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Hoffman Amplifiers > Amp Stuff > Tube Amp Building - Tweaks - Repairs (Moderators: Geezer, tubenit, PRR, sluckey) > **Silvertone 1484 - Tremolo Chirping / ticking**

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Author Topic: Silvertone 1484 - Tremolo Chirping / ticking (Read 2333 times)

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**LooseChange**

SMG  
Level 4  
  
 Offline

Posts: 3504



Keep it greasy so it goes down easy.

**Silvertone 1484 - Tremolo Chirping / ticking**

« on: December 08, 2011, 03:57:32 pm »

**Quote**

I have a 1484 on the bench and when you turn the tremolo up, it chirps with the speed setting. Any ideas how this can be stopped? Tube is good.

Schematic:  
<http://www.el34world.com/charts/Schematics/files/silvertone/silvertone1484.pdf>

« Last Edit: December 09, 2011, 12:07:23 pm by LooseChange »

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**Tiny Daddy**

Level 4  
  
 Offline

Posts: 2691



Get your Amp N

**Re: Silvertone 1484 - Chirping !**

« Reply #1 on: December 08, 2011, 05:43:53 pm »

**Quote**

Chrrping as in bursts of self-oscillation? Are the filter caps good?

Gear!



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**LooseChange**

SMG  
Level 4  
  
 Offline



**Re: Silvertone 1484 - Chirping !**

« **Reply #2 on:** December 08, 2011, 05:51:56 pm »

**Quote**

Yes, replaced all.

Posts: 3504



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**Tiny Daddy**

Level 4  
  
 Offline



**Re: Silvertone 1484 - Chirping !**

« **Reply #3 on:** December 08, 2011, 06:54:58 pm »

**Quote**

Still doing it if you pull the reverb driver tubes?

Posts: 2691



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**tubeswell**

Level 3  
  
 Offline



**Re: Silvertone 1484 - Chirping !**

« **Reply #4 on:** December 09, 2011, 02:39:03 am »

**Quote**

did you try another trem tube?

Posts: 1313

He who dies with the most tubes... wins

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Just tryin' to keep my Rs clean. OK?

**LooseChange**

SMG  
Level 4  
  
 Offline



**Re: Silvertone 1484 - Chirping / Ticking.**

« **Reply #5 on:** December 09, 2011, 12:06:55 pm »

**Quote**

Tried a few tubes... All the same.

**Quote**

Still doing it if you pull the reverb driver tubes?

Still does it with that tube pulled.

I'd have to say it is really more like a ticking.



Keep it greasy so it goes down easy.

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**Tiny Daddy**

Level 4



Offline

Posts: 2691



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**HotBluePlates**

Level 5



Offline

Posts: 8225



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« **Reply #6 on:** December 09, 2011, 07:56:51 pm »

[Quote](#)

Does it tick the same regardless of the trem strength setting> You may need to change the routing of a wire.



Learning the fine points of Thermionic Kung Faux!

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From Principles of Electron Tubes: "... the phase of the output voltage is retarded."

**LooseChange**

SMG

Level 4



Offline

Posts: 3504



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« **Reply #8 on:** December 10, 2011, 07:02:23 am »

[Quote](#)

**Quote from: Tiny Daddy on December 09, 2011, 07:56:51 pm**

Does it tick the same regardless of the trem strength setting> You may need to change the routing of a wire.

It changes in the first half of revolution. The ticking starts at a higher tone and settles after the half turn to a lower tone.

**Quote from: HotBluePlates on December 09, 2011, 11:48:38 pm**

Do you have a scope? If so, could you look to see if the trem oscillator is clipping?  
No scope available.

There is a fix for trem ticking on a Fender. I need to look that up.



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easy.

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**sluckey**

Global Moderator  
Level 5  
  
 Offline

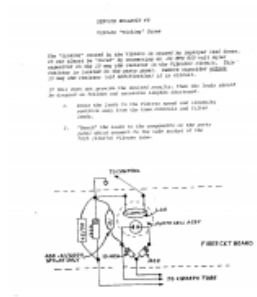
Posts: 8506



**Re: Silvertone 1484 - Tremolo Chirping / ticking**  
« Reply #9 on: December 10, 2011, 07:22:07 am »

[Quote](#)

...



[FenVibMod9.gif](#) (24.5 KB, 1175x1467 - viewed 59 times.)

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**LooseChange**

SMG  
Level 4  
  
 Offline

Posts: 3504



Keep it greasy so  
it goes down  
easy.

**Re: Silvertone 1484 - Tremolo Chirping / ticking**  
« Reply #10 on: December 10, 2011, 09:43:12 am »

[Quote](#)

I'll try that.

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**LooseChange**

SMG  
Level 4  
  
 Offline

Posts: 3504



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it goes down  
easy.

**Re: Silvertone 1484 - Tremolo Chirping / ticking**  
« Reply #11 on: December 11, 2011, 11:29:47 am »

[Quote](#)

Fender mod did not work BUT.... I figured it out.  
Lead dress. The wire that goes from the tube to the LDR runs halfway across the amp. Directly by the grids of the power tubes too. I rerouted and all is good.

I've worked on MANY 1484's and I have never run into this before.

Thanks for the help!

Amp back to the owner.

[Report to moderator](#) [Logged](#)



Call me Dan

**Willabe**

Level 4  
  
 Offline

Posts: 3316



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« Reply #12 on: December 11, 2011, 12:21:27 pm »

**Quote**

You Sir, are good! Always enjoy following one of your combat missions.

Brad

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**Platefire**

SMG  
Level 4  
  
 Offline

Posts: 3211



How many tube amps do you need? One more!



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« Reply #13 on: December 11, 2011, 09:48:39 pm »

**Quote**

Aw! I love a good trouble shooting story with a happy ending. I was wondering what it would turn out to be? Good Job!

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On the right track now<><

**Willabe**

Level 4  
  
 Offline

Posts: 3316



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« Reply #14 on: December 11, 2011, 09:58:01 pm »

**Quote**

**Quote from: LooseChange on December 11, 2011, 11:29:47 am**

BUT.... I figured it out.  
Lead dress. The wire that goes from the tube to the LDR runs halfway across the amp. Directly by the grids of the power tubes too. I rerouted and all is good.

Brad

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**LooseChange**

SMG  
Level 4  
  
 Offline

Posts: 3504



Keep it greasy so it goes down easy.



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« Reply #15 on: December 12, 2011, 05:06:26 am »

**Quote**

Tiny was the one who suggested a re-route... The big question was which wire! I guess well.   
I really like solving these type of puzzles. But I do have my limits. This one came in under that limit.  
Thanks for all your help.

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Call me Dan  
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**TerryP**

Level 1



**Re: Silvertone 1484 - Tremolo Chirping / ticking**

« Reply #16 on: October 14, 2013, 07:00:29 am »

**Quote**

 Offline

Posts: 1



A very late post, hopefully useful to others with this problem. I had the same issue, chirping & ticking affected by tremelo setting.

Fortunately I had a 'scope and high voltage probe, so could look to see what was happening. There was parasitic oscillation on the tremelo neon, bursts or continuous depending on tremelo setting. Frequency on mine was around 20kHz, but any extra capacitance (such as meter probe) on the node would give an audible squeak/squeg. My theory is that the neon was forming a relaxation oscillator with the capacitance of the connecting wire and circuitry. I isolated this capacitance with a 220k resistor in series with the neon's leg, wired between the leg and adjacent tagboard. All traces of the oscillation disappeared, along with all the audible side-effects.


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**HotBluePlates**

Level 5  
  
 Offline



**Re: Silvertone 1484 - Tremolo Chirping / ticking**  
« Reply #17 on: October 14, 2013, 08:53:53 am »

 [Quote](#)

Now that's a handy trick!! Thanks for sharing!

Posts: 8225



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From Principles of Electron Tubes: "... the phase of the output voltage is retarded."



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