

Hello William.

Sorry for the delayed and missed responses to your emails. When I was looking back through our previous exchanges I noticed I had apparently 'made it down the road' without having replied to your last email. Mondays and Fridays bring the most emails and I answer all I can right away, but for ones that take more thought and time, I'll save for after I've completed the bulk.

Copied below are our previous exchanges and the last one which I had skipped-over :-| and, the reply to it.

Subject:
Your PAiA Order ID: 7479
From:
Scott Lee <scott@paia.com>
Date:
Monday, 1/31/2011 4:04 PM
To:
x

Hello William.

I am sorry to report that we have run short on Theremax kits. More are being readied, but it could be another couple of weeks or so before your order can be completed (awaiting delivery on circuit boards). Please let me know if this is going to be a problem.

I will contact you before sending the package.

In the meantime, the assembly and using manual included with the kit may be viewed at the PAiA Talk site:

<http://www.paia.com/talk/viewtopic.php?f=6&t=262&start=0>

Thank you.

Sincerely, Scott Lee

-0-

Subject:
Re: Your PAiA Order ID: 7479
From:
x
Date:
Monday, 1/31/2011 4:21 PM
To:
Scott Lee <scott@paia.com>

OK, Scott. Thank you.

-0-

Subject:
Re: Your PAiA Order ID: 7479
From:
x
Date:
Monday, 2/21/2011 7:27 PM
To:
Scott Lee <scott@paia.com>

Hi, Scott. Do you have an ETA on the Theremax kits?

Bill Fredette

-0-

Subject:
Re: Your PAiA Order ID: 7479
From:
x
Date:
Thursday, 2/24/2011 3:51 PM
To:
Scott Lee <scott@paia.com>

Hi, Scott. I e-mailed you a few days ago, but haven't received a response. Do you have an ETA on the Theremax kits?

Thanks,

Bill Fredette

-0-

Subject:
Re: Order ID: 7479
From:
x
Date:
Friday, 2/25/2011 1:55 PM
To:
sales@paia.com

Hello. I placed the above referenced order for a Theremax kit on 1/31. Shortly thereafter, I received an e-mail from Scott at your company saying the kit was back ordered and that it would likely be "a couple of weeks" before it could be filled. I have since e-mailed Scott twice seeking a status update or ETA on the kit and have received no reply. Can you please let me know when I might be able to expect

the kit? The lack of response makes me a little leery.

Thank you,

Bill Fredette

-0-

Subject:
Re: Order ID: 7479
From:
Scott Lee <scott@paia.com>
Date:
Monday, 2/28/2011 10:09 AM
To:
x

Hello Bill.

I have the boards now and anticipate getting orders shipped by Wednesday or Thursday this week, possibly sooner...

Thank you.

Sincerely, Scott Lee

-0-

Subject:
Re: Order ID: 7479
From:
x
Date:
Monday, 2/28/2011 10:18 AM
To:
Scott Lee <scott@paia.com>

Great. Thanks for your reply, Scott.

Bill

-0-

Subject:
A couple of questions about a Theremax build
From:
x
Date:
Monday, 3/14/2011 11:12 AM

To:
scott@paia.com

Hello, Scott. I recently received a Theremax kit. It went together easily thanks to the excellent documentation, but I have a couple of questions regarding modifications.

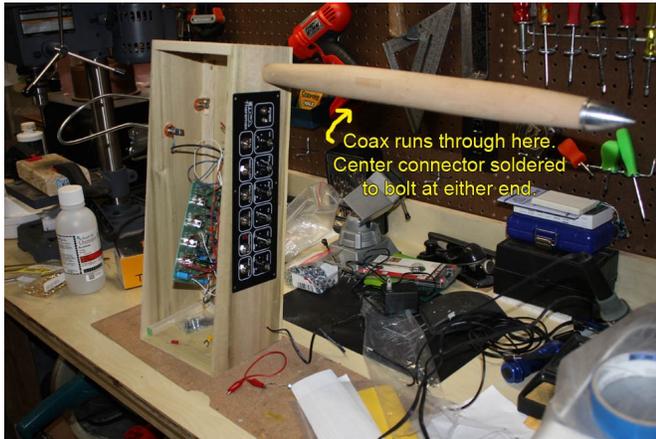
1. I need a pitch preview, and I found the schematic for that modification on the PAIA site. However, the schematic seems to say to disconnect the positive leg of C36. It also shows a switch, that I want to leave out of my modification since I don't have a need to introduce outside signals. When I tried the modification after lifting the positive lead of C36, I got very little signal at either the pitch preview or main audio outputs. When I tried it with the positive leg of C36 in place, I got much better signal at both the preview and main outputs. So I guess I have two questions, is the switch shown in the schematic necessary, and if I leave C36 in place, am I doing any damage? (I guess these questions presuppose that I have otherwise got the mod right - I simply ran a fly wire connected to R65 with the new capacitor and resistor in place to the mute jack.)
2. Since I really like the look of the antennas on the Moog Etherwave Pro, I am trying to reproduce that on my build. I have attached some photos, but the basic idea is a french rolling pin with a hole bored lengthwise through the center and a hanger bolt (also with a central longitudinal hole) on each end. I have a length of coax passing through the rolling pin with the center connector soldered to the hanger bolt at each end so that the entire unit can simply be screwed into a nut inside the case to which the center connector of the pitch antenna lead is soldered. The problem I'm having is that with this set up the entire horizontal length of the rolling pin acts as the pitch antenna (what I want is for a vertical piece of steel that will be attached to the end cap to serve as the antenna). My assumption is that this is happening because shield wire in the coax is not continuous from the circuit board out to the far end of the antenna arm. Is that correct? If so, I will need to think of a way to get around that while still having the antenna arm be easily removed and reattached. But before I tear it all apart, I want to make sure I'm thinking along the right lines.

Thank you for a great project. I look forward to hearing from you.

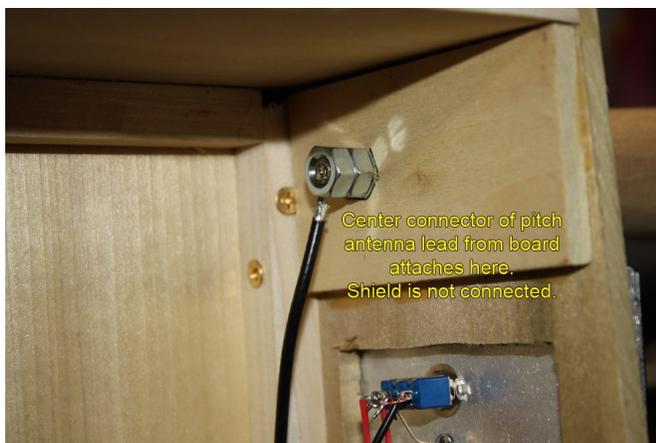
Antenna arm end.jpg



Antenna arm.jpg



Antenna lead connection.jpg

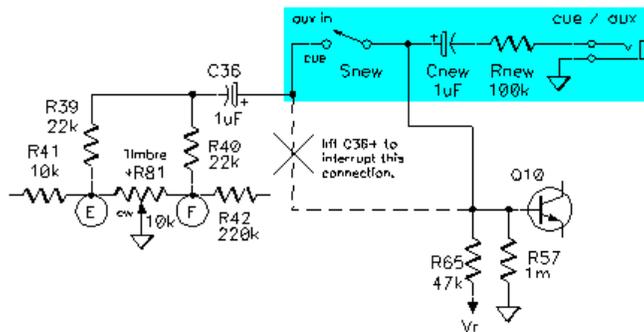


Wide shot.jpg



Nice work and photos! Thanks.

About the cue modification, the reason the signal was lower with C36 lifted is that R65 was out of the circuit and not working to steady the audio fluctuations at the Vr potential (half the dc supply), and, the connection to the VCA/Audio output section was open. It is OK to make the tap at R65 as you have done. The switch is only needed for opening the theremin audio and replacing it with an external audio signal. Then, just to be sure, you will have substituted the Cue output for the wire (T) that had been going to the Mute jack, right? They should not both be connected at this new, Cue connector.



This cue circuit allows listening to a preview of the pitch being produced before bringing up the volume on a note. Tapping the audio path at the location shown in the drawing provides a constant level output to drive a small headphone amp such as our [9605 Headphone Buffer Amp](#).

The same jack can also be used as an auxiliary input to pass external signals through Tmax's VCA. When the added switch is closed, external inputs are mixed with Tmax's internal tone circuitry. With the switch open the internal tone circuitry is replaced with the external signal.

About the pitch antenna extension arm, it would be necessary to make the run out to the vertical rod using shielded cable instead of just the single conductor afforded by the rod in the extension. A hollow extension would allow the shielded cable to make the run.

It looks like the shield is trimmed a bit too close to the internal wire in one of your images. It should be about 1/4" (5mm) away to prevent accidental contact. A bit of heatshrink or other tubing will help to ensure the nib of the clipped shield wires don't touch the antenna mount.

Thanks again!