

Hinge Your K-27 Cab Roof

Original Topic URL: http://www.mylargescale.com/forum/topic.asp?TOPIC_ID=34880

Topic author: highpressure
Posted on: 21 Nov 2005 19:52:35

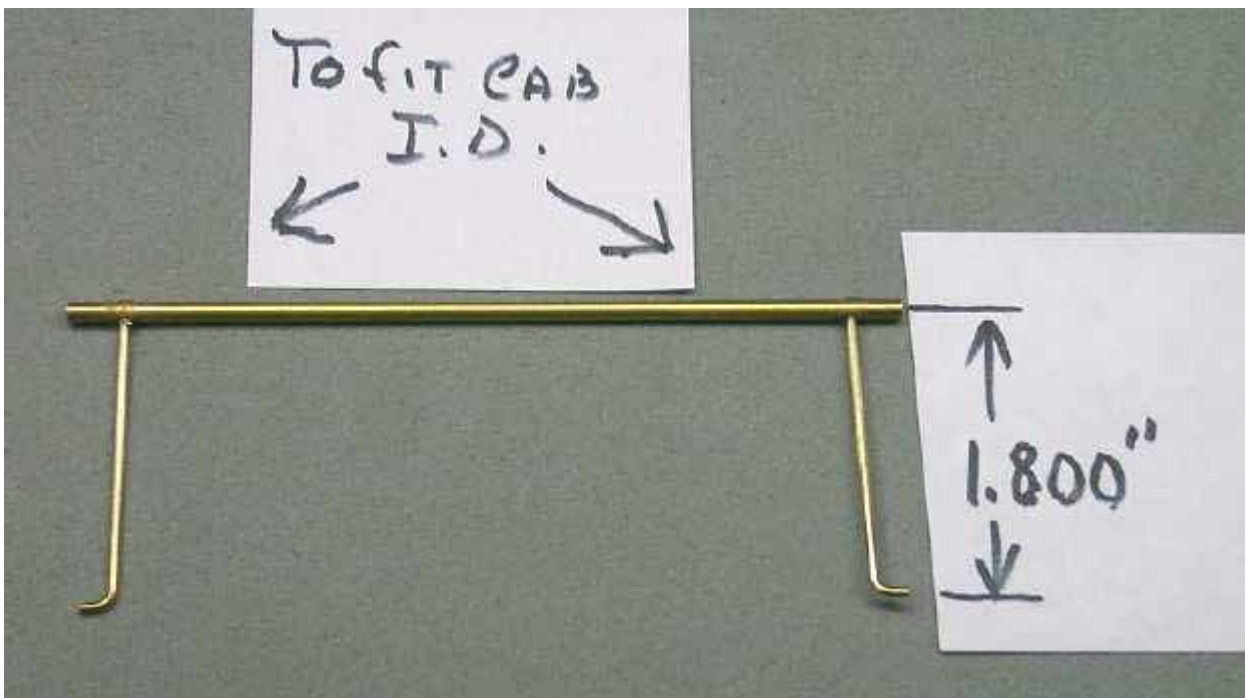
I have done this modification on all of the Accucraft locos that I own with sliding roofs. The dimensions differ from one model to the other. This is just for the K-27.

Here it is, have fun.

The first thing that has to be done is the slider channels on the roof need to be bent down so they are parallel with the cab sides when the roof is in place. I did this with a screw driver to start it and after they are up just a bit I used a small Vise Grip to work them up the rest of the way. **BE VERY CAREFUL OR YOU WILL PULL THE SLIDE CHANNELS RIVETS LOOSE.** See photos 2 & 5 before starting so you can see what has to be done.

Next you have to construct the part shown below. The cross tube is 1/8" K&S brass. Cut it to just fit inside the cab & allow just a small bit of clearance. Drill a 1/16" hole all the way thru, 1/4" in from each end. These two holes have to be on the same plane. Into these holes soft solder a piece of 1/16" brass rod, 2 1/2" long. Trim close the short end sticking out. Bend the rods to the dimension shown below and trim them off 3/16" out from the bend.

How ya doin'?



You can see here how the slider channels have been bent out to make a angle. Drill both sides 1/16" from the front at the dimension shown. The notch is to clear the lube handle on mine, if your luber is farther inboard it may not need this notch.



Drill & tap the cab front side plate as shown. Drill #53 hole, 3/8" down from the top edge of the side panel and .100" in from the front edge. Tap this 1-72. A 1-72 model bolt or screw 1/4" long goes here as the hinge pin.



Back one of the 1-72 bolts out & install that hinge assembly you made a while back. All that holds it in is those two bolts.
This notch is made to clear the ear, that goes in the roof angle when the roof is down. Before installing the roof bend the two 1/16" brass rods outward so that after the roof is installed the spring tension keeps them in place in the roof.




Here you see the roof installed. 🙏 You can also now turn your pressure gauge so the fireman can see it.



To check pressure or adjust the throttle all you have to do is stick your hand or pinkey in and lift the roof. Now is probably also a good time to do some painting & touchup so the parts won't be so noticeable. The parts on mine are now painted flat black and the 2 bolts on the cab sides are gloss black. That's my first run shown below coming out of the Square Roundhouse.



Larry "olfart" Herget  LS 2173

Replies:

Reply author: bigsteam

Replied on: 21 Nov 2005 22:36:48

Here is another way to hinge your cab roof, this is a picture under the heading in this forum "Steamin' at Steve's - Coal Fired Aster Mikado."



John

Reply author: Brooks
Replied on: 22 Nov 2005 04:05:23
Message:

Thanks for posting your ingenious design, Larry. You should head up the Accucraft design department.

I made the hinge, and it works. Unfortunately, I pulled one of the slider channels off while bending it. On mine, the rivets are only for show, and the channel was only secured with a couple dabs of solder. The other channel stayed put. I don't know if it had more solder, or if I bent it differently. I think it helps if you push down against the cab roof while bending with the vise-grips.

Reply author: jmkling
Replied on: 23 Nov 2005 07:29:28

Larry ,

Thanks for the idea! I have been wanting to hinge the roofs on my C-16, C-21 and K-27...now you have shown me the way. This is the best part of MLS, sharing the ideas between everyone. 😊. I just added this to the winter list of to-do's. I'll work on the K first since the dimensions are available and to gain experience.

Jon
SA #461

Reply author: Chris Scott
Replied on: 23 Nov 2005 08:35:33

quote:

Originally posted by bigsteam


Here is another way to hinge your cab roof, this is a picture under the heading in this forum "Steamin' at Steve's - Coal Fired Aster Mikado."

Norm Saley makes an open to the side roof ninge that I saw at NSS.

Reply author: highpressure
Replied on: 23 Nov 2005 09:44:10

Side opening roofs are good. However they seem to get in the way if you happen to be standing on the same side the roof open's to. If the roof opens left and you are on the left firing you are having to look & work around the roof.

I look at it as a hood on a car. If you were trying to put spark plugs in a car that has them on the left and the hood also opened to the left, the hood would definately be in the way.

See ya
"olfart"  LS 2173

Reply author: jmkling
Replied on: 23 Nov 2005 10:20:24
Message:



I agree. Plan to start mine this weekend. DO you happen to have any measurements for a C-21 or C-16? I think the K ones would work on the C-21, but the C-16 is alot smaller. Thanks.

Jon
SA #461

Reply author: Charles
Replied on: 23 Nov 2005 10:54:34

quote:

Originally posted by bigsteam

Here is another way to hinged your cab roof, this is a picture under the heading in this forum "Steamin' at Steve's - Coal Fired Aster Mikado."

It/s the wrong photo Gromitt! That is a K27 conversion by Torry owned by Bob McC... definitely not a Aster Mikado.

Larry's retrofit has an advantage in accessing the complete cab from both sides.

Reply author: highpressure
Replied on: 23 Nov 2005 11:59:14

C-21 HINGED ROOF The only difference is the width of the piece of 1/8" brass tubing that the hinge assembly is made of, it has to be made to just fit between the two cab walls with just a bit of clearance. All other dimensions are the same. **Lifting the roof is different due to the Turbo-generator exhaust pipe.** It can't just be flipped up like on the K-27. It has to be lifted so the leading edge will go over the exhaust pipe then put upright.

Larry "olfart" Herget LS 2173

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