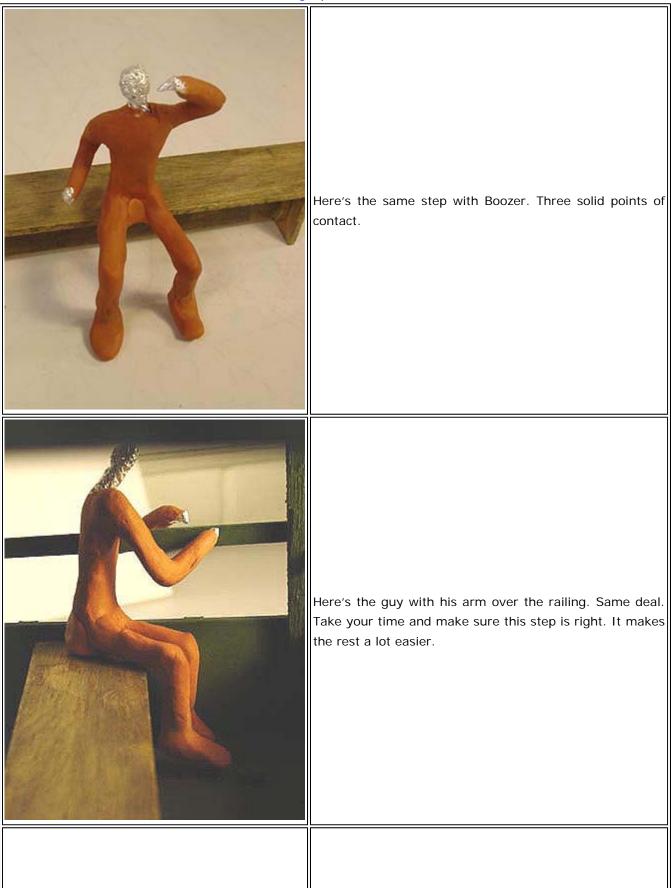
<image/>	room on this side for another figure, but I'll wait until I get these guys done to see for sure.
	Here's what the bunch looks like from overhead. You can see that there's still room in between them all, more on one side than the other. But I'm happy with the basic layout of the figures, so they get baked!

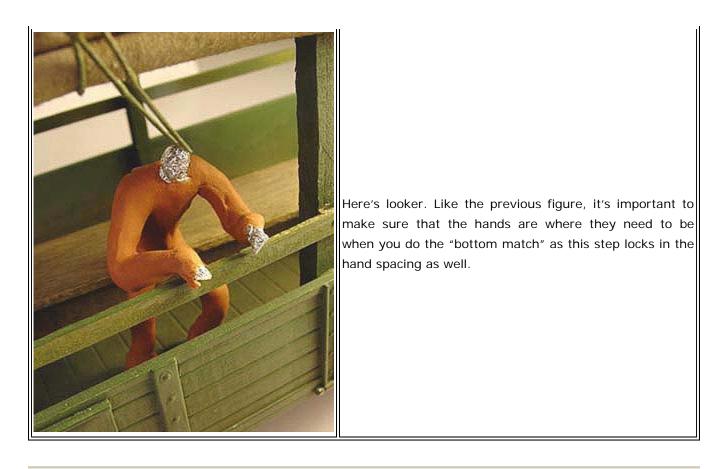


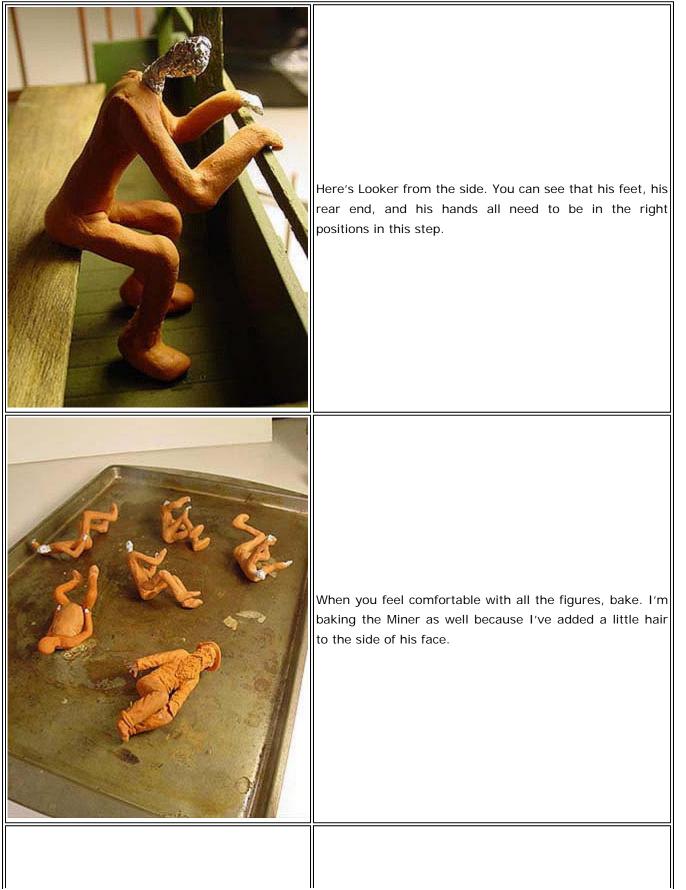


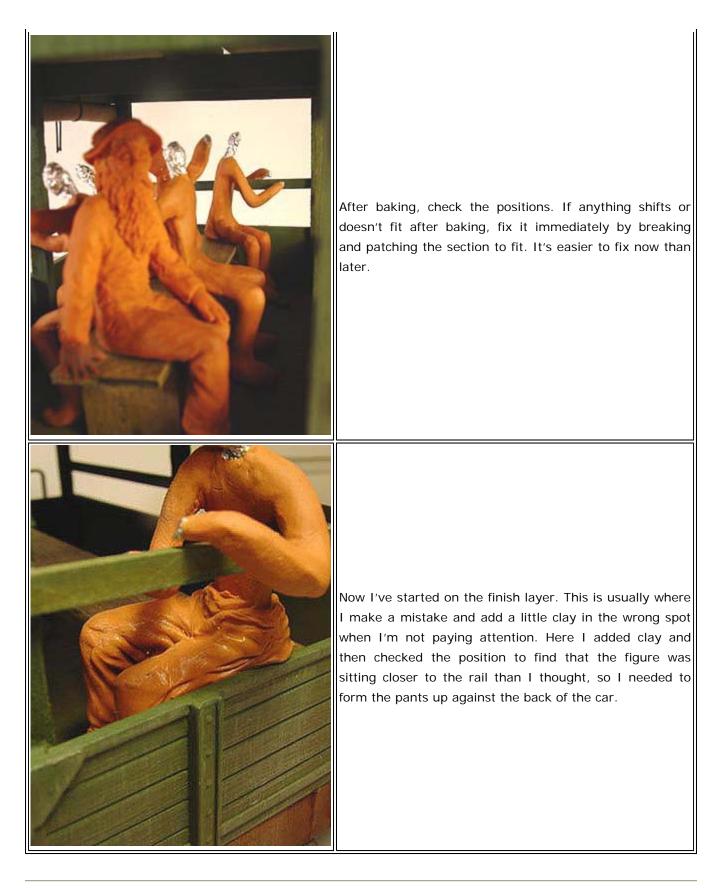


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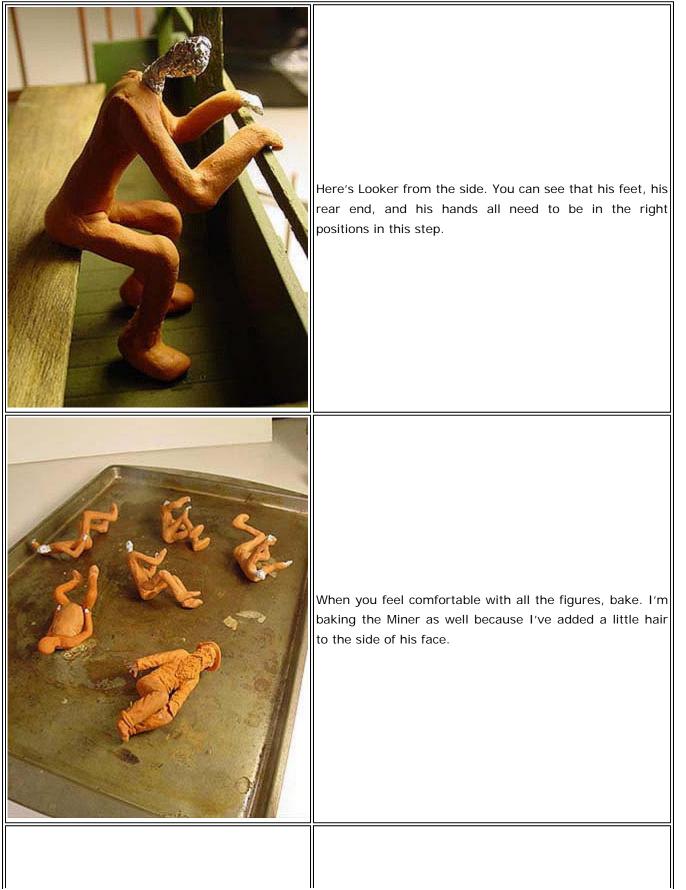


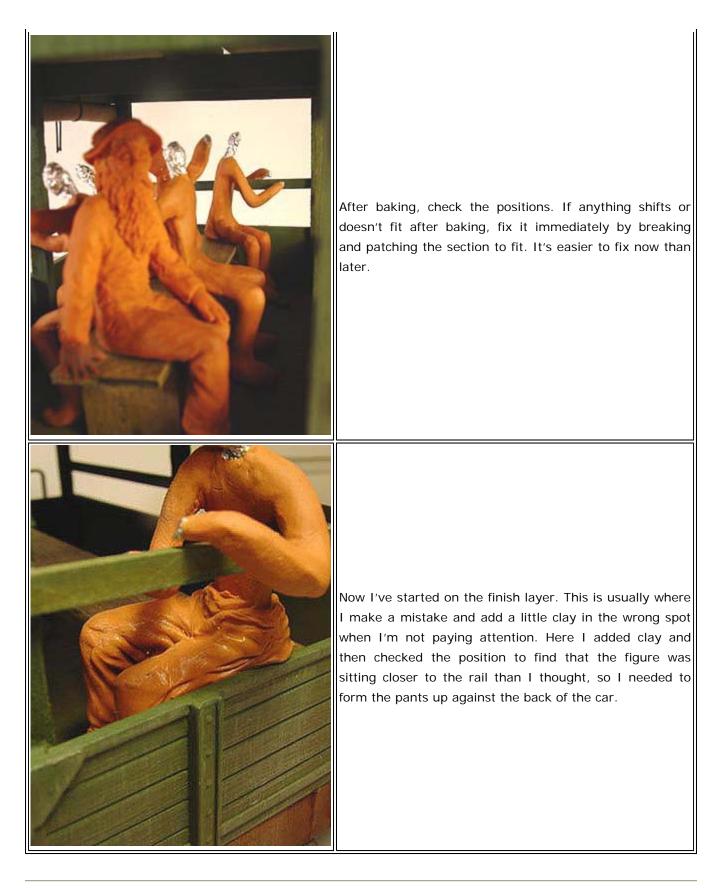






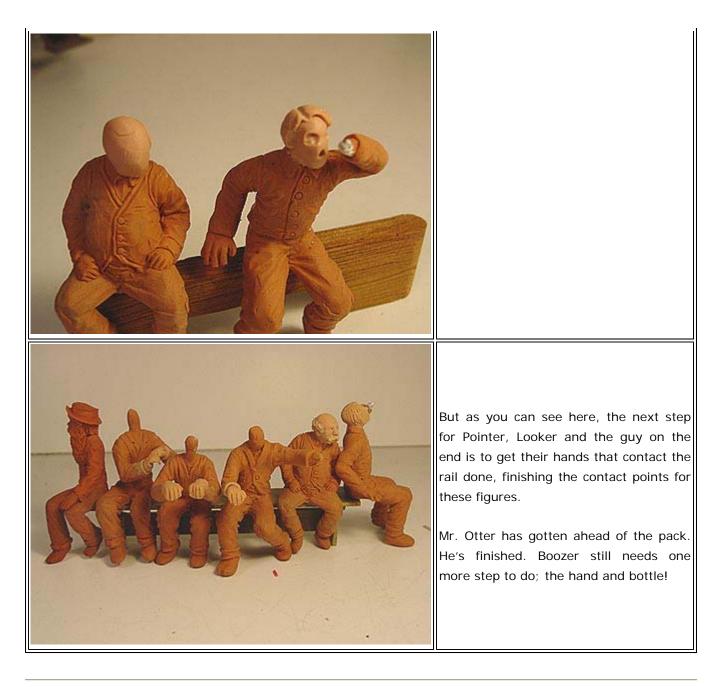
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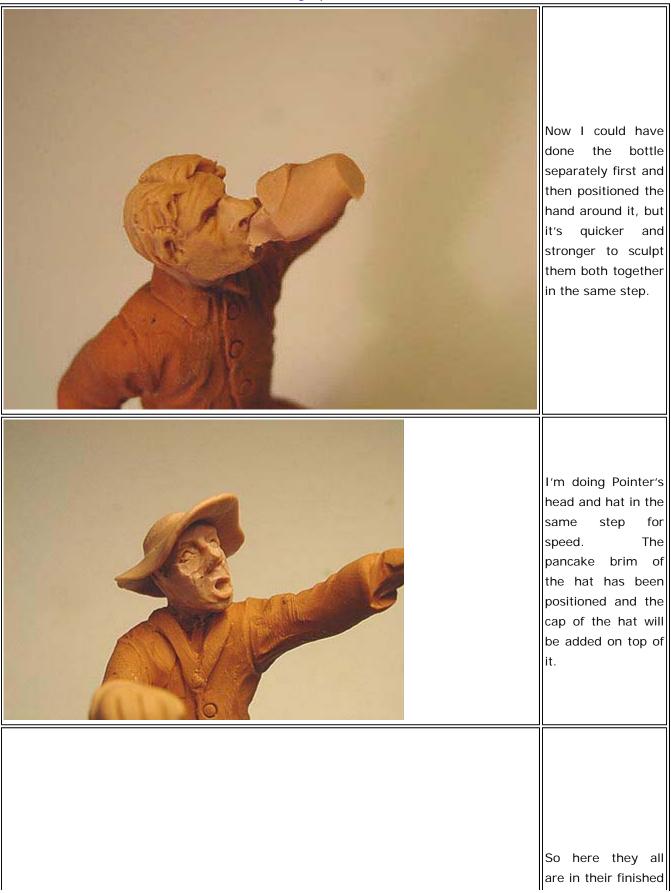
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Here are the boys, brushed out and ready to bake. The sculpting is done from the waist down now. Now I do the shirt step, or upper torso. Once that's done, it's time to move on to the next step. Because Mr. Otter and Boozer don't have any more connecting points, they can get their hands and heads done now.

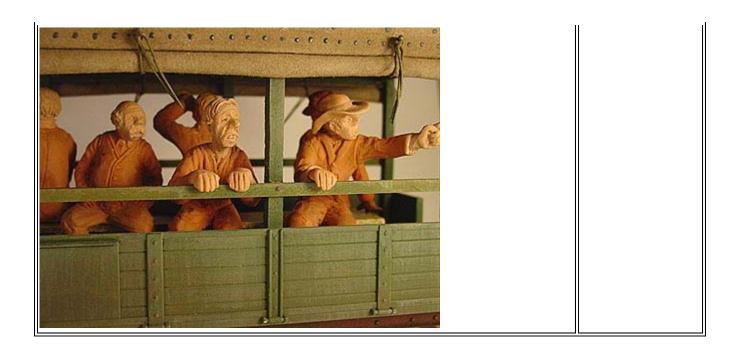


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sculptural form. Six of Rogue County's finest.
Now to check final positions and make sure everyone fits in their place one last time before painting. Plenty of space on this side of the car.
And things look good here on this side as well. You can see where these three characters' gazes flow in a single direction. What do they see?



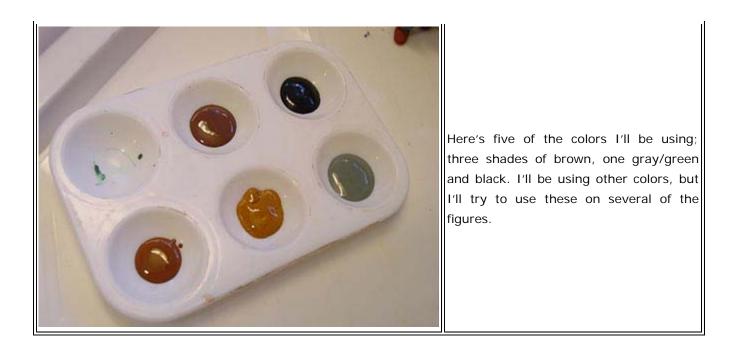
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PAINTING



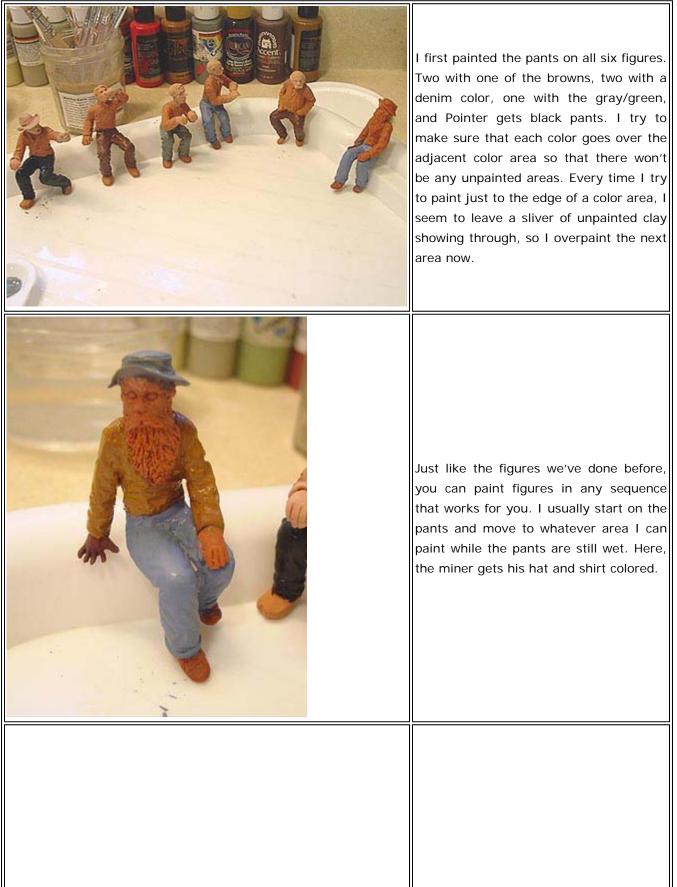
OK, let's get these guys finished and on board for the trip! As we've been over this before, I'll skim through and just mention a few things. Here's my basic figure painting set-up.

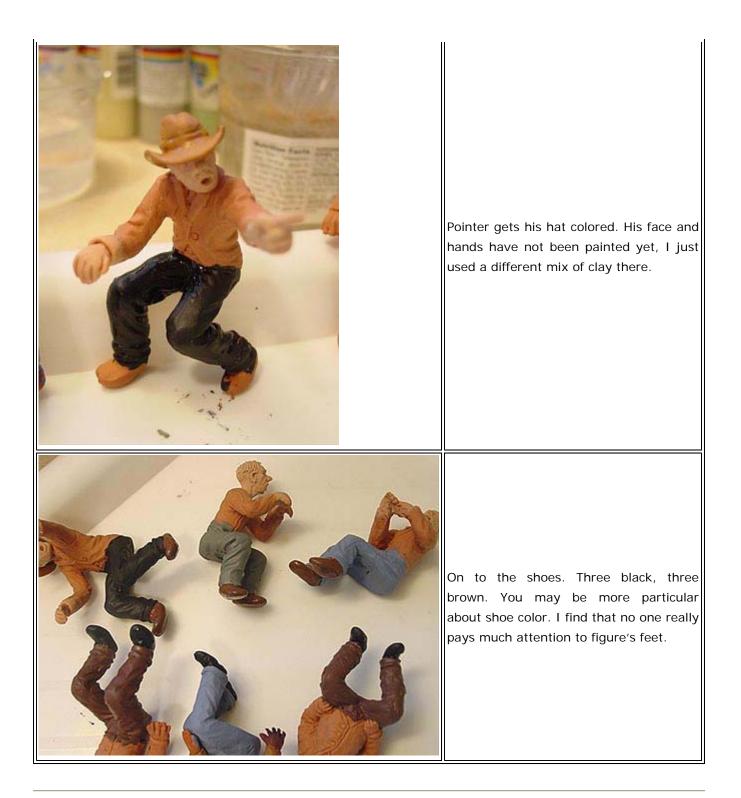
- A Painting Surface. Here, it's a plastic tray.
- Paints. A selection of craft acrylics are my weapons of choice.
- A Paint tray. To set out several of the most used colors.
- Brushes. A selection of medium to fine brushes. These clear handled ones are from a cheap set, but still good for this use.
- Container of water. For washing brushes and thinning paints
- Damp cloth. For wiping up all the paint I spill on myself!



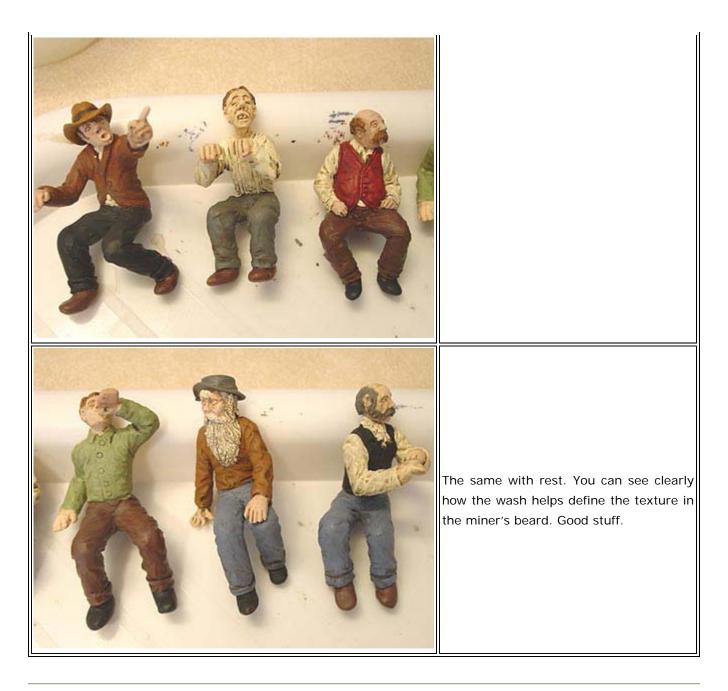
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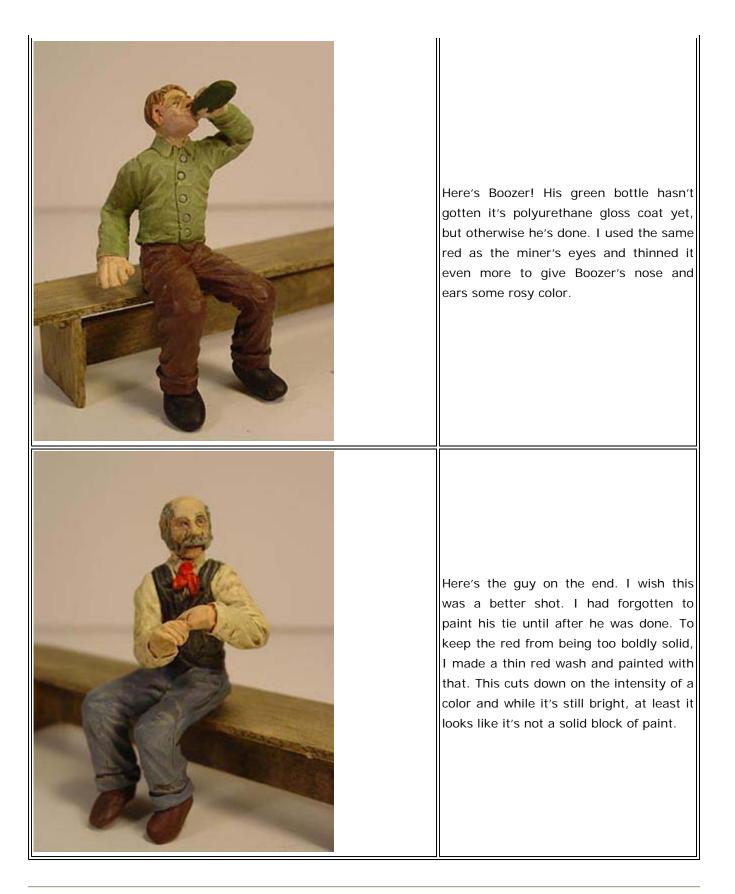


I didn't have a good flesh base color handy, so I used a couple of odd colors; Light Apricot (which is too yellow) and Blush (which is too pink). But we don't want everyone to have the same color skin anyway, so I'll mix and match these paints on each of the figures to create some color variety.
Here are the boys with most of their basic colors on. A bit too glaring for me!
Here's Pointer, Looker and Mr.Otter with a quick dark wash. Much more dimension.

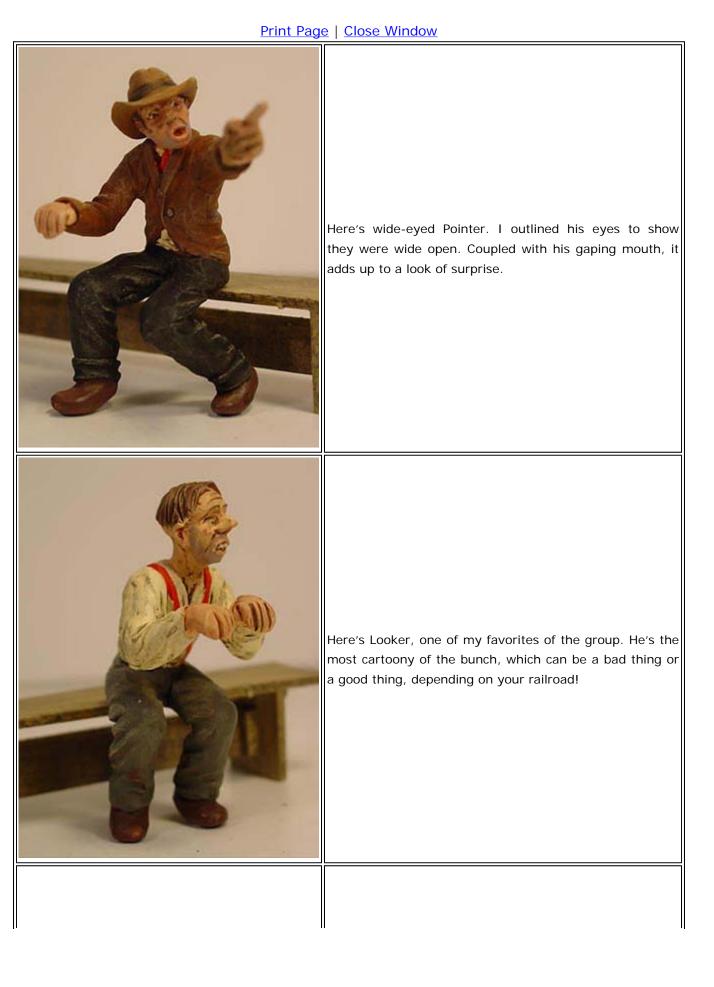


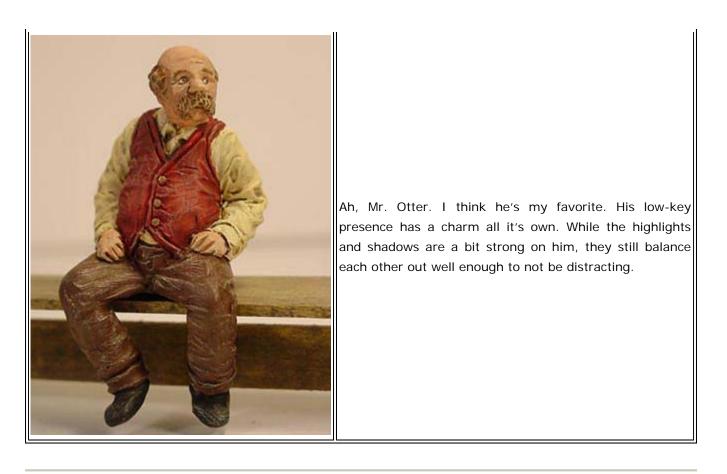
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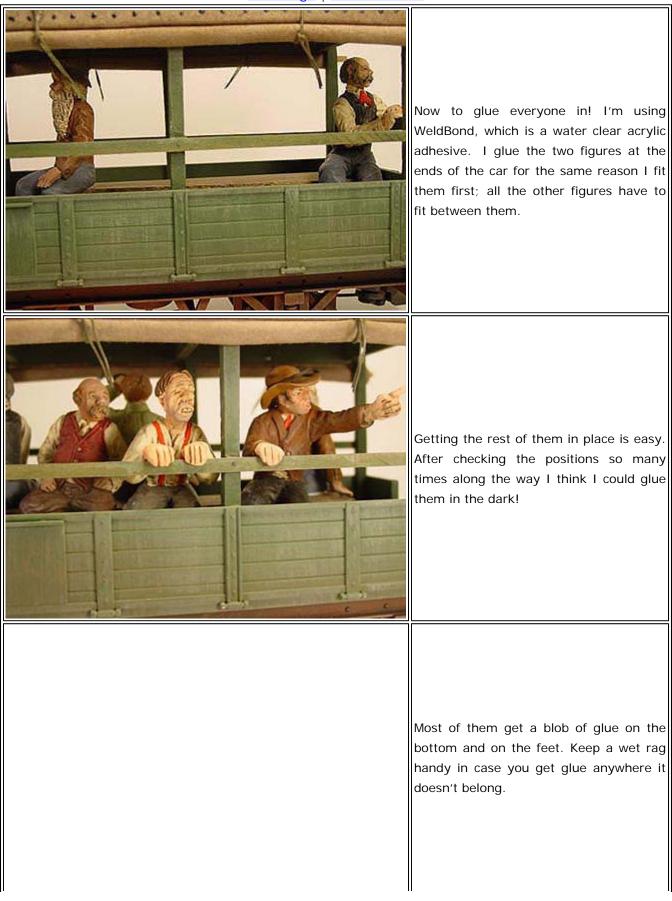
Print Page | Close Window Here's the whole group after a light drybrush with an ivory color. Normally I don't use anything as bright as ivory, but I had it handy. The lighter the highlight, the less of it you need to use. Let's take a last look at the boys before they board the car for the final run. Our miner came out OK. Notice the highlight and shadow colors. Neither one is too overwhelming. That's the trick with both; subtlety. I made his eyes weary by lining them with red, also good for vampires!

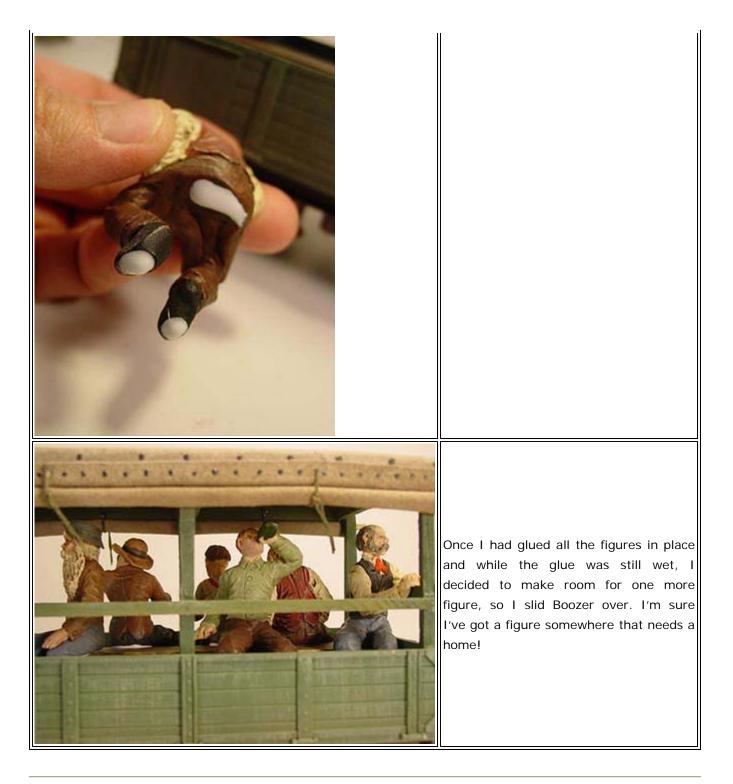


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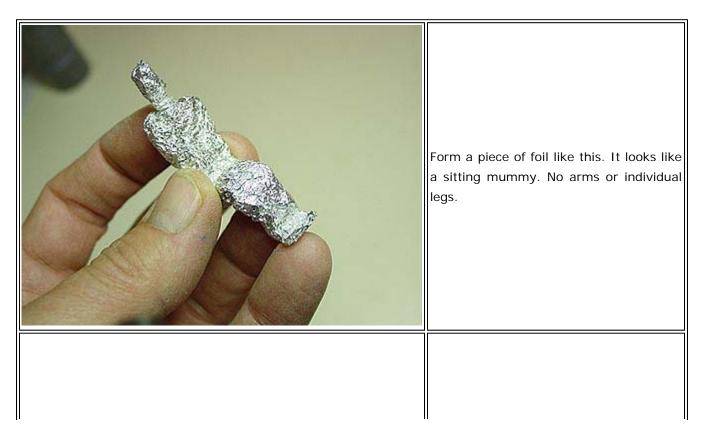


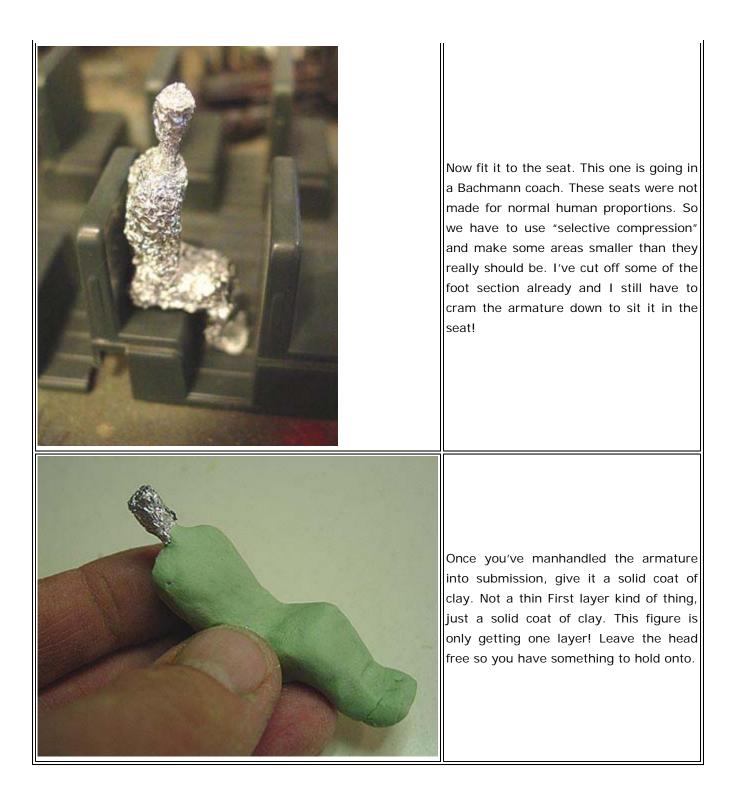


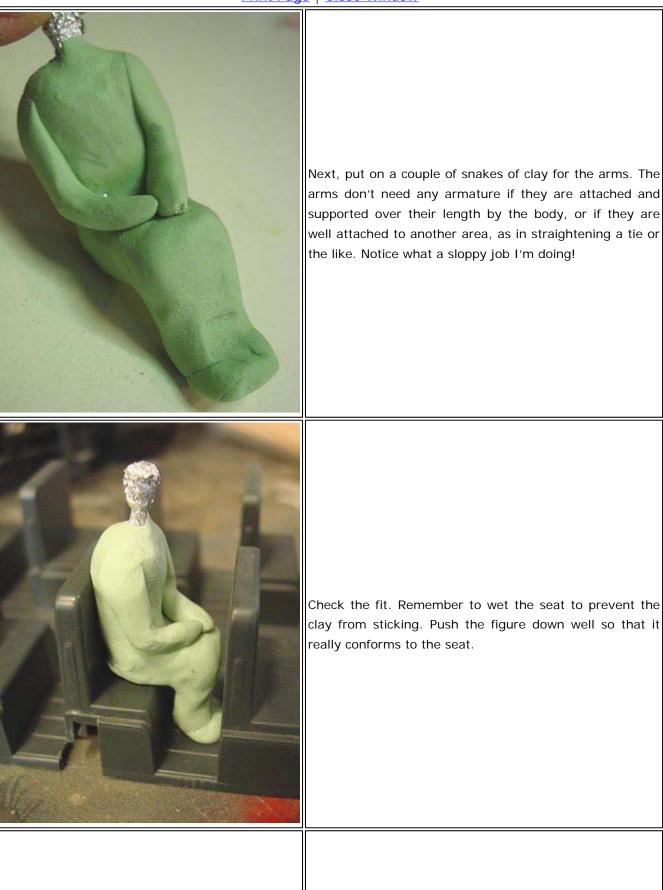
You can see how much glue I use by the blob hanging under this guys hand! That's why I use water clear glue.

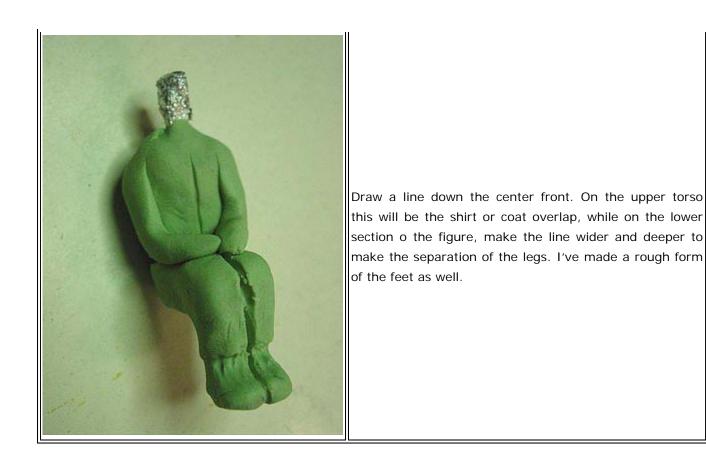
The Really Quick "Filler" Figure

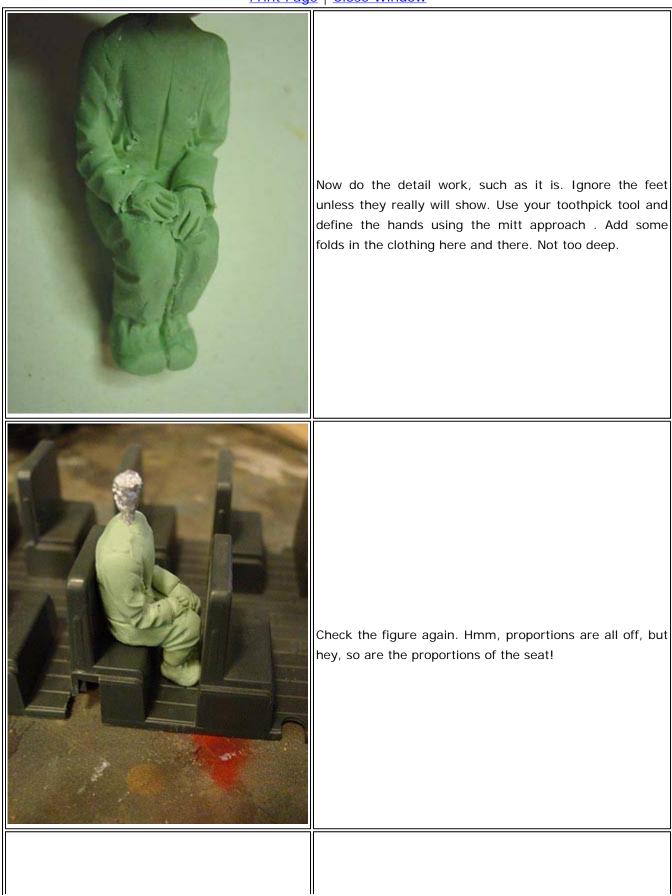
Here's a way to do "rough" sitting figures. Now I wouldn't normally even show you anything this quick and dirty, except for the fact that some of you probably have a bunch of coaches you want to fill with figures. You probably also don't want to spend the rest of your life filling them, either! Here's a figure that on its own looks pretty weak, but in a coach with twenty others might look just fine...behind some dusty plastic windows. If all you're looking for is bodies to fill the cars, try a few of these.





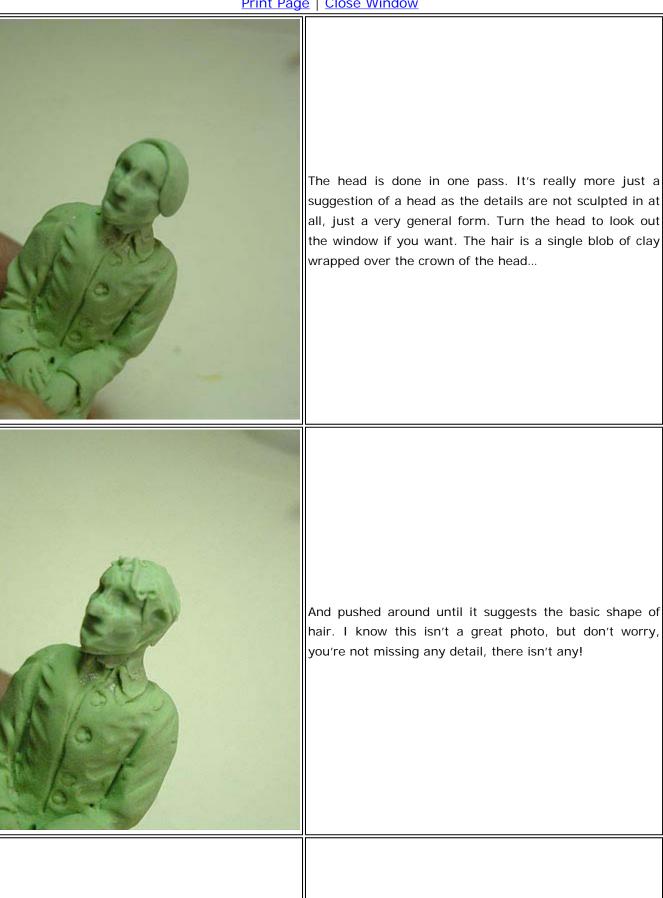


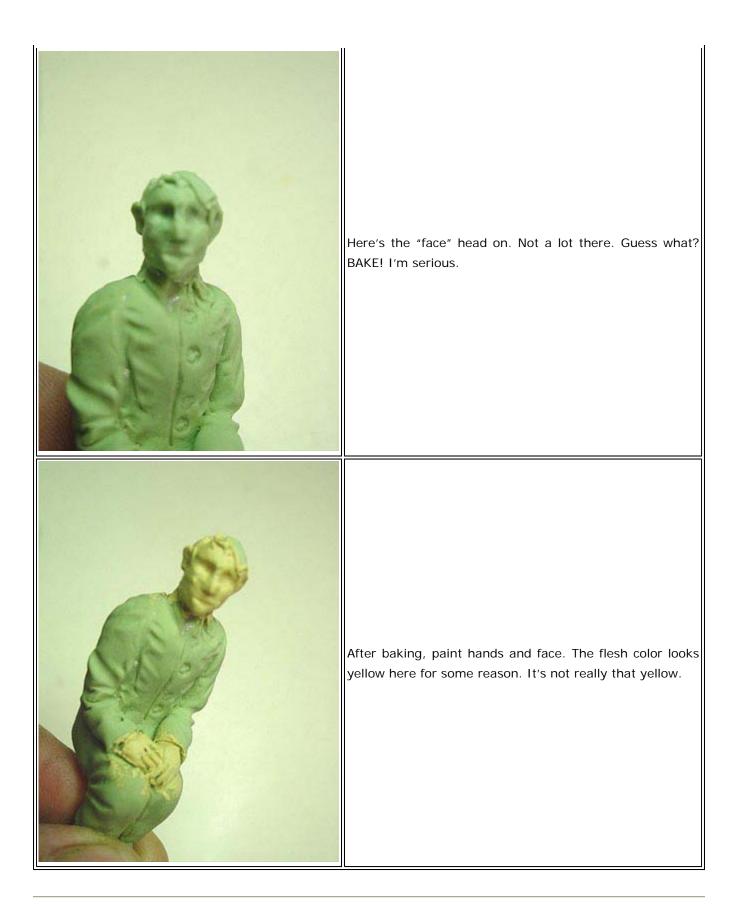






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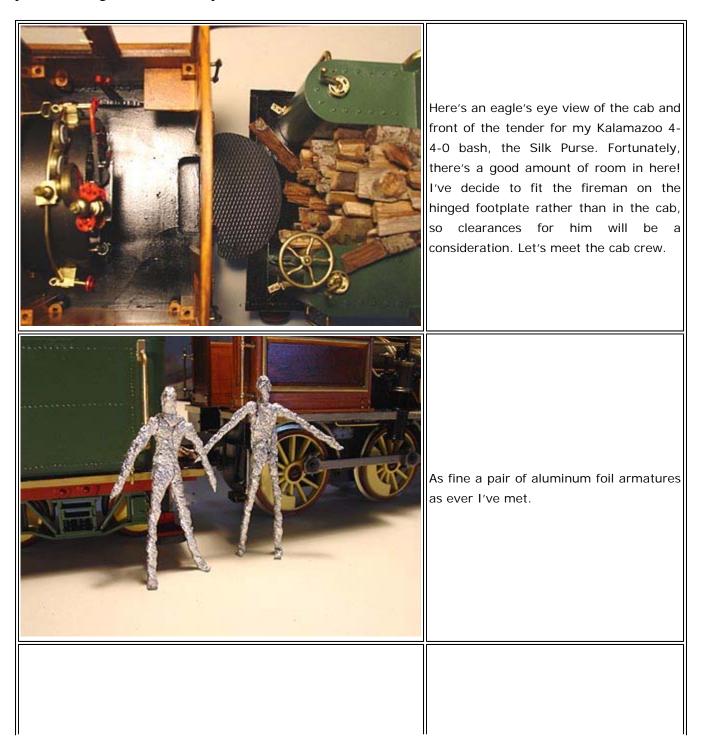


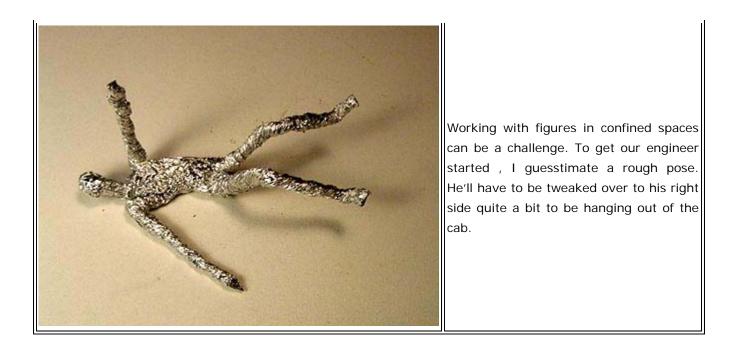


Brush on some quick highlights. Glue in seat. That's it. It's quick, ugly but quick. Using this method, I think I could fill a Bachmann coach (22 seats) in the same amount of time I took to do the six figures in the first section, possibly less time I. I also suspect doing a lot of these figures all at once would be easier than just doing one at a time. Of course there's any number of versions of this figure as you add detail . But this is about the absolute minimum I would try and get away with. I'm almost sorry I showed you this!

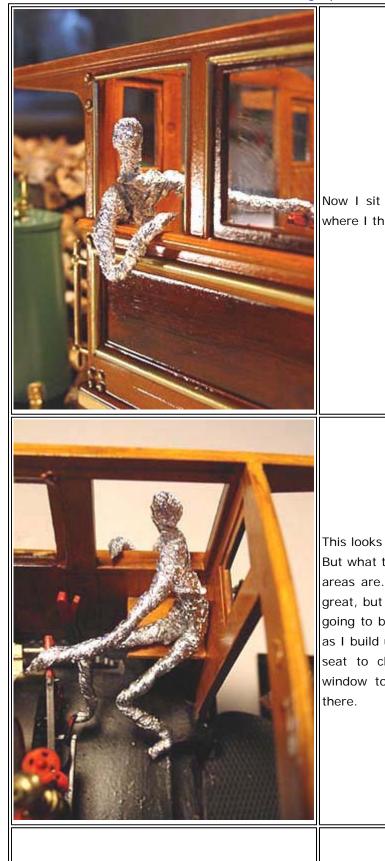
ENGINEER AND FIREMAN

Finally! Here's where we get to put it all together! Our engineer will be a fitted, sitting figure with elbow over the window sill and left hand on the throttle. Our fireman will be a standing figure in midaction pose of grabbing a piece of wood for the fire. As with the sitting figures, we need to look at the place these figures will wind up.





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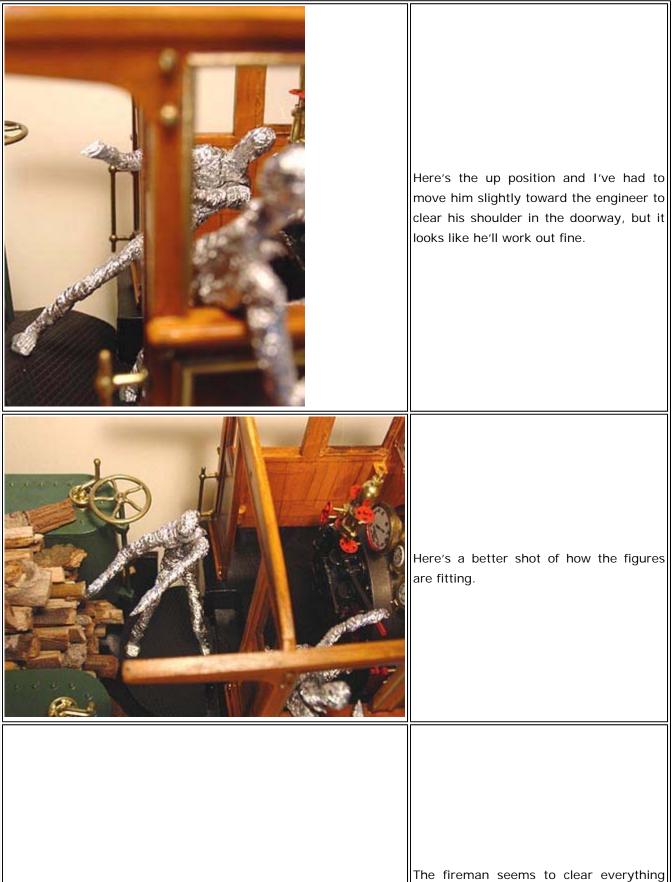
Now I sit him in the engineer's seat and adjust him to where I think he needs to be.

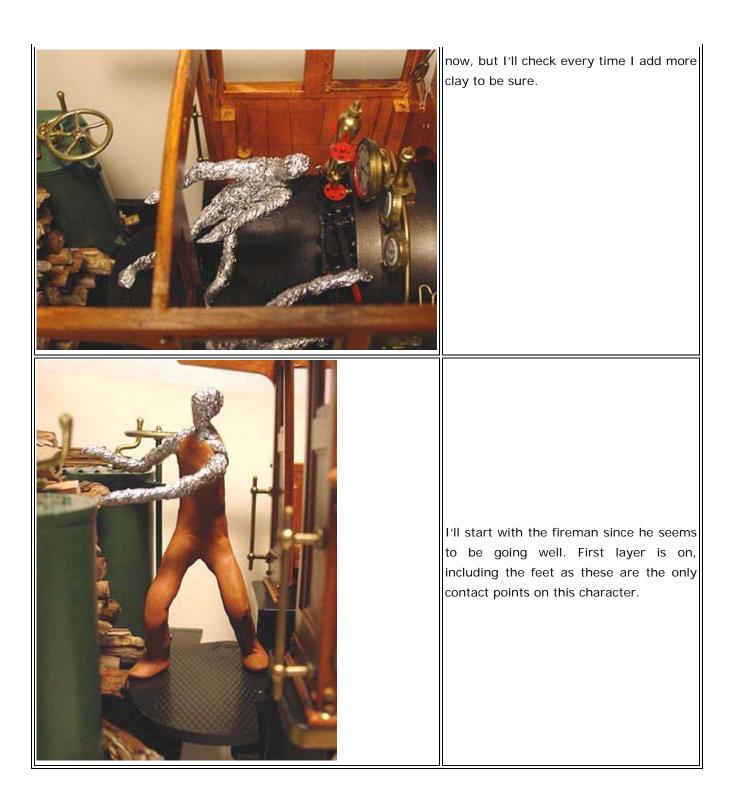
This looks pretty good. It's so easy when they're just foil! But what this does is tell me where my potential problem areas are. It's extremely easy to find a pose that looks great, but won't fit in and out of the cab! On this guy it's going to be that arm out of the window. He'll grow a bit as I build up the clay and by the time I lift him out of his seat to clear his elbow, his head will be hitting the window top. I'll have to cross that bridge when I get there.



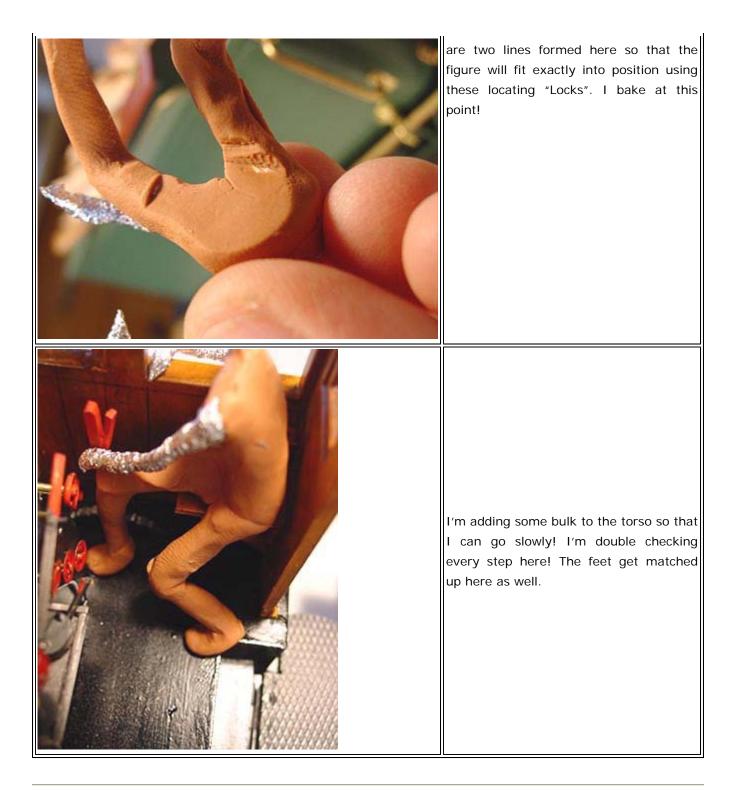
On to the fireman. Standing solidly on the plate, he's turning at the waist, grabbing a piece of wood. I've held down the armature with Blue Tack, or Fun tack (whatever it's called) so that I can check the clearances when the foot plate is folded forward to hook the engine and tender together...



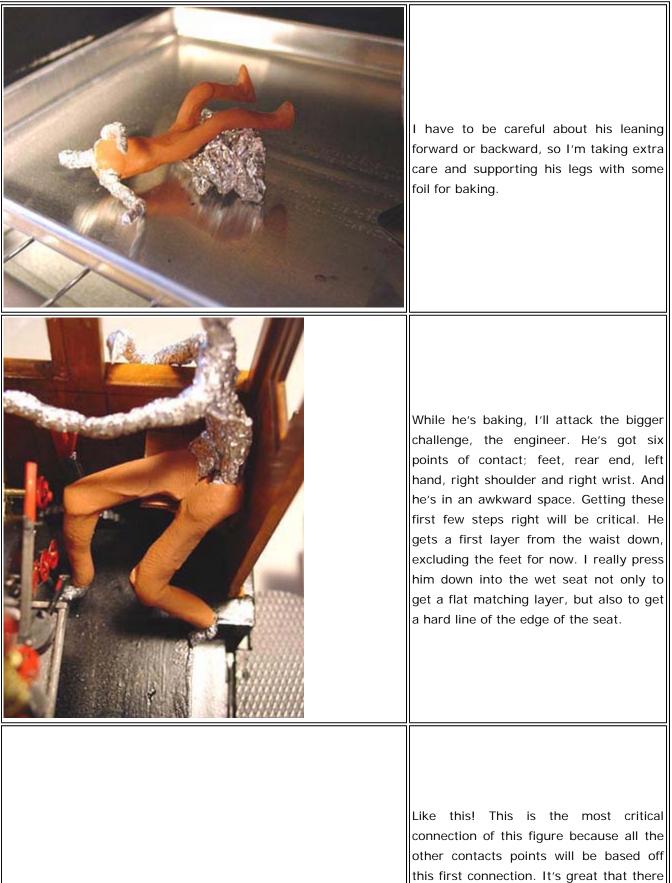




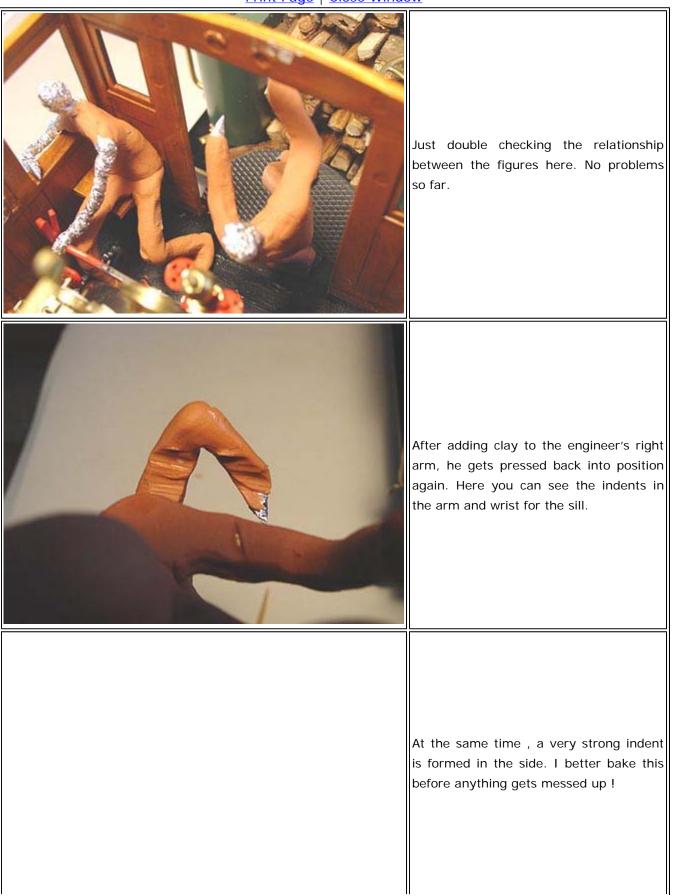
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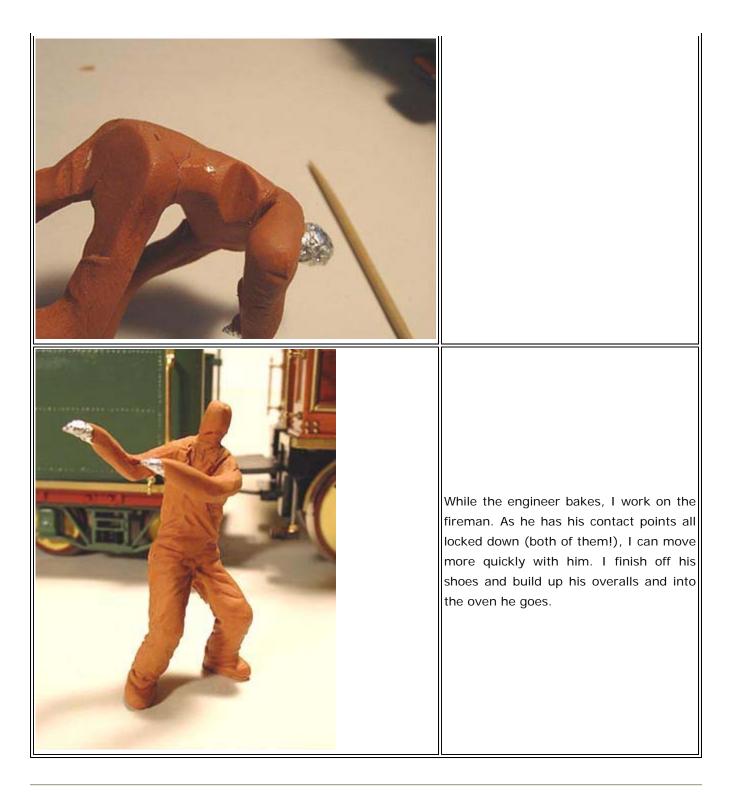


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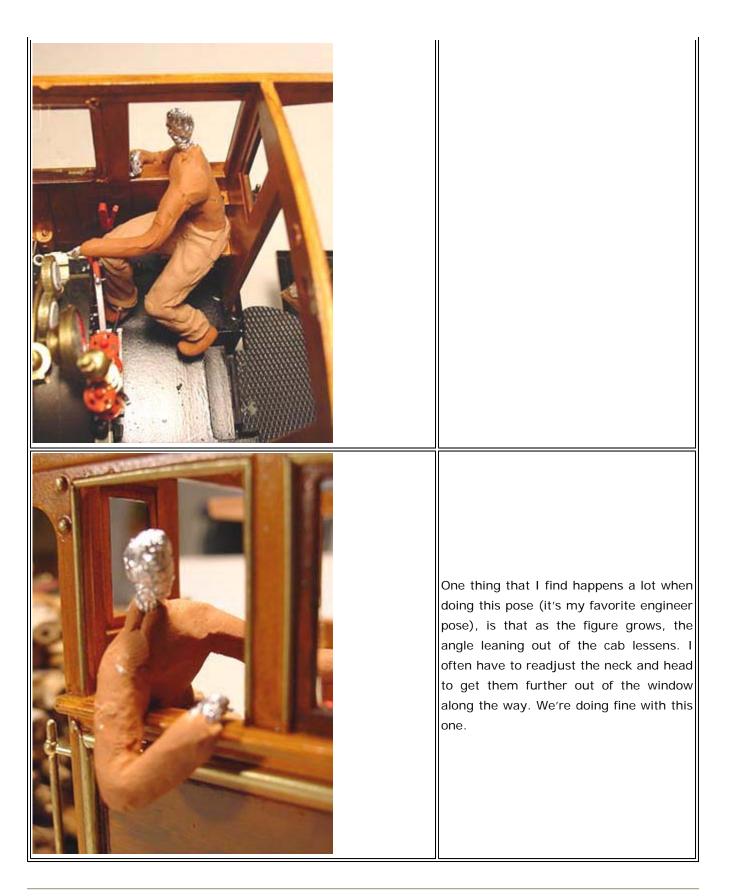




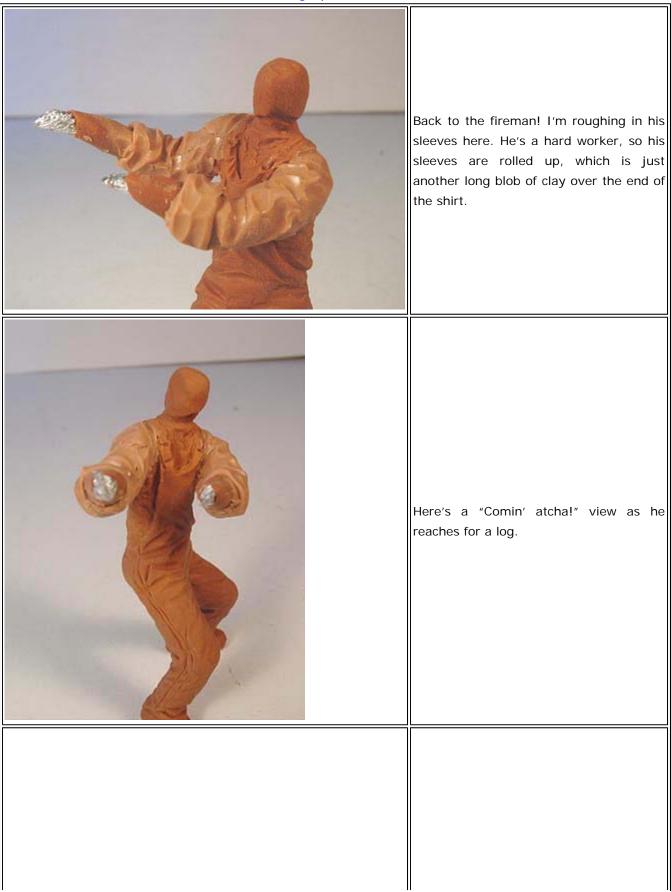


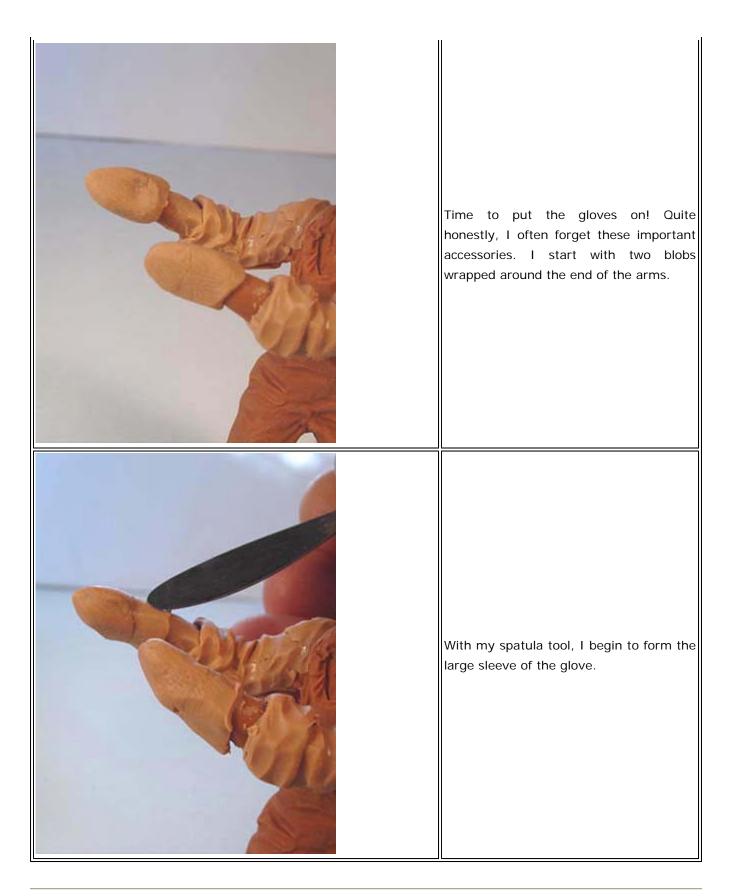
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	Back to the engineer. I'm ready to start the finish layer on him and I go ahead just like the first sitting figure, building up the legs only in the non-contact areas.
	You can see here that the original contact area with the seat is left as is.
	After baking, another check. It seems OK, but that left foot seems to be lifting for some reason. I'll keep my eye on it.



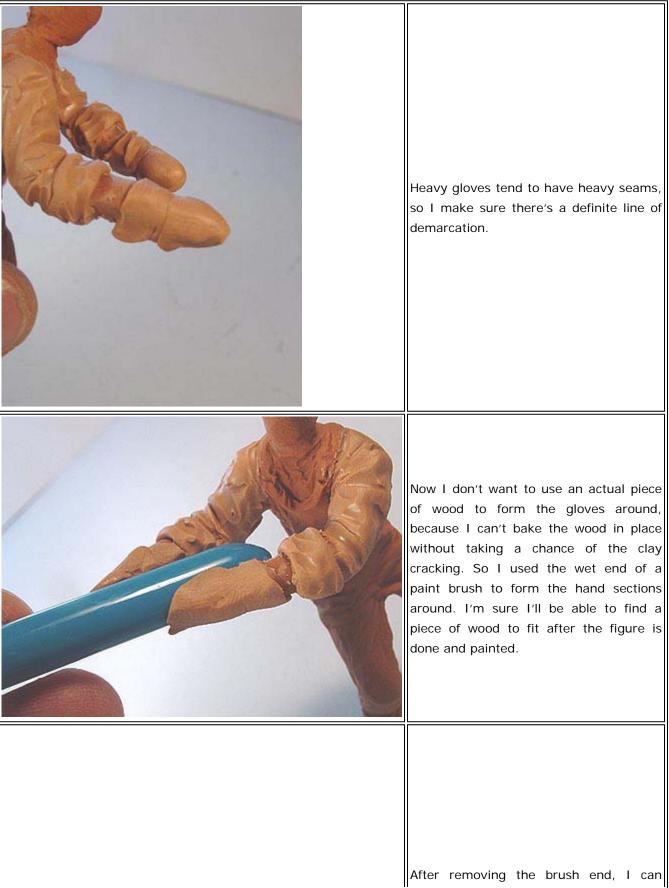
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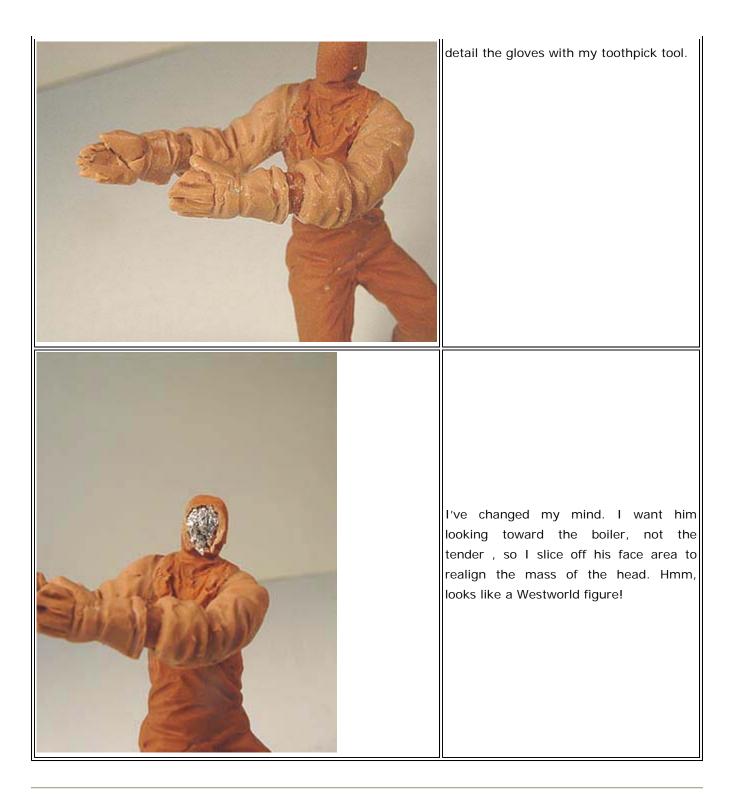




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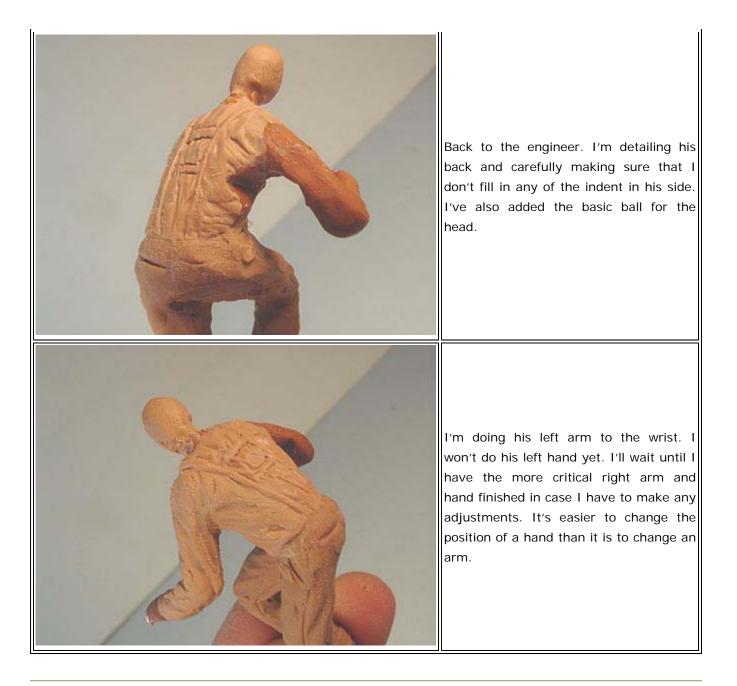




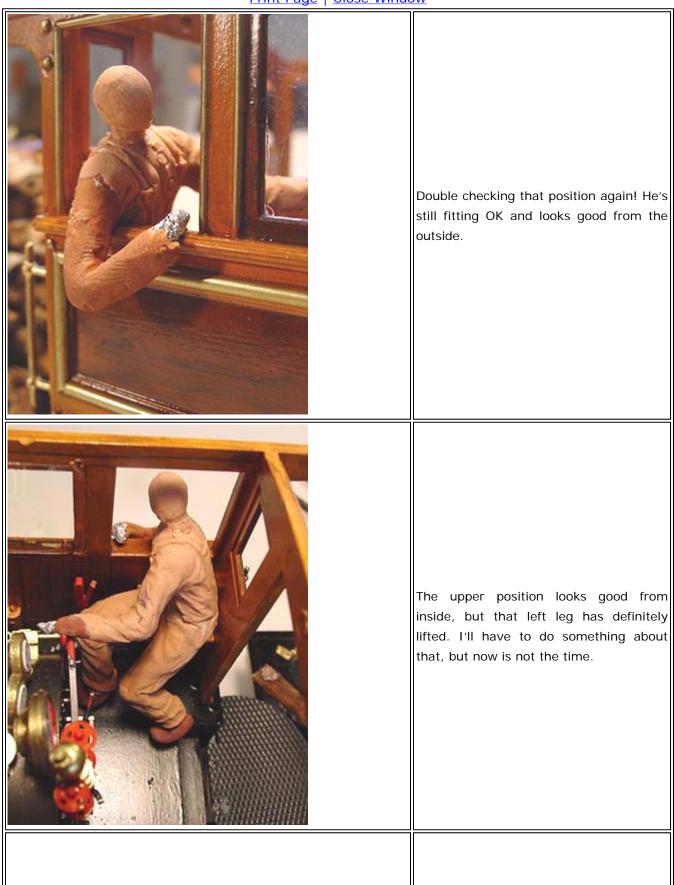


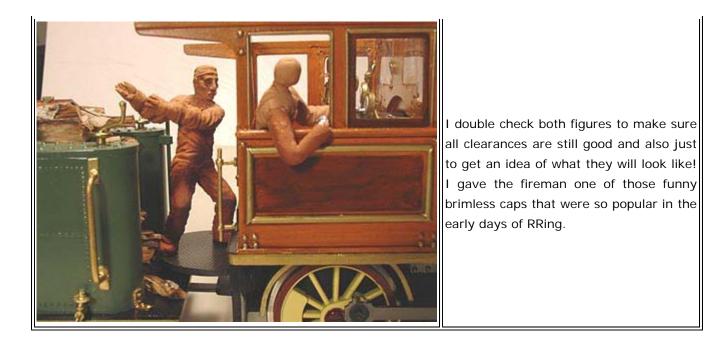
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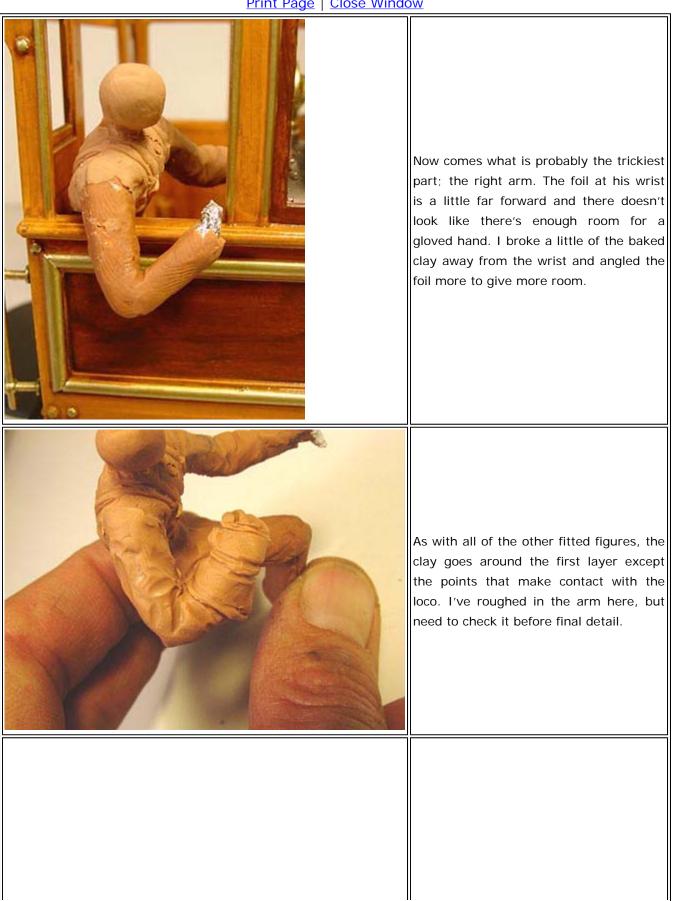


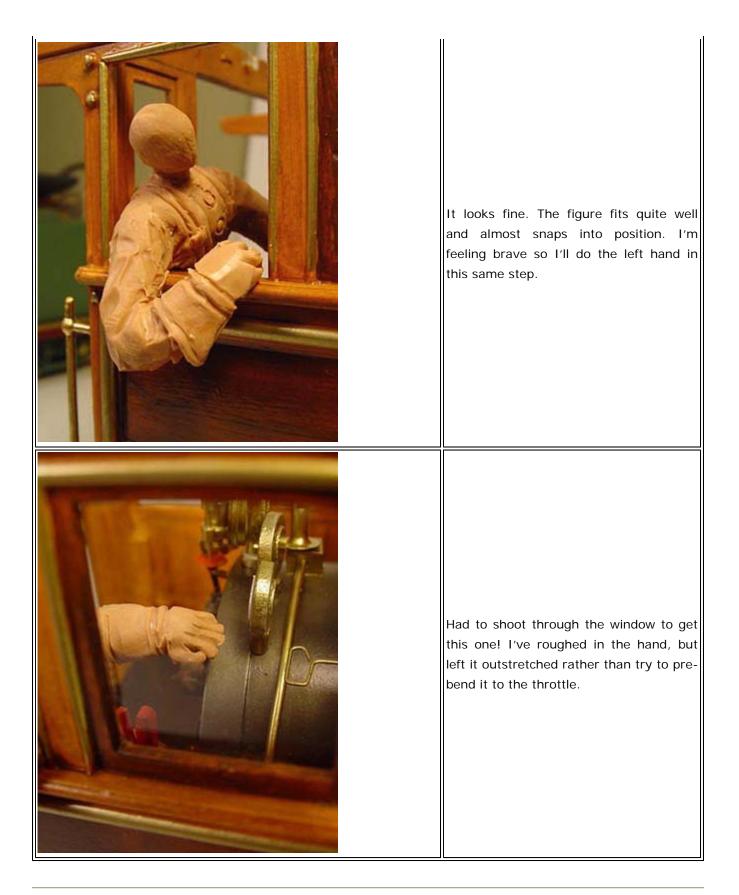
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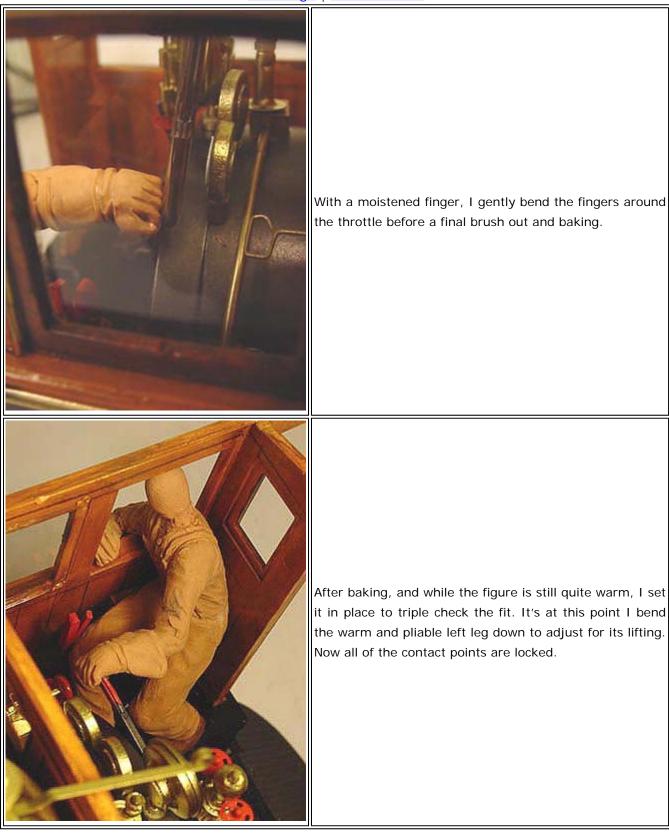


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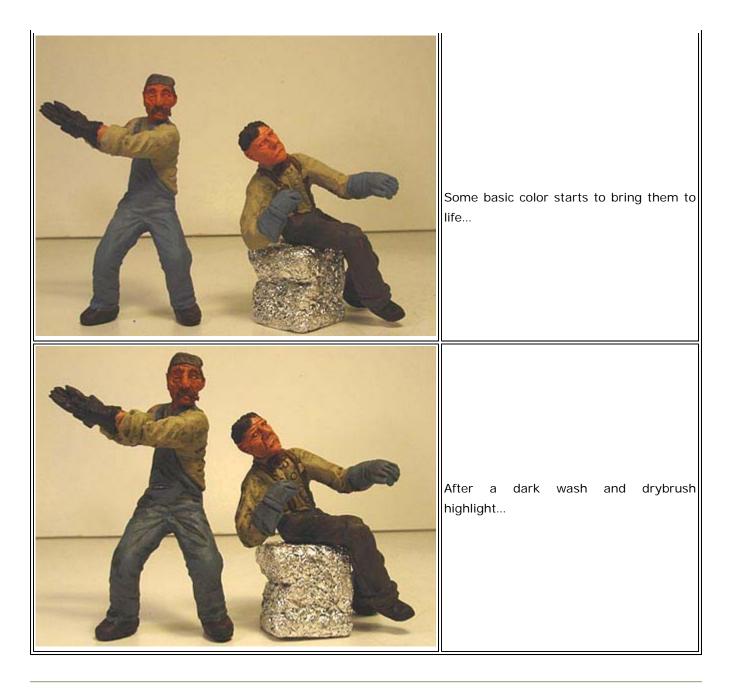




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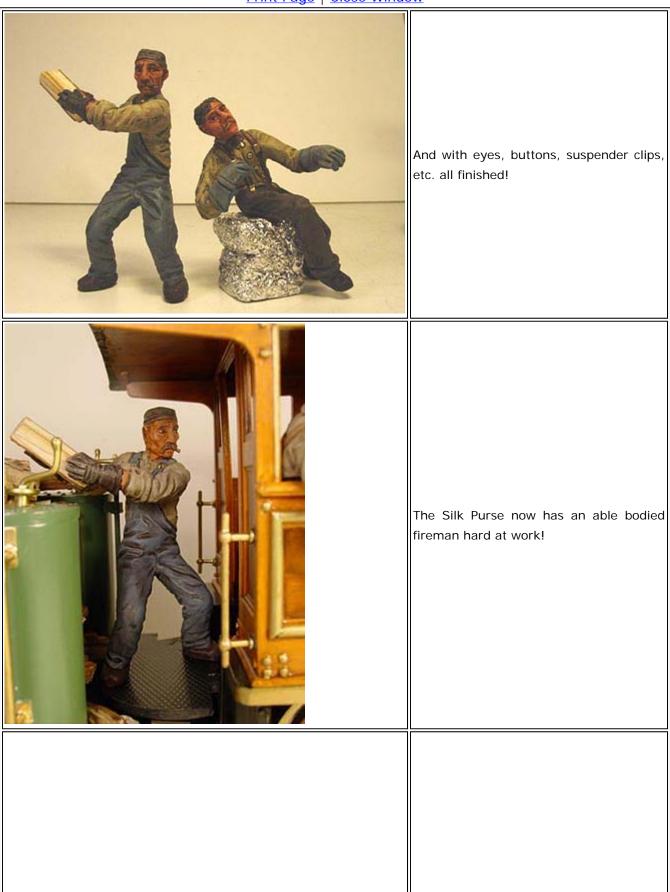


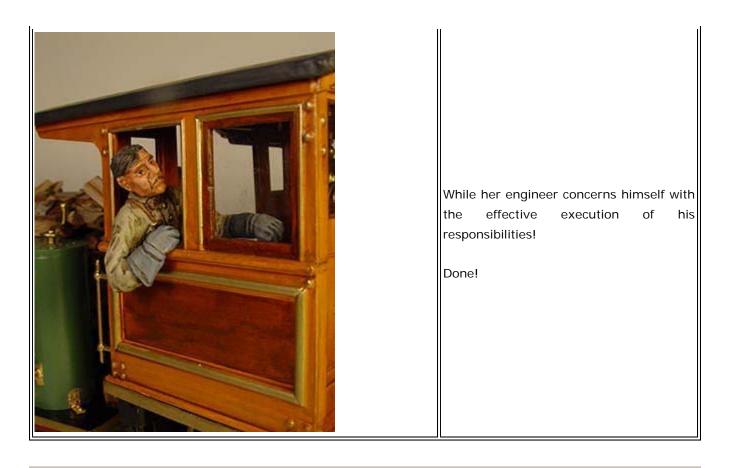




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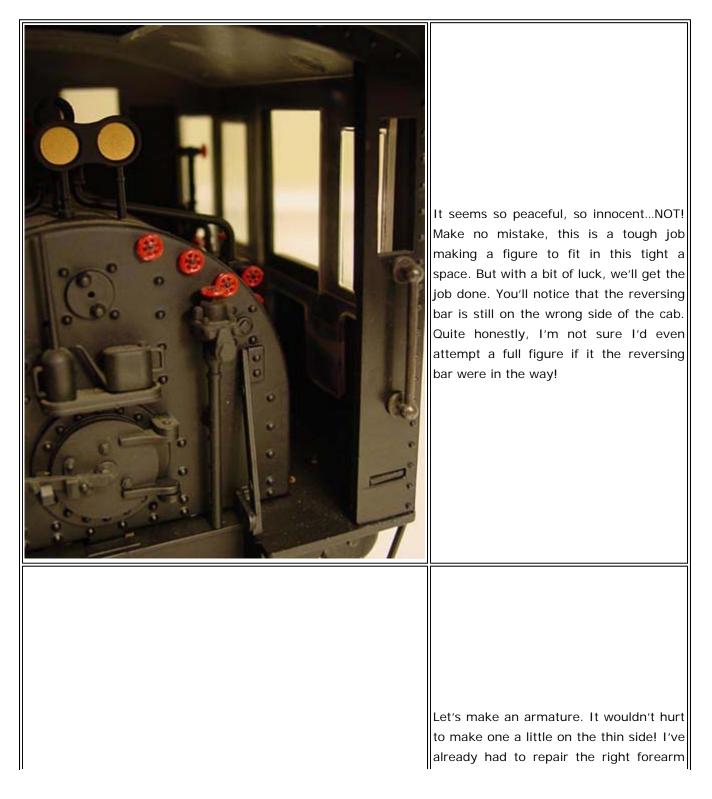
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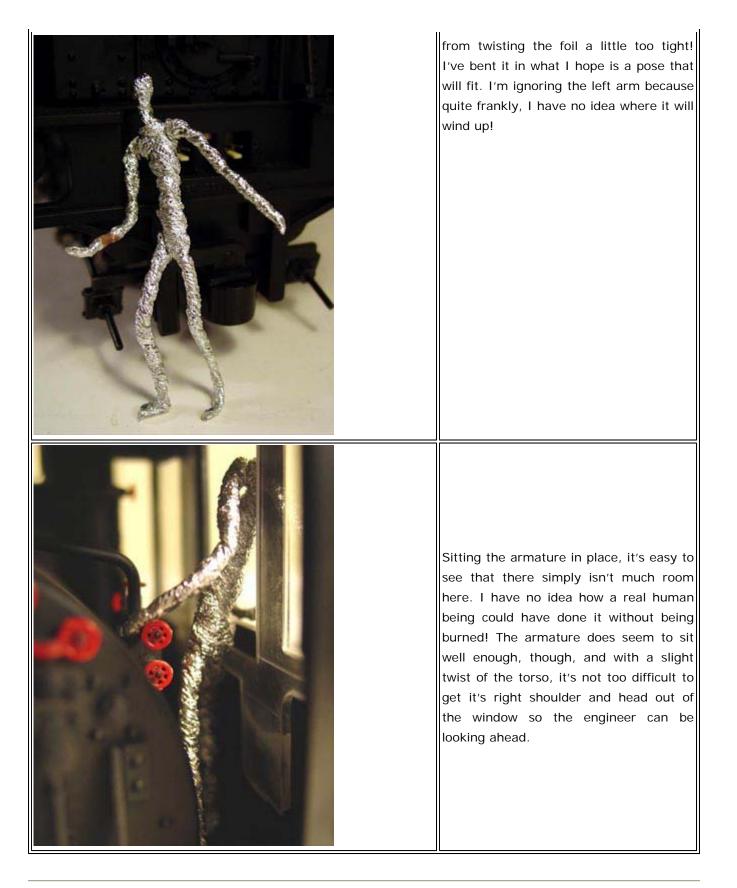




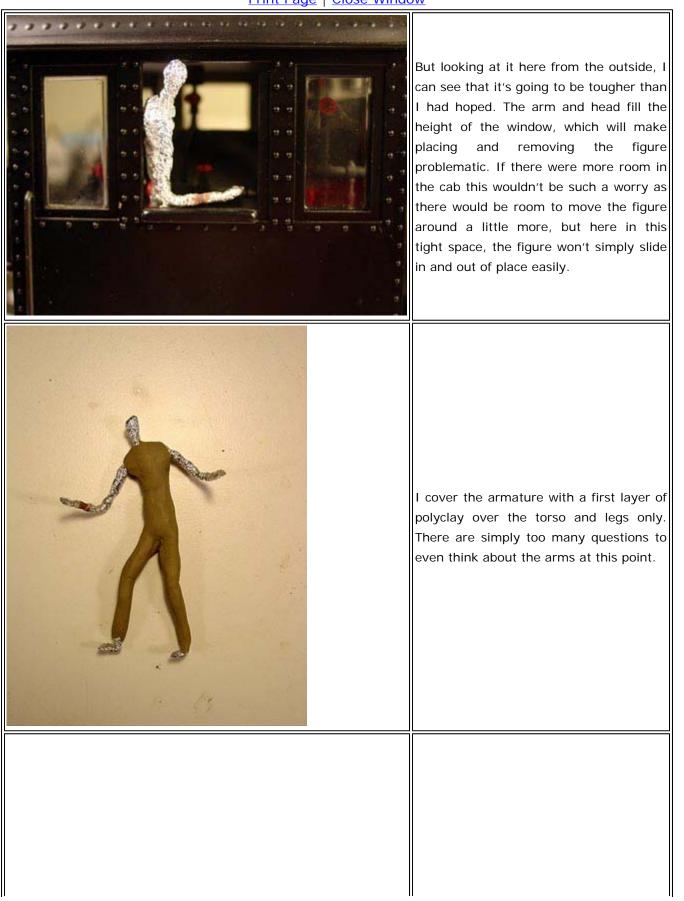
PUSHING THE ENVELOPE!

Fortified by our success with the Silk Purse crew, let's throw caution to the wind, pull out our Bachmann Annie ten-wheeler, and challenge fate! Here's the area we have to put an engineer in the cab of an Annie:



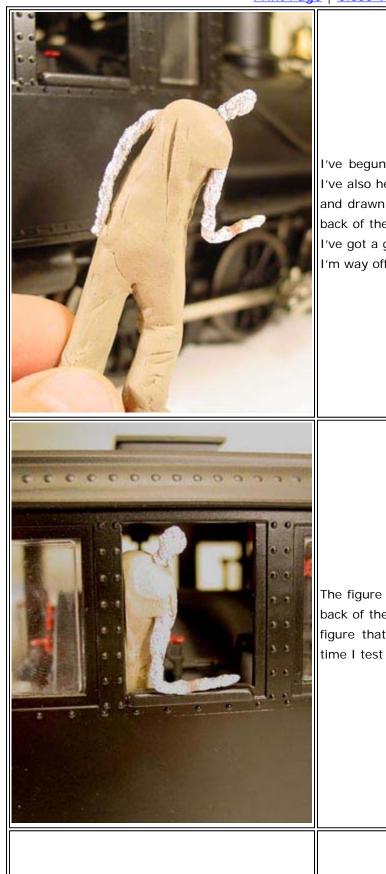


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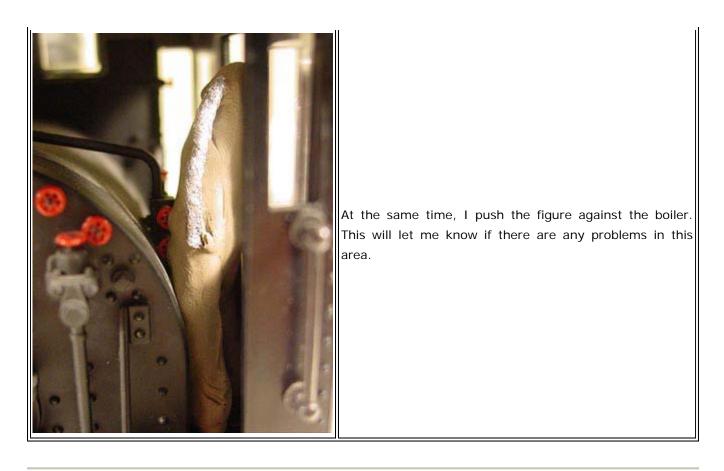


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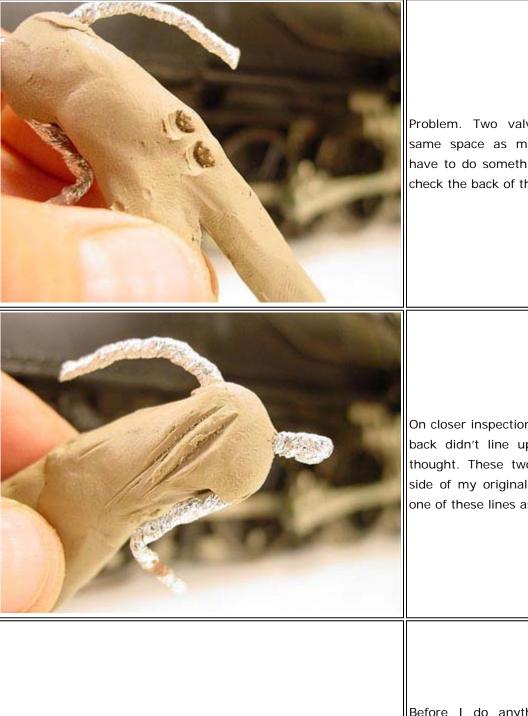


I've begun to build up the mass on the torso and legs. I've also held the figure up against the outside of the cab and drawn a line where I'd like the figure to contact the back of the window. I'm doing this to help me make sure I've got a good sense of the space. This line will tell me if I'm way off base when I test fit.

The figure lines up well, so I press the figure against the back of the window to create an indent in the back of the figure that will be the "key" to lock the position every time I test fit the figure.



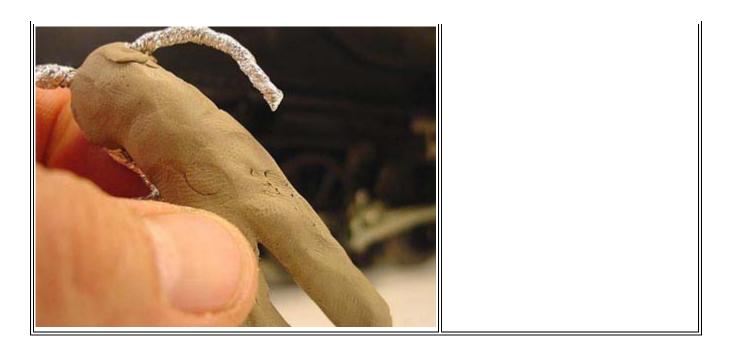




Problem. Two valve wheels want the same space as my engineer's hip. I'll have to do something about that after I check the back of the figure.

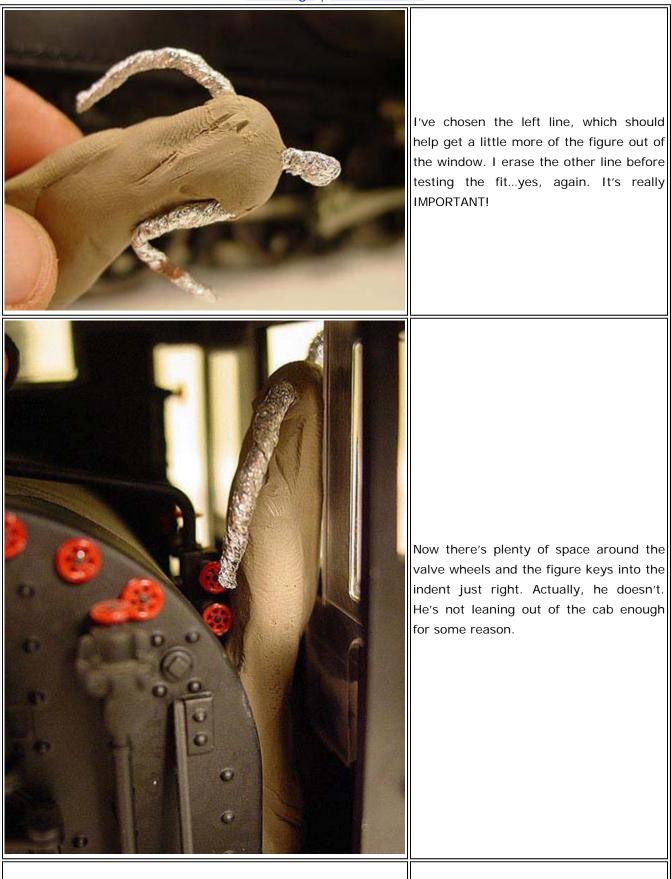
On closer inspection, it's evident that the back didn't line up quite as well as I thought. These two lines are on either side of my original. I can choose either one of these lines as the key now.

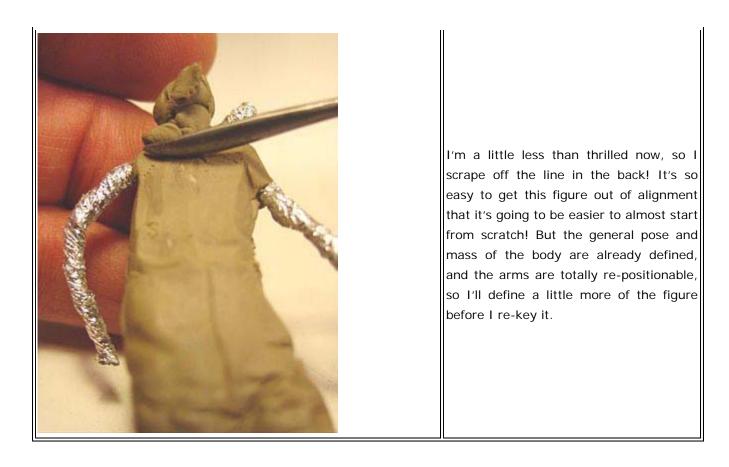
Before I do anything to the back, I remove the area of clay that was coming in contact with the valve wheels so that it doesn't affect my final fitting of the key in the back.

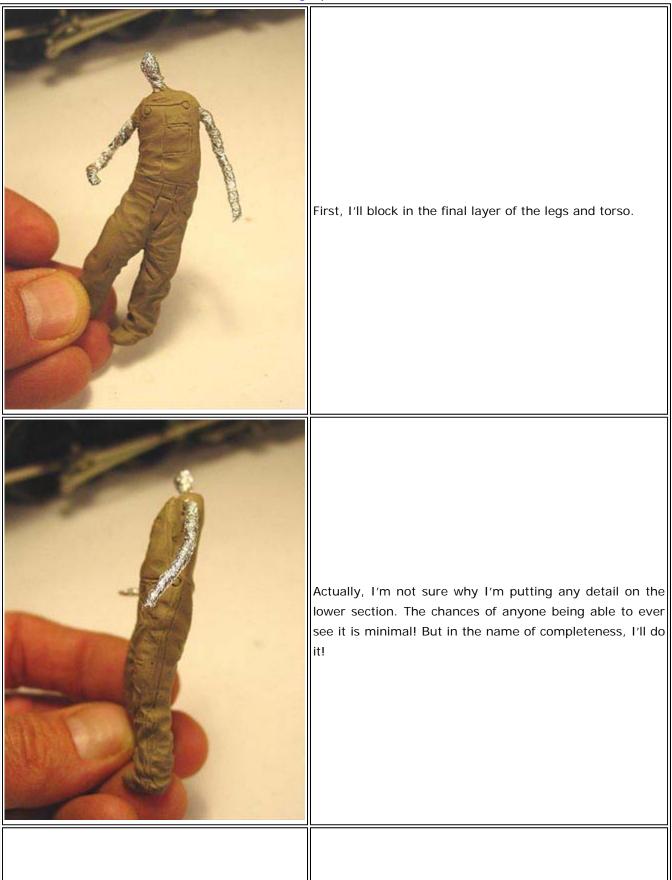


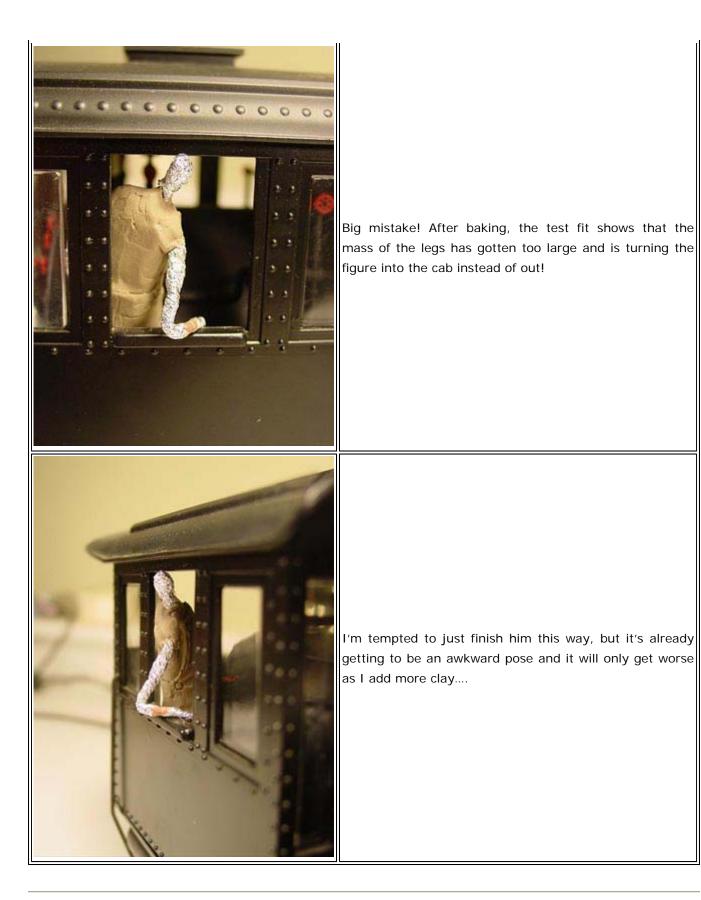
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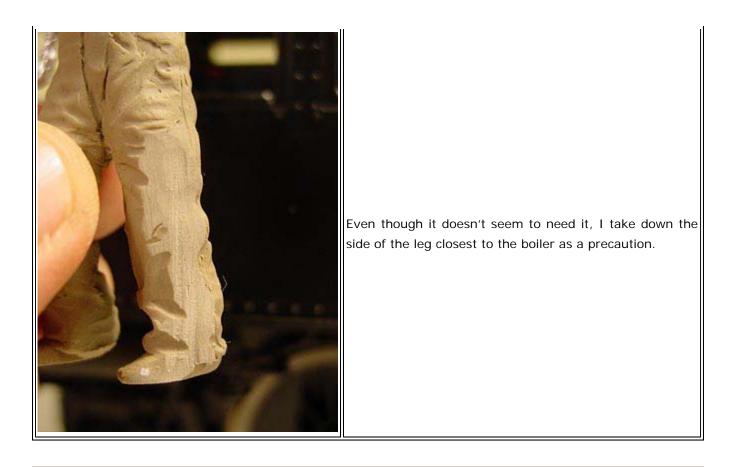


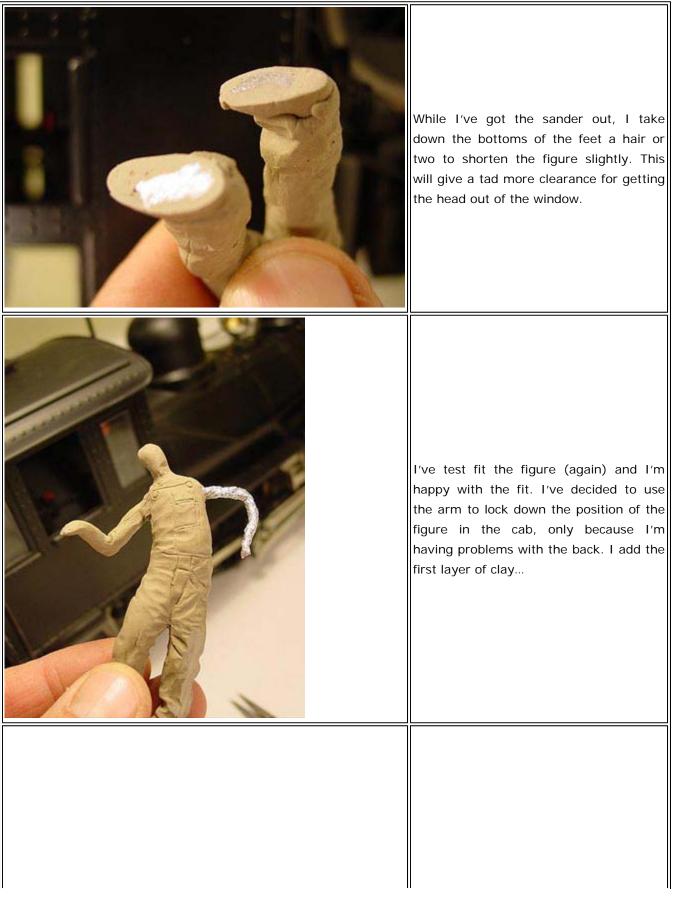


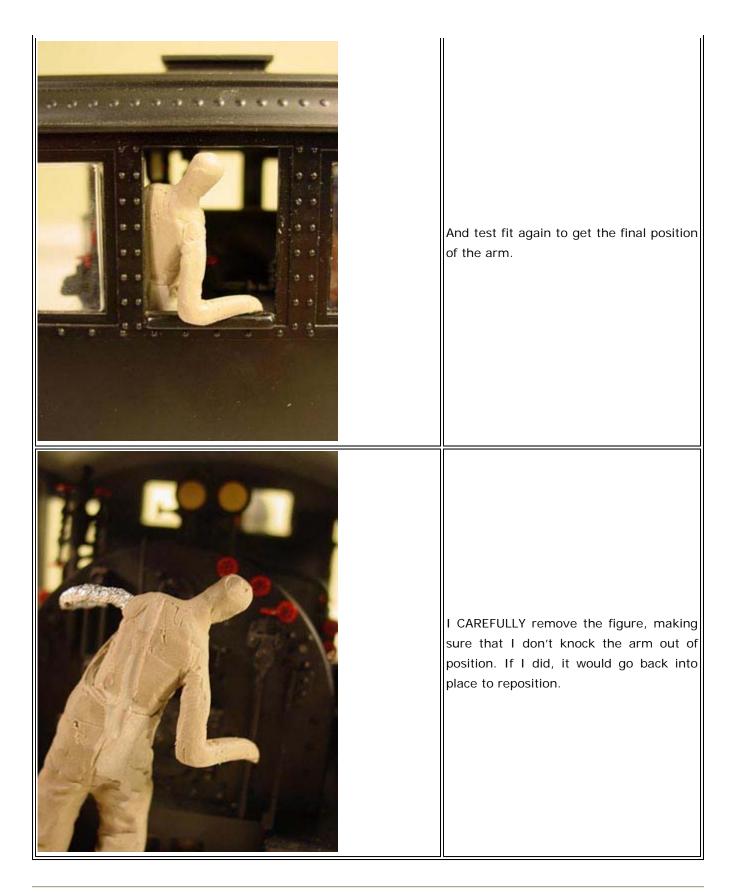


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So I mark the key line again (this time with pencil on the baked clay). Now I take my dremel with a sanding drum on it and carefully take down the areas where the clay has gotten too thick.

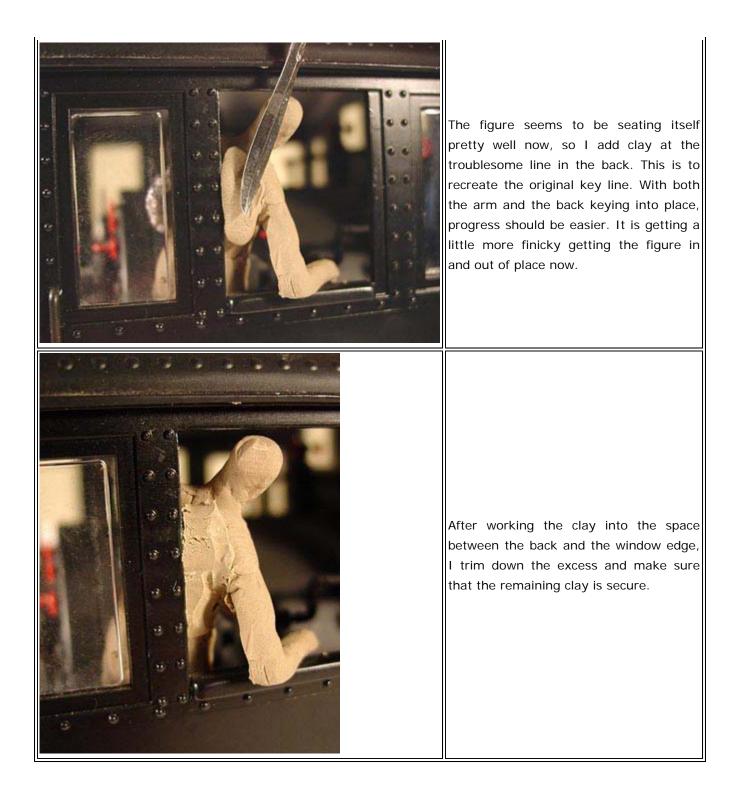




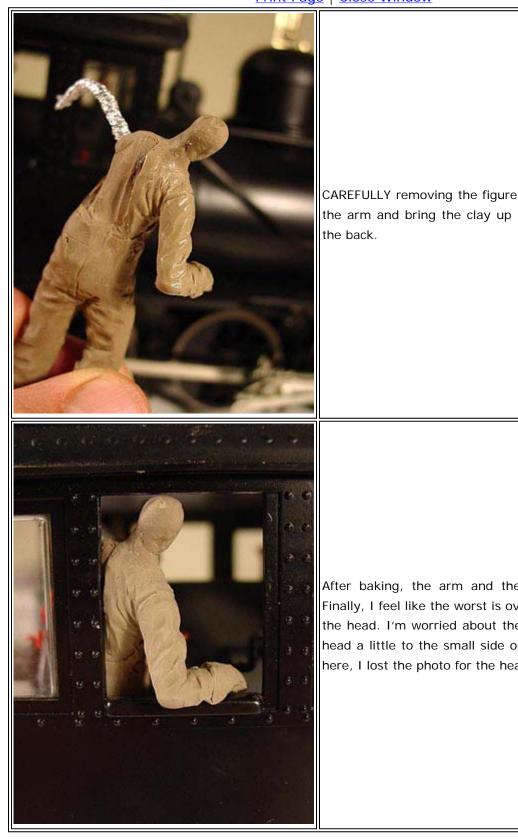


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Well, the best laid plans.... Even with careful checking things can, and do, go wrong. The arm was out of position after baking. I don't know why, it may have drooped during baking. I break the clay at the shoulder and reposition the arm. I then add clay to the break, making sure to work it well into the split and then bake ...



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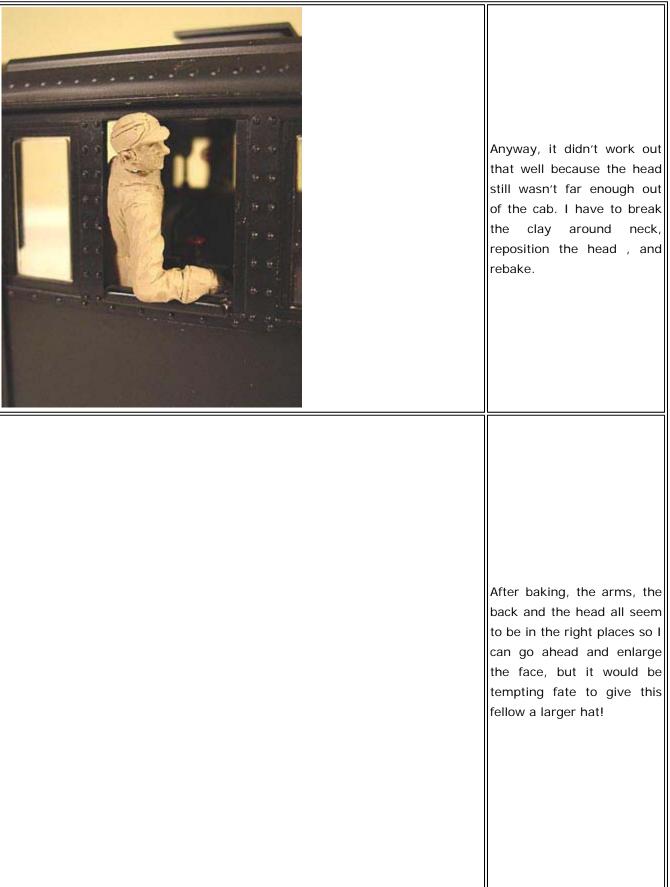


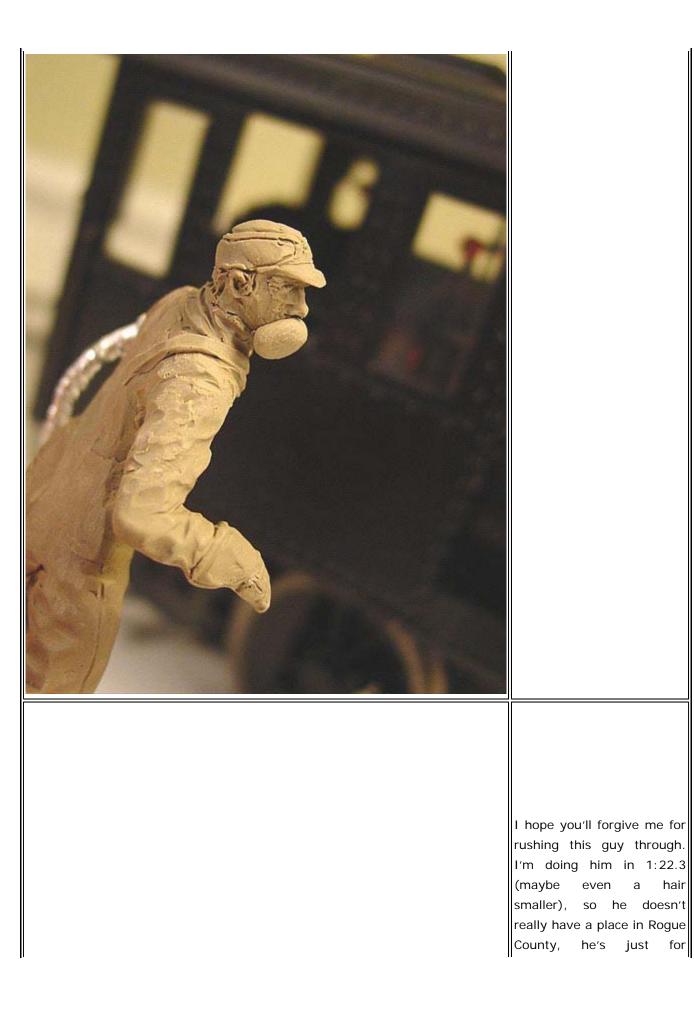
CAREFULLY removing the figure, I add the detail layer to the arm and bring the clay up into the section added to

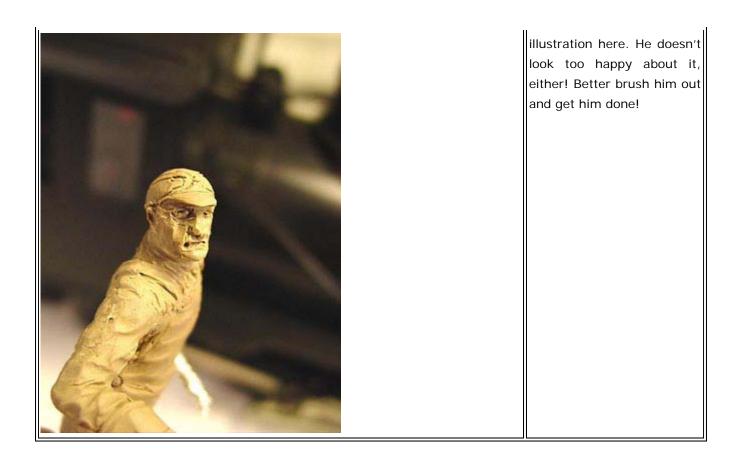
After baking, the arm and the back line up perfectly! Finally, I feel like the worst is over and quickly move onto the head. I'm worried about the tight fit and I cheat the head a little to the small side out of pure fear. I'm sorry here, I lost the photo for the head stage!

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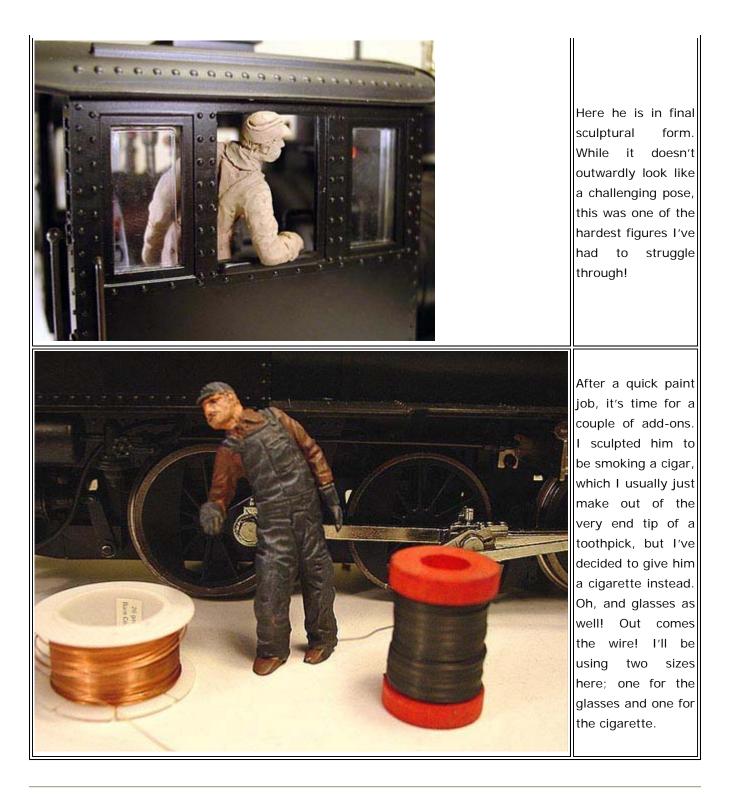
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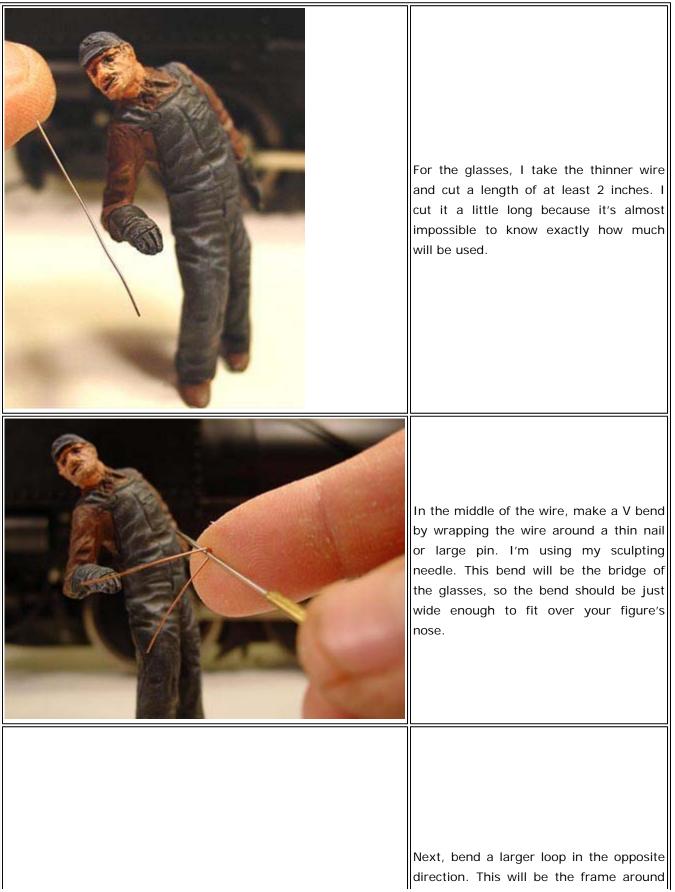


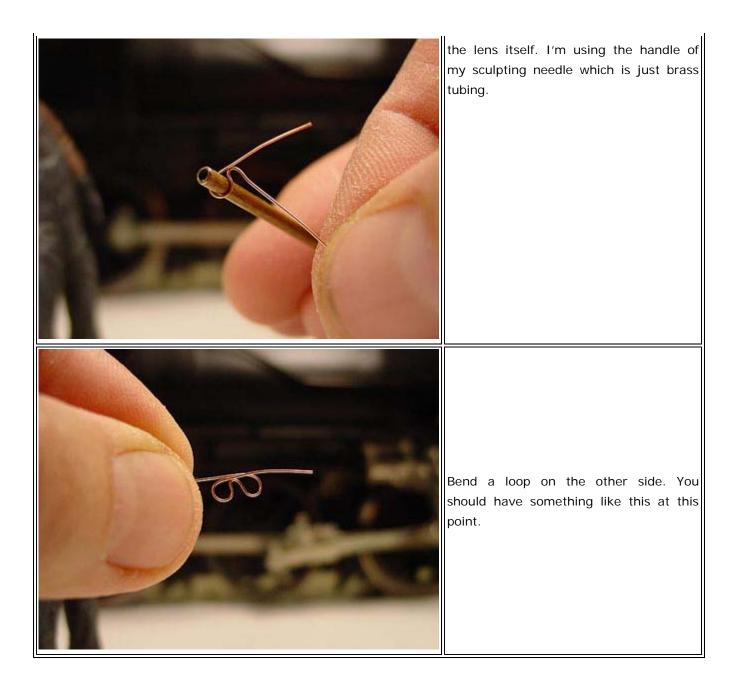


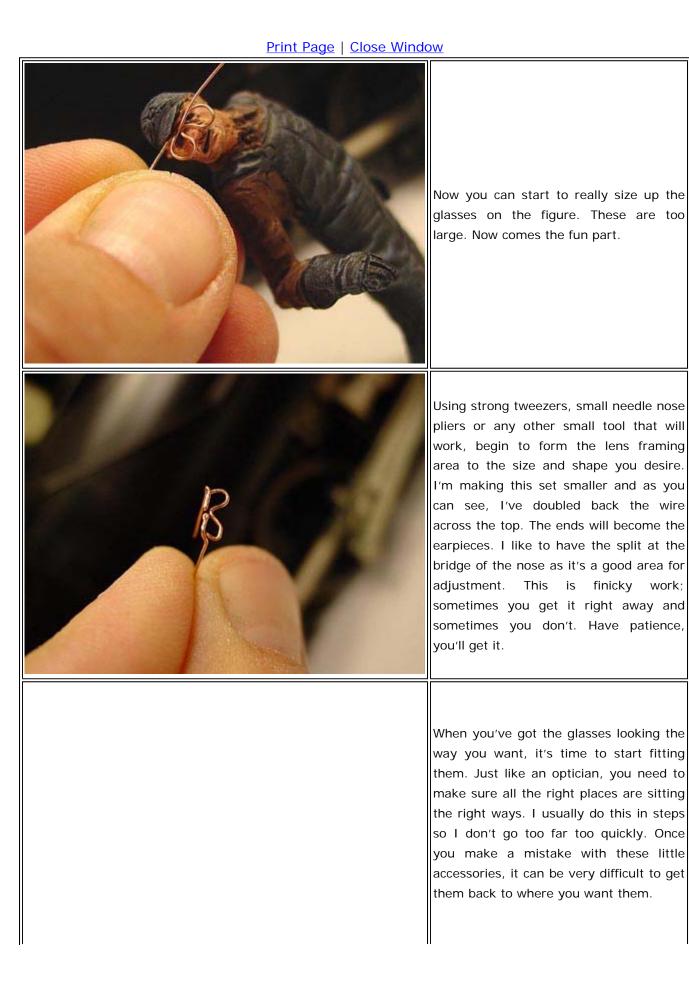
	While he's not all that easy to get in the cab, he does sit well now once he's in place and I'm content with his overall look.
	The last sculptural step is his poor, forgotten left arm. I first positioned his hand on one of the controls, but realized it would make placing him even more difficult, so I kept it loose and out of harm's way.

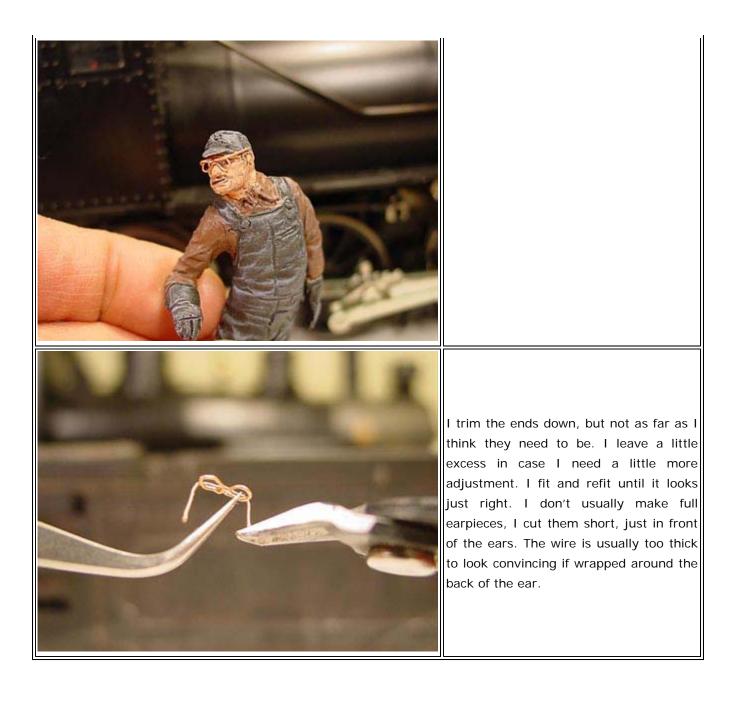


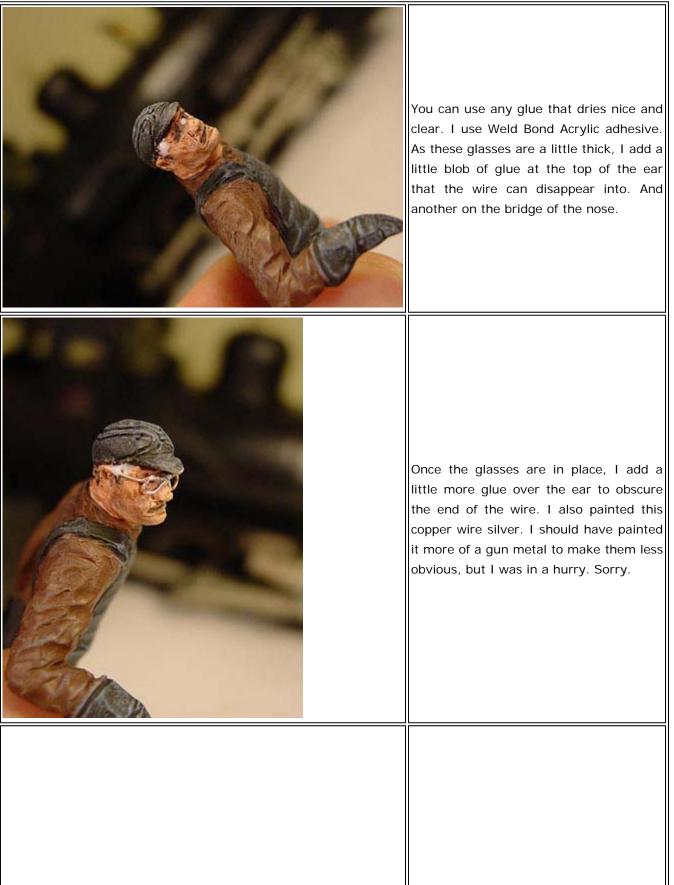
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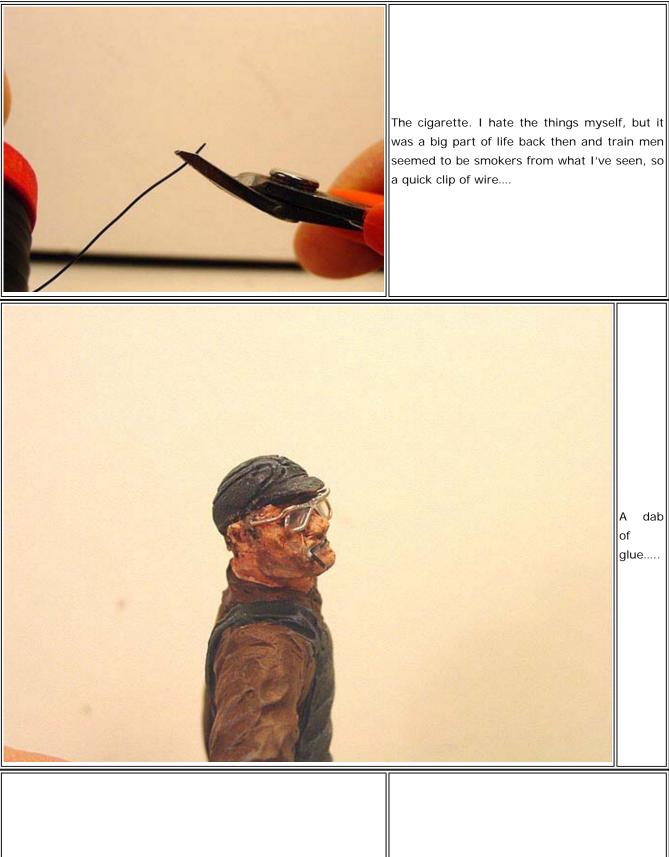






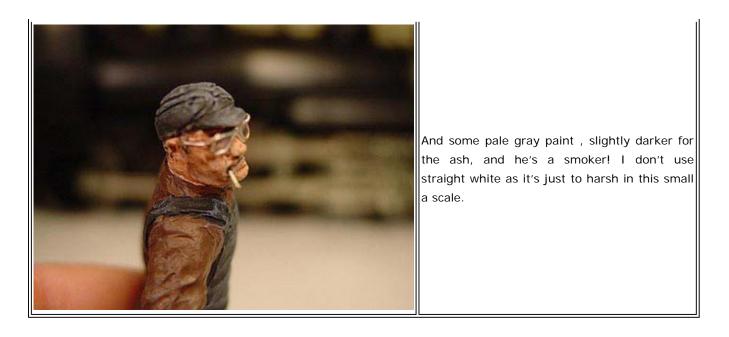


You can leave the frames empty if you like, but I like to have clear lenses, so I add a bit of the Weld Bond in the frames and smear it around until it forms a film. I've also used Polyurathane Gloss Varnish. They both work well.

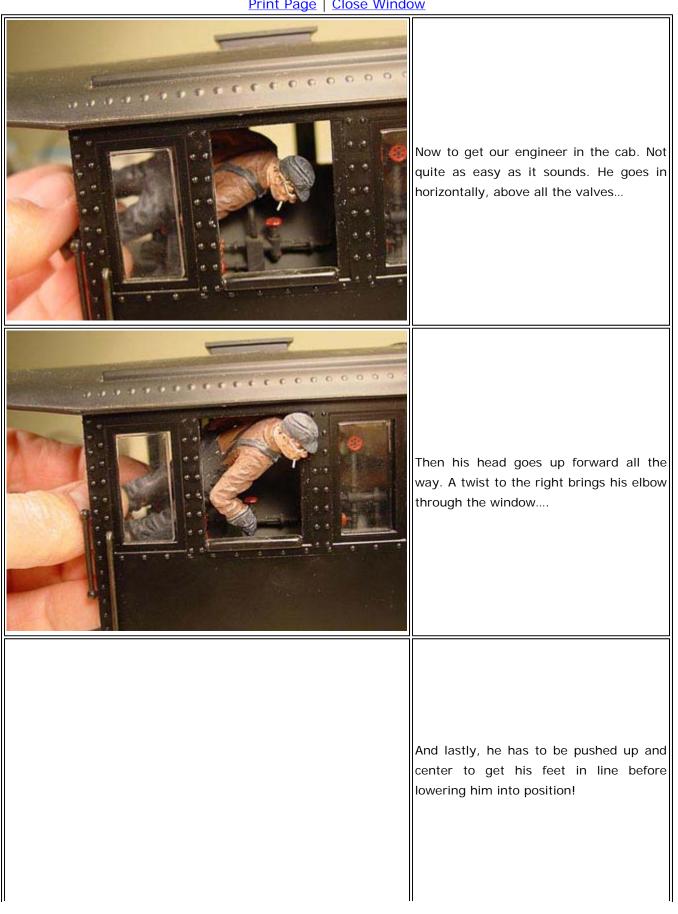


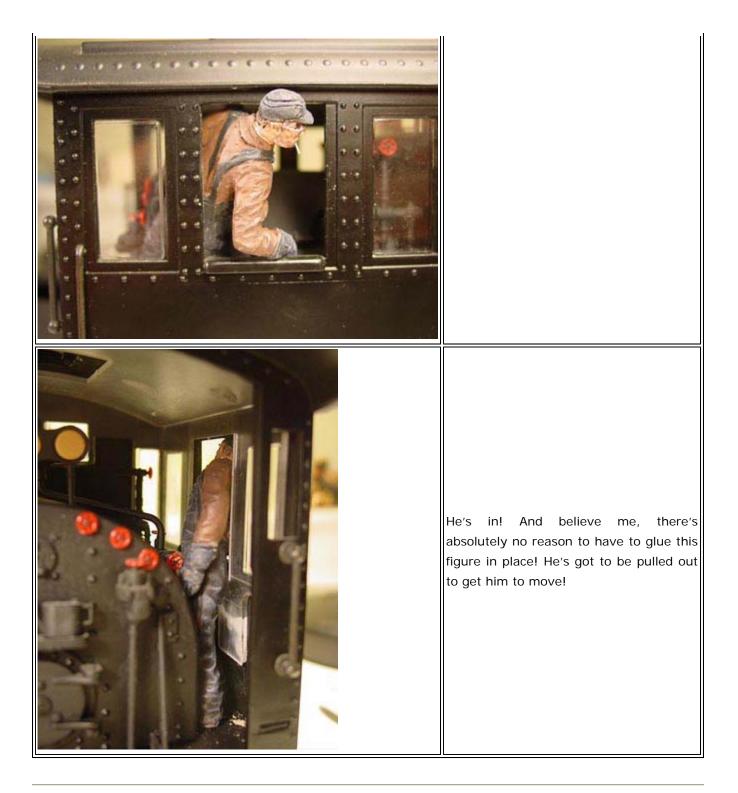
dab

А of glue.....



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Well, we did it. We fit almost a whole figure (minus a little bit of leg and foot!) into what is probably the tightest space in a largescale cab! Now it's your turn!

The Case For Painting Garden Railway Figures

I know some of you like to use the various colors of polyclay as the various parts of your figure; beige for skin, blue for jeans, black for shoes, brown for hair, etc. Whether it's because you like the look of the clay or because you don't like to paint or feel you can't do a good enough job, I just want to point out a potential downside to that approach;



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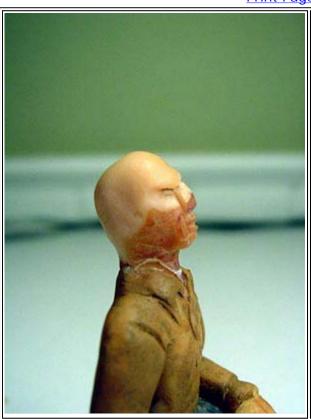
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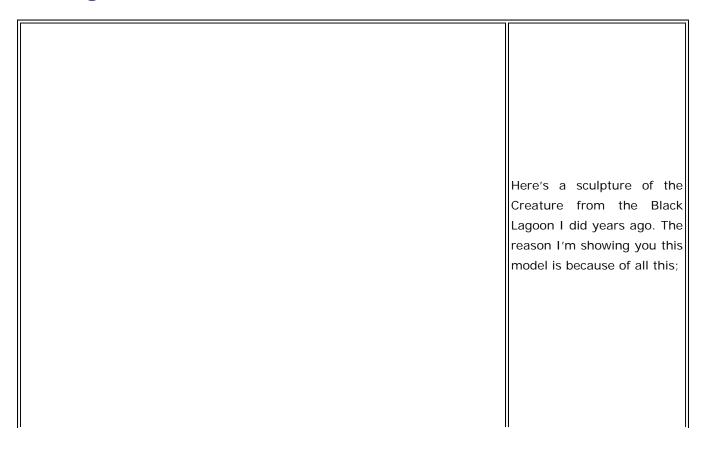


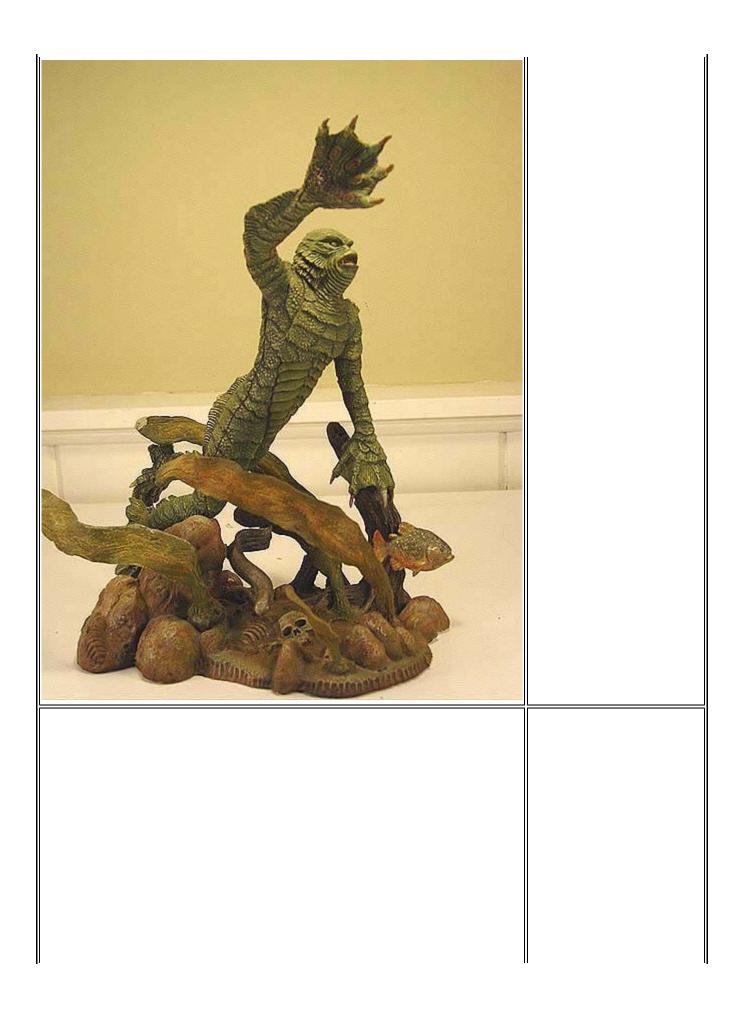
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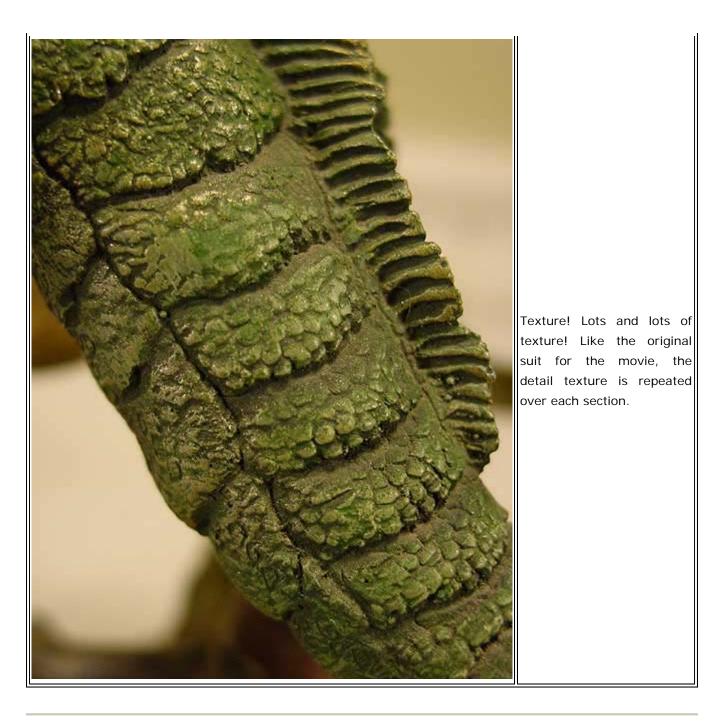


He got tanned! This only happened over the course of two months, as far as I can tell. He got solid sun every day for that time and the UV seems to have baked him a little more than necessary! Notice that not only is the color changed, but the surface texture is becoming irregular by comparison to his baby soft looking upper areas. So take this as a warning! If you are planning on leaving your polyclay figures outdoors for any length of time where they will be in direct sun, consider giving them a protective coat of paint!

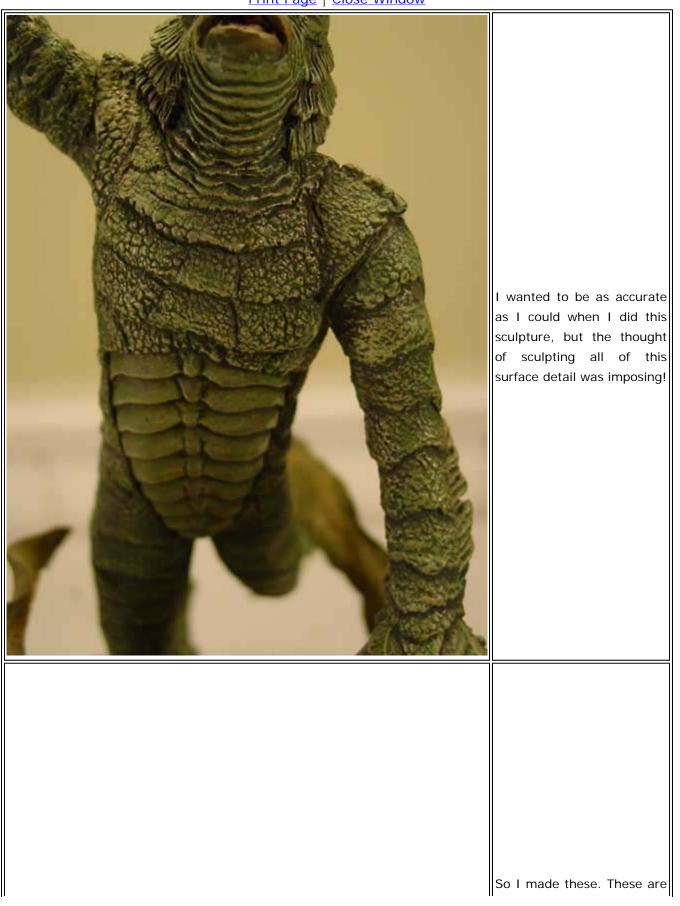
Making A Texture Pad



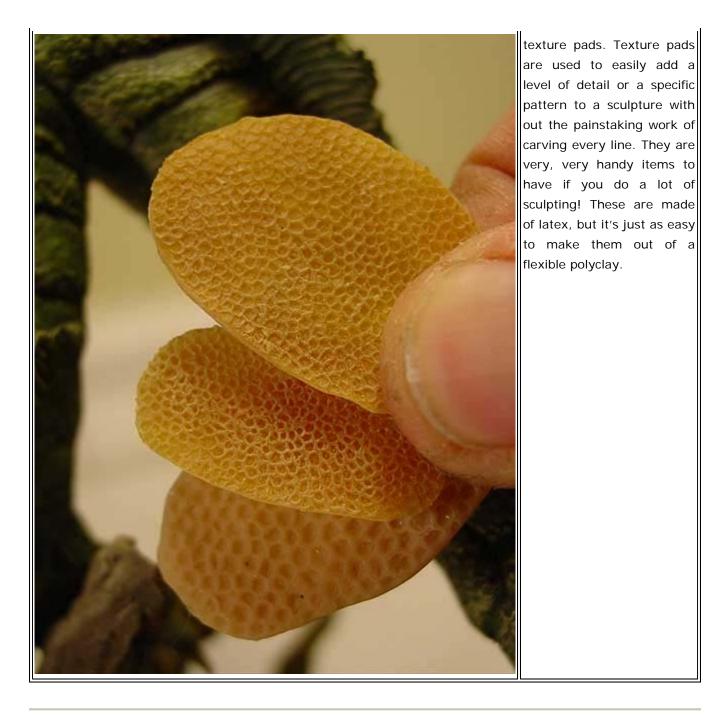




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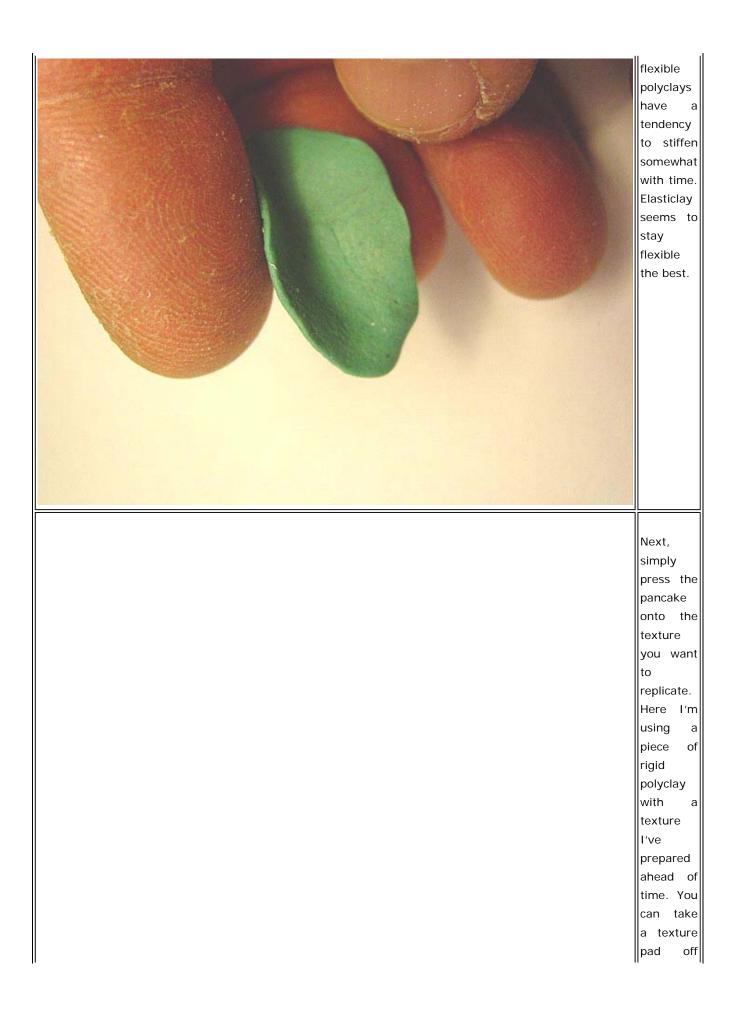
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Texture pads can be made from cloth, fruit (don't laugh! Fruit has some great textures!), toys...well, almost anything! Besides being able to add a level of detail to your figures (won't your friends marvel at the cloth detail on your figure's clothes!), texture pads can be used on many accessories as well as for making replacement parts for your trains! What a texture pad is, is really a kind of mold. And for flat surfaces, it works wonderfully. But for more ambitious applications we need to move to the next level of making a true mold.

Making A Polyclay Mold!

It is possible to use flexible polyclays as a mold-making material for certain uses. I've only used them as "Push" molds, i.e. molds that you push uncured polyclay into and then remove the formed clay to bake. I'll give you a quick example here. These molds are really best for molds on items with few details and no undercuts. However, the example I use here has detail and undercuts, just to try and push the envelope on this method.

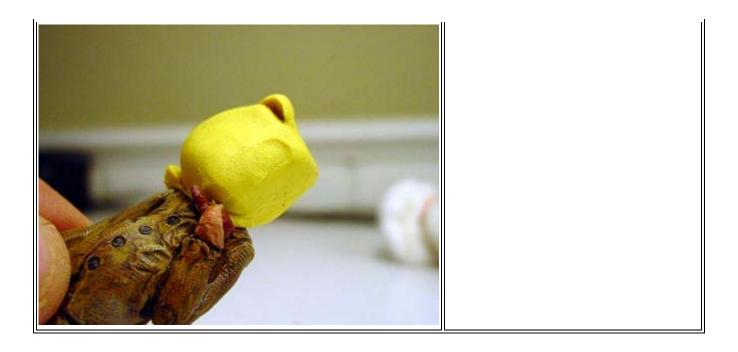
Our subject will be none other than Rogue County's visiting Professor Emeritus! I'm going to be bold, tempt Fate once again, and do a two piece mold so that I can make a full copy of the Professor's head. I'm planning on creating a few more adventures for him in his search for a Lost Kingdom and I'll be needing a few different poses with different garb, so I'll be needing several head casts.

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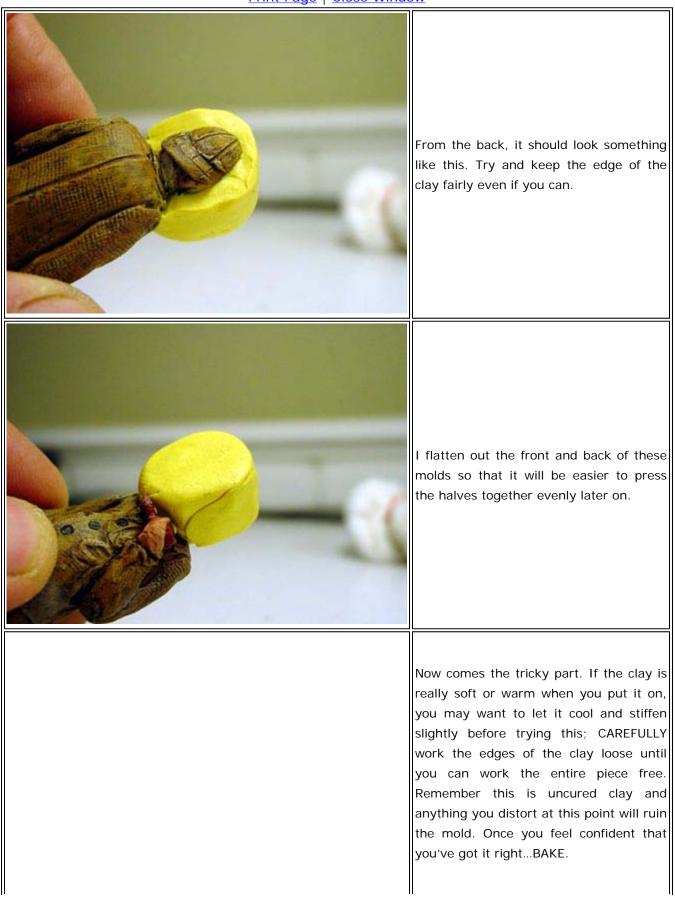
Here's the good professor with a coat of corn starch on his head (the area I'm molding). Most people suggest using a powder of some sort as a separating agent between the cured and uncured polyclay, so I'm using it in this example. But I really prefer water. The choice is yours. DO NOT use any standard mold releases for plastic casting! Especially any that use an oil or grease of any sort (many of them do). The oil in the release will actually help the raw polyclay adhere to the cured polyclay!

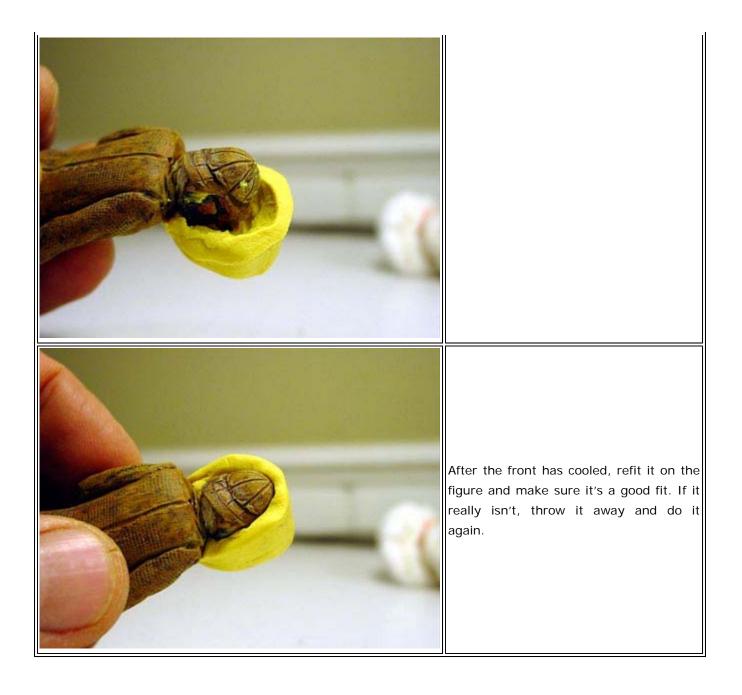


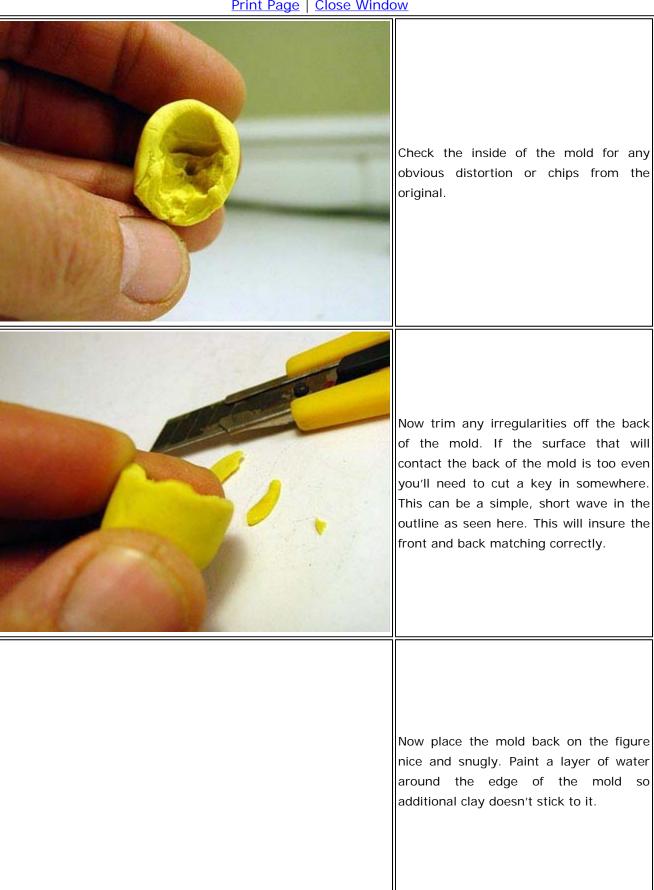


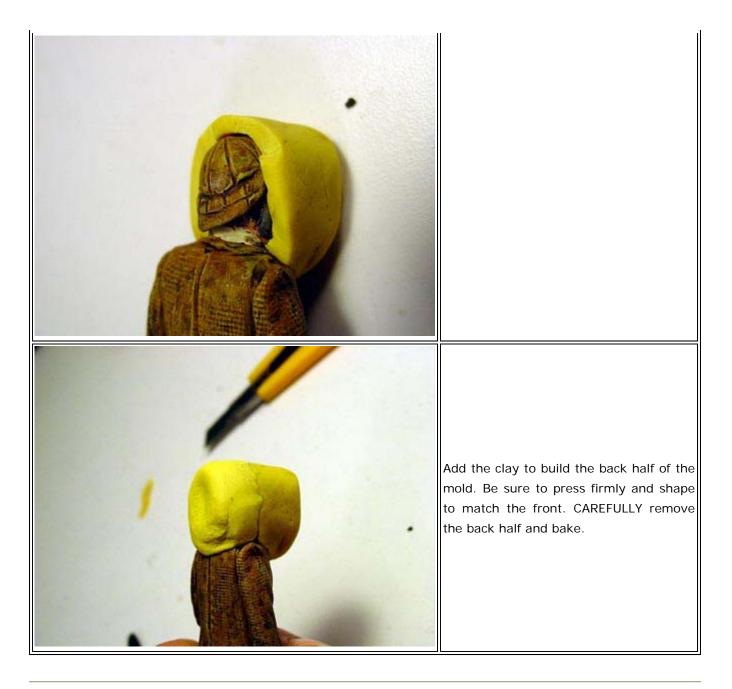
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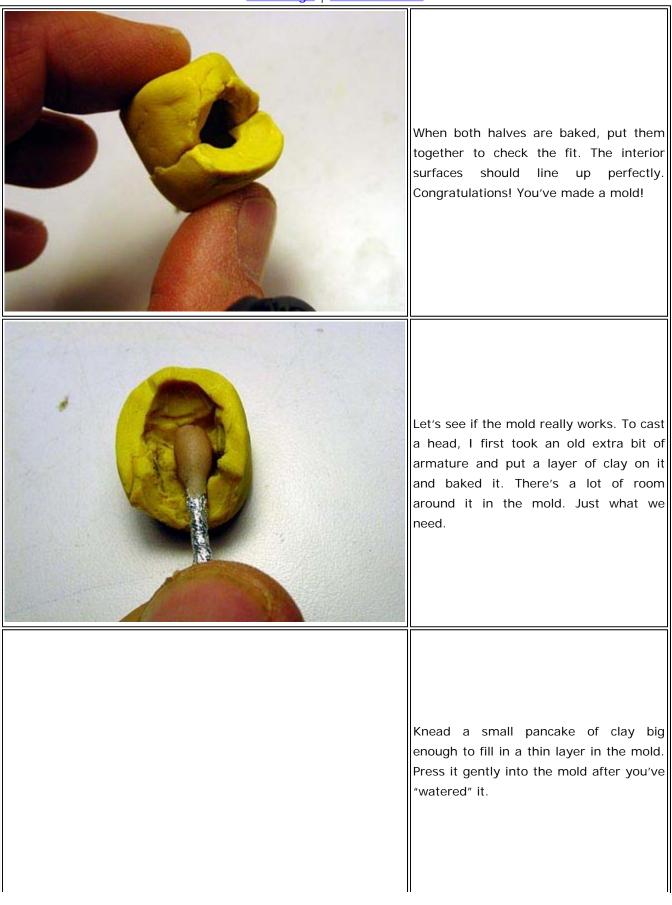


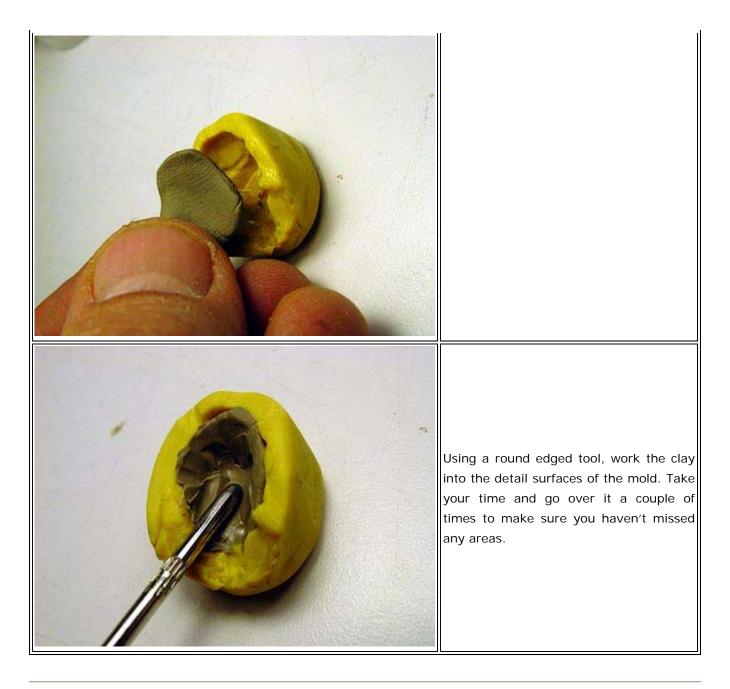




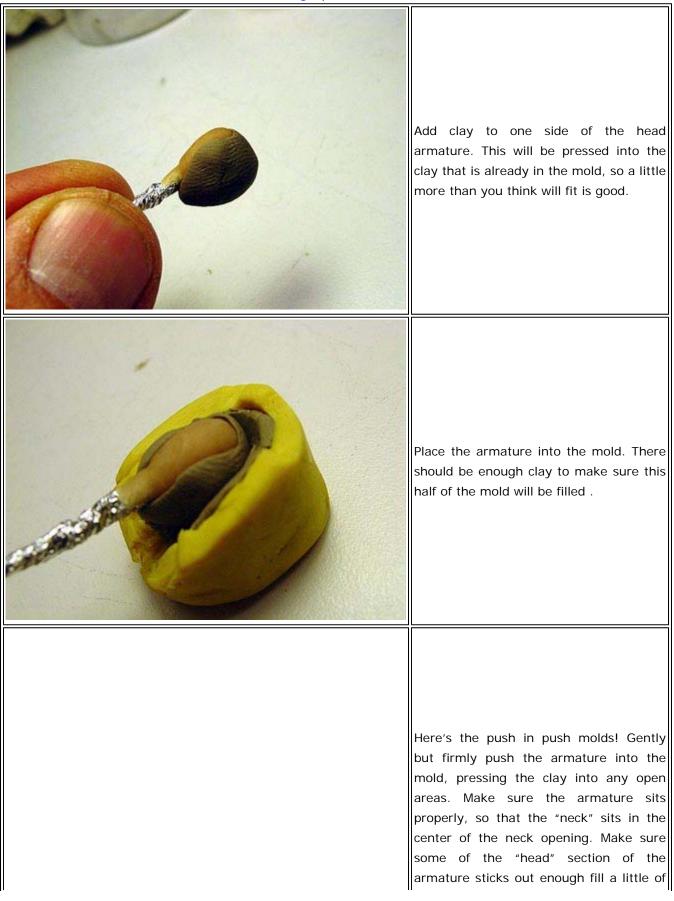


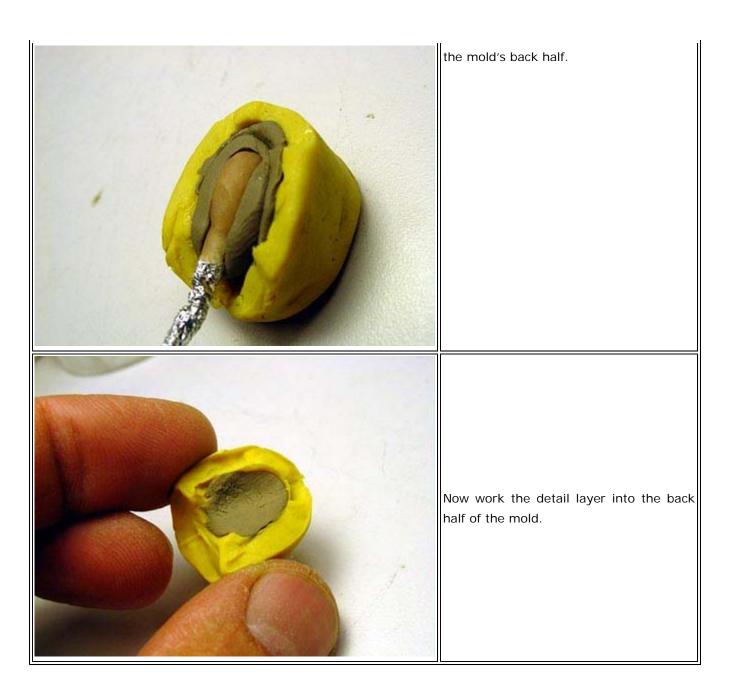
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Add some clay to the back of the armature and you're ready for the hardest step of the process...



Pressing the back half is more critical than the front half. You need to press firmly enough to fill the gaps, but not so firmly that you distort the clay in the front half. Work slowly and use small twisting motions to work the clay around. The excess clay should work its way out of the large neck opening. I've got some coming out of the top of the mold as well. Work the mold until you feel sure that both halves are well seated to each other.

Pulling the molds halves away from the raw clay casting isn't as difficult as it might seem. Just go slowly. A drop of water in the mold as you work it free will help the clay slip out of the mold. You may have to cast a couple of pieces before you get a feel for it, but it does work and it's simple. I've tried a more ambitious mold here than I would ever suggest you try. There's some distortion in this casting here, but considering the undercuts and detail, it's come out quite



Keep in mind that poly clay is not silicone and almost anything you try to cast in it will want to adhere. I suggest you stick with casting polyclay in polyclay molds! Good luck!



Well, that about wraps up this chapter! Don't forget to post any questions in the Figure Forum! Next

 $\overline{=}$

chapter we'll cover women and children. Until then, I expect to see a lot more engineers and passengers!

Chris