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Author

Topic: Leak TL10 restoration (Read 703 times)

pete

Member



Offline

Location: London

Posts: 481



Leak TL10 restoration

« on: March 16, 2009, 12:38:57 PM »

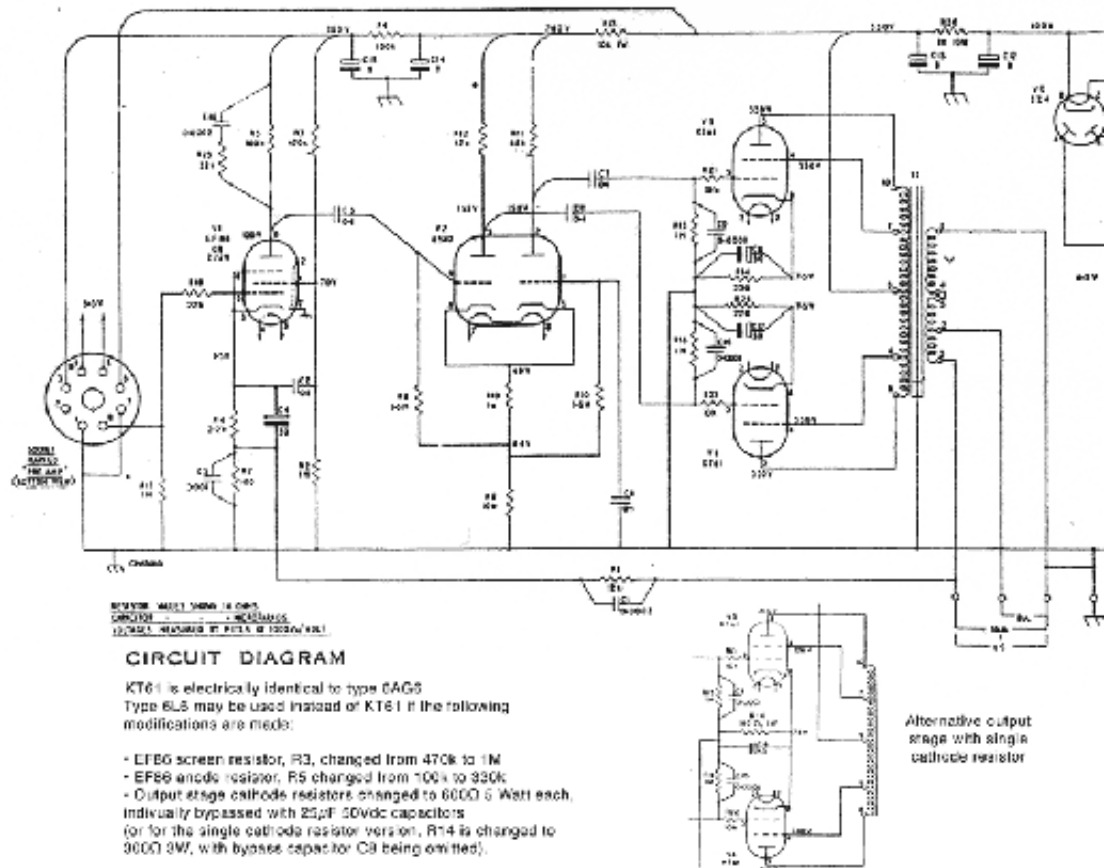
Hi guys,

An aborted experiment passed on to me some time ago by a very nice chap not too far from here, so that I can restore it back to standard and use it as the perfect compliment for my Wharfdale baffle (thanks Brian!).

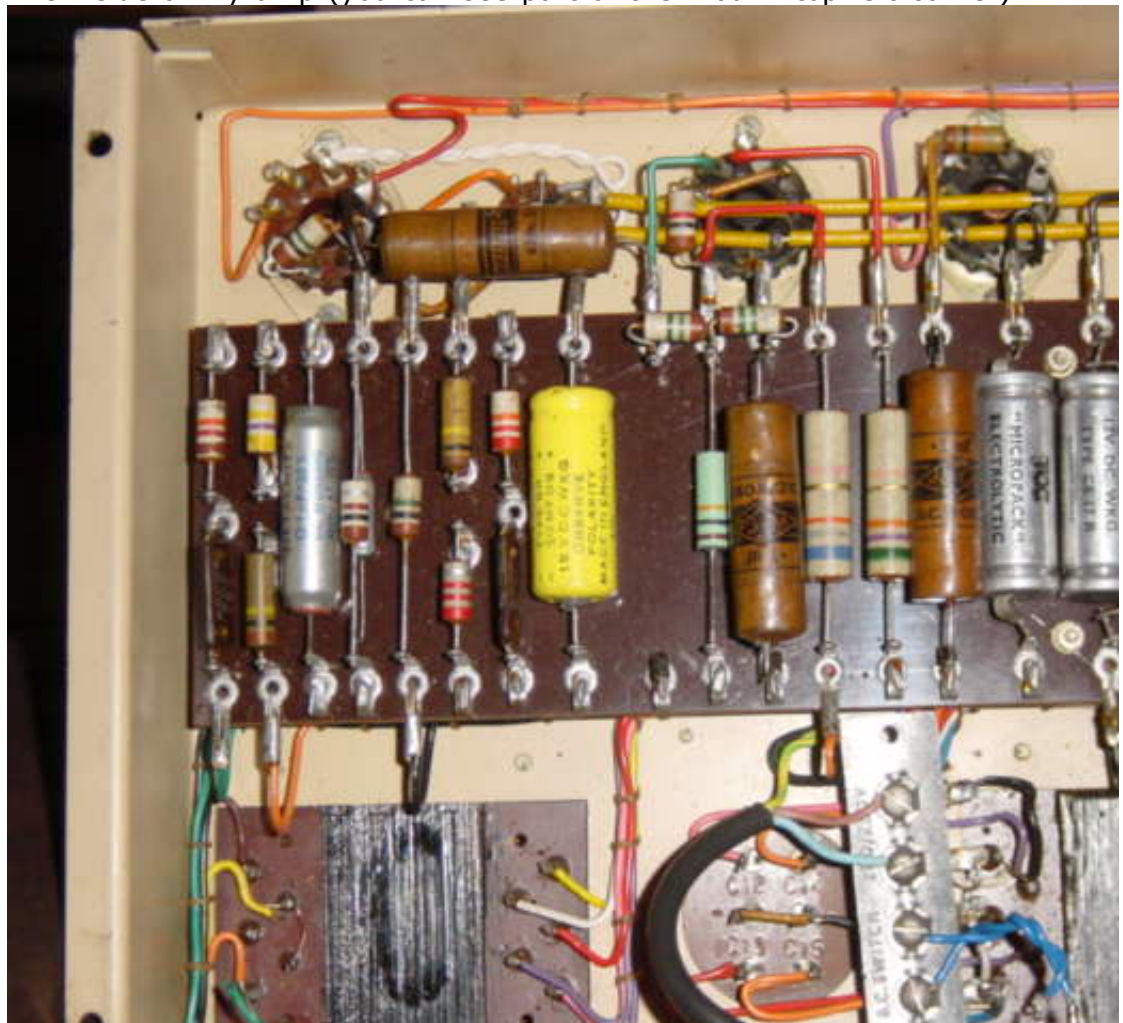
Thing is I've no experience restoring this kind of thing so while it's been sat in the corner I've read a book or two, worked out how to read the circuit diagram and re-acquainted myself with a soldering iron. I also got a lot of help identifying the actual components in the amp and can cross reference these on the circuit diagram - though the component values on the digram are fairly illegible so i'm not certain of the original values.

So I thought I'd share what I have understood so far and ask for your advice and comments as to what i should do as a minimum to get this thing working (as cheaply as possible!).

Circuit diagram

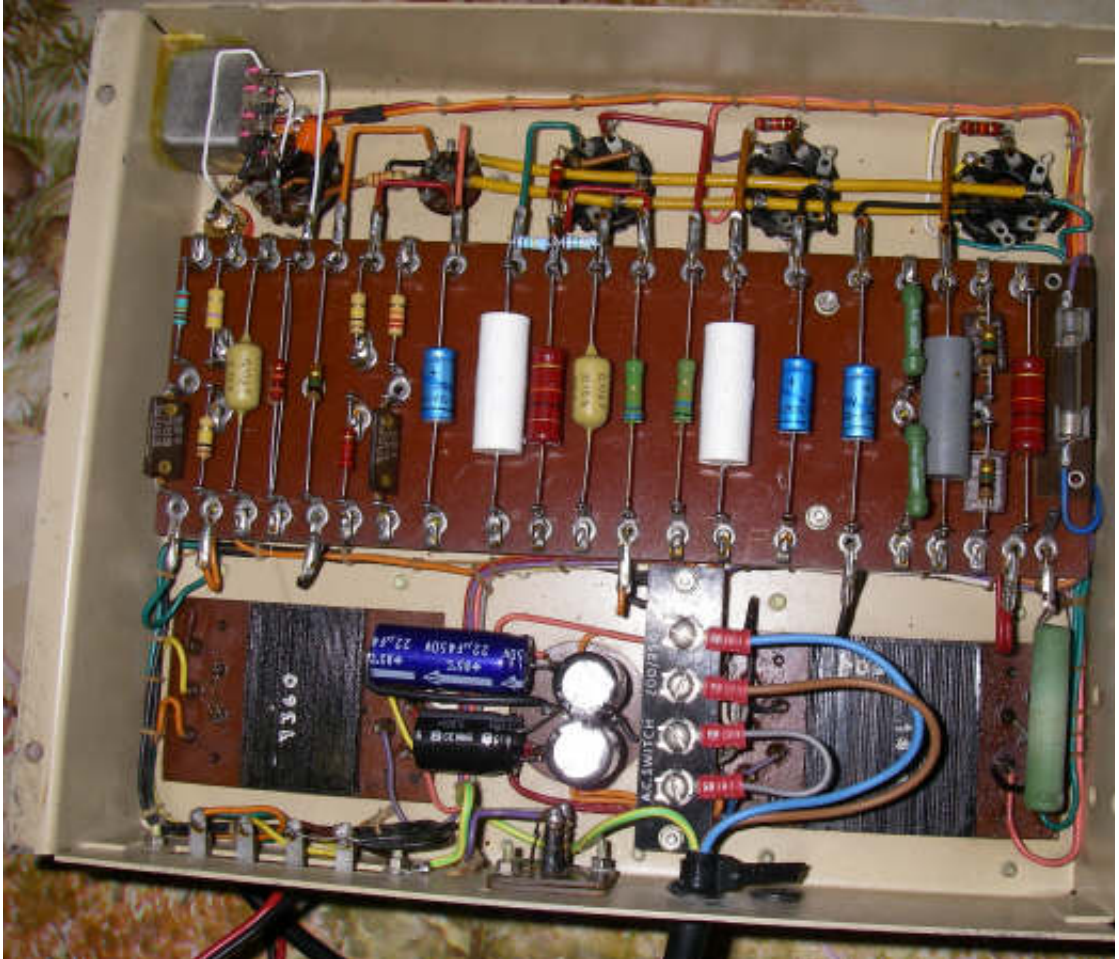


The inside of my amp (you can see part of the mod in top left corner)



The inside of a restored amp used to identify components. This is also

modded slightly with an input transformer in the top left as it is part of a stereo pair. Additional smoothing capacitors fitted across the originals can also be seen. But the main components are close to original.



Here is the description of the components seen on the restored amp left to right, top to bottom.

R1 12k ohm C5 mica 0.002uF.

R3 470K R4 100K

C2 0.1uF

R7 100R and C3 0.001uF

R2 1M

R5 100K R6 2k2

R23 22K C16 0.001uF

C4 100uF [Leak used 30uF -yellow can on mine]

C5 0.1uF [moved on mine]

R9 10K then horizontal 1.5M

Horizontal 1.5M and C6 0.1uF [small yellow one in restored amp]

R11 68K*

R12 57K* [56K fitted in restored amp]

* advised that these are top quality salmon pink band in my amp and I should not have to change these.

C7 0.1uF [white in restored amp]

C8 100uF elec 40V

C17 100uF elec 40V

R14 270R 4W green in restored amp R24 270R [same as R14]

C11 0.1uF [grey in restored amp]

R15 1M // C9 0.001uF mica R16 1M // C10 0.001uF mica

R13 10K

fuse holder

There is a 1K from pins 5,6 on the 6SN7 v/h to the tag board and pin 5 on both output tubes each have a 10K to the tagboard.

On the front end of the amp you will find a 22K linking from the International valve holder to pin 9 of the EF86 valve holder.

There is a 1M from the IO end of the 22k aforementioned to chassis.

I have been advised the following:

'Check out the main smoothing capacitor and change it if possible for a new one. Looks like it's 8 + 8 + 8 + 8 uf at 450/500V.'

As far as i can tell there is no practical way for me to 'check' this out. Any suggestions?

'Provided you do not make the first section [connecting to the cathode of the 5Z4] more than 32uF then you can have whatever greater values you can get for the other three sections, in fact the higher the better.'

Any thoughts on this?

'Looking at the state of the KT61 cathode 220R resistors on your chassis they appear in good nick so it's probable the amp has not been thrashed! Best to increase the value to 270R 4W on the rebuild.'

Any thoughts?

Don't power the amp with those existing paper 0.1 uf caps in as they will surely be leaky and you could stress the o/p KT61s

Any thoughts? Can't remember what you said about this Brian?

So in general, I'm looking for comments on above advice and any other advice comments welcome.

Which components in the list should i replace as a matter of course and which can be left alone?

Many thanks,
Pete



pete
'easy and convenient'

brian
Guest



Re: Leak TL10 restoration

« **Reply #1 on:** March 16, 2009, 01:53:47 PM »

Those 0.1 caps are new Pete, made to look old specifically for restoration of vintage equipment. They were given to me by someone in the trade who knew his onions 😊

daiwok
Administrator
Member



Online

Age: 40
Location: HONG
KONG
Posts: 4412



Re: Leak TL10 restoration

« **Reply #2 on:** March 16, 2009, 03:05:01 PM »

My family have been in the Fish and Chip industry for 30 years before hand in Manchester, so I guess I know my Potatoes and COD 😊 😊



David 😎



Vinyl is BLACK MAGIC

woody
Guest



Re: Leak TL10 restoration

« **Reply #3 on:** March 16, 2009, 03:19:45 PM »

David

"are you taking the fish"

and the relevance to leak tl10 is ?

daiwok
Administrator
Member



Online

Age: 40
Location: HONG
KONG
Posts: 4412



Re: Leak TL10 restoration

« **Reply #4 on:** March 16, 2009, 03:27:10 PM »

Quote from: brian on March 16, 2009, 01:53:47 PM

They were given to me by someone in the trade who knew his onions 😊

sorry Woody, I was commenting on the onions 😊



David 😎



Vinyl is BLACK MAGIC

brian
Guest



Re: Leak TL10 restoration

« **Reply #5 on:** March 16, 2009, 03:42:33 PM »

Which of course would be pickled 🤪

Logged

pete
Member
★★★★★
 Offline

Location: London
Posts: 481



Re: Leak TL10 restoration

« Reply #6 on: March 16, 2009, 03:50:49 PM »

ok i'm none the wiser re the job in hand but at least i have an idea what to have to eat this eve! 🤪

Logged



pete
'easy and convenient'

GP49
Member
★★★★★
 Offline

Location:
Northern
California, USA
Posts: 1197



Re: Leak TL10 restoration

« Reply #7 on: March 16, 2009, 03:54:53 PM »

Quote from: daiwok on March 16, 2009, 03:27:10 PM

sorry Woody, I was commenting on the onions : 🤪

Quote from: pete on March 16, 2009, 03:50:49 PM

ok i'm none the wiser re the job in hand but at least i have an idea what to have to eat this eve!
🤪

If you want to spend the rest of the evening by yourself, that is!!!

Logged

Gene

pete
Member
★★★★★
 Offline

Location: London
Posts: 481



Re: Leak TL10 restoration

« Reply #8 on: March 16, 2009, 03:59:06 PM »

Quote from: GP49 on March 16, 2009, 03:54:53 PM

If you want to spend the rest of the evening by yourself, that is!!!

lol i won't be alone... i'll be surrounded by 1950's audio junk!

Logged



pete
'easy and convenient'

ken13
Member
★★★★★
 Offline

Location:
Southeast Kent
Posts: 362



Re: Leak TL10 restoration

« Reply #9 on: March 16, 2009, 04:23:57 PM »

Hi Pete,
Getting away from your dinner for a moment,
Would a better drawing help, i think i have one in my LEAK book ?.



I did think of something to put hear, but forgot by the time i got hear,,,,,,,,



Regards Ken.

daiwok
Administrator
Member



Re: Leak TL10 restoration

« **Reply #10 on:** March 16, 2009, 04:34:14 PM »



Online

Quote from: ken13 on March 16, 2009, 04:23:57 PM

Hi Pete,
Getting away from your dinner for a moment,
Would a better drawing help, i think i have one in my LEAK book ?.

Age: 40
Location: HONG KONG
Posts: 4412

Bring it on !! 😁



David 😎

Vinyl is BLACK MAGIC



pete
Member



Re: Leak TL10 restoration

« **Reply #11 on:** March 16, 2009, 04:36:33 PM »

★★★★★
 Offline

Quote from: ken13 on March 16, 2009, 04:23:57 PM

Hi Pete,
Getting away from your dinner for a moment,
Would a better drawing help, i think i have one in my LEAK book ?.

Location: London
Posts: 481

Ken,
Yes one that shows the cap and resistor values clearly would be great thanks!



cheers,
Pete



pete
'easy and convenient'

ken13
Member



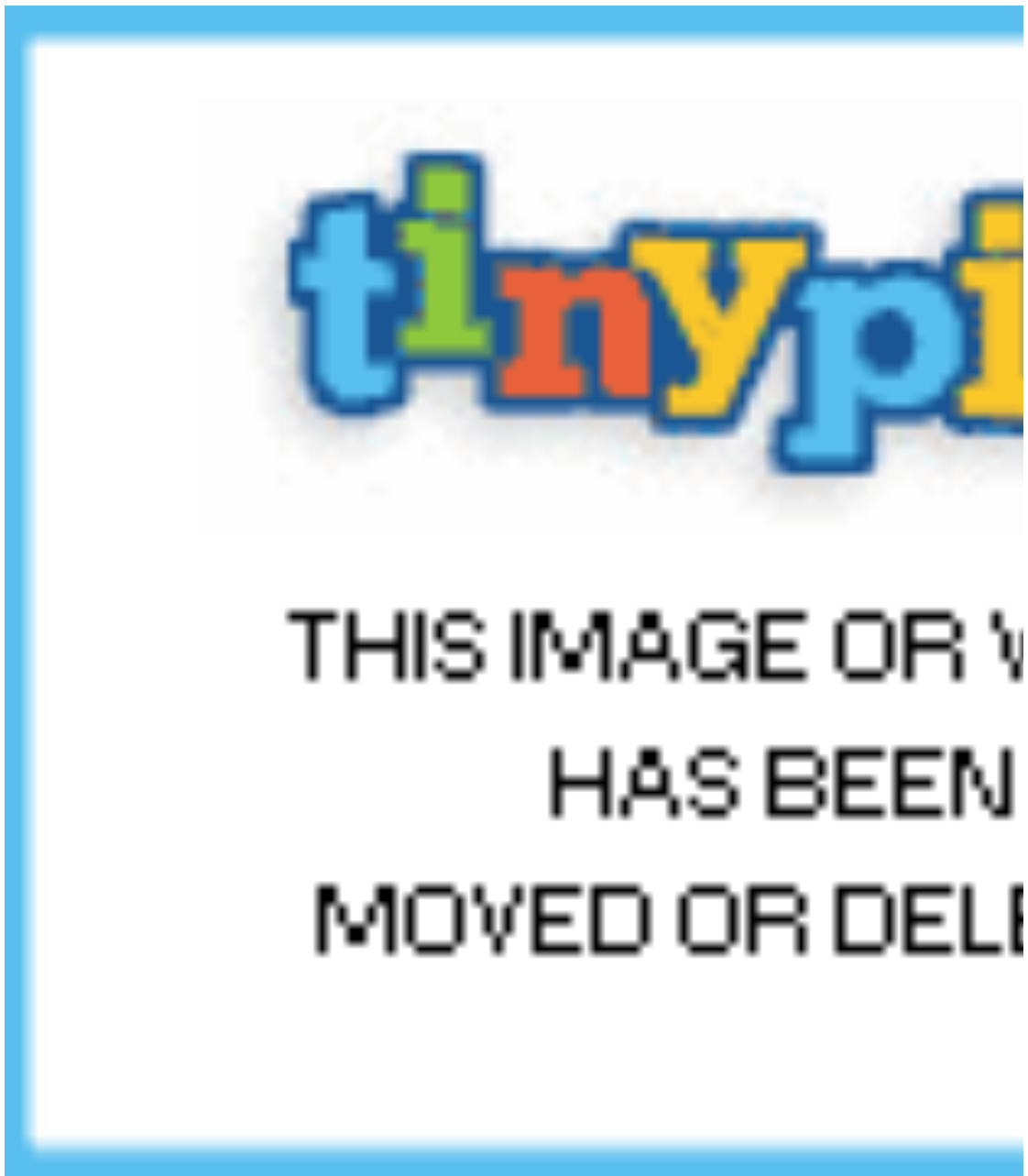
Re: Leak TL10 restoration

« **Reply #12 on:** March 16, 2009, 04:39:41 PM »

★★★★★
 Offline



Location:
Southeast Kent
Posts: 362



Hope it is a bit better,,,i tried to load three, but this one is best.



« Last Edit: March 16, 2009, 04:42:08 PM by ken13 »

Logged

I did think of something to put hear, but forgot by the time i got hear,,,,,,,,

Regards Ken.

pete
Member
☆☆☆☆
 Offline



Re: Leak TL10 restoration

« Reply #13 on: March 16, 2009, 04:44:37 PM »

Much clearer thanks Ken! 😊

Location: London
Posts: 481



Logged



pete
'easy and convenient'

ken13

Member
★★★★★

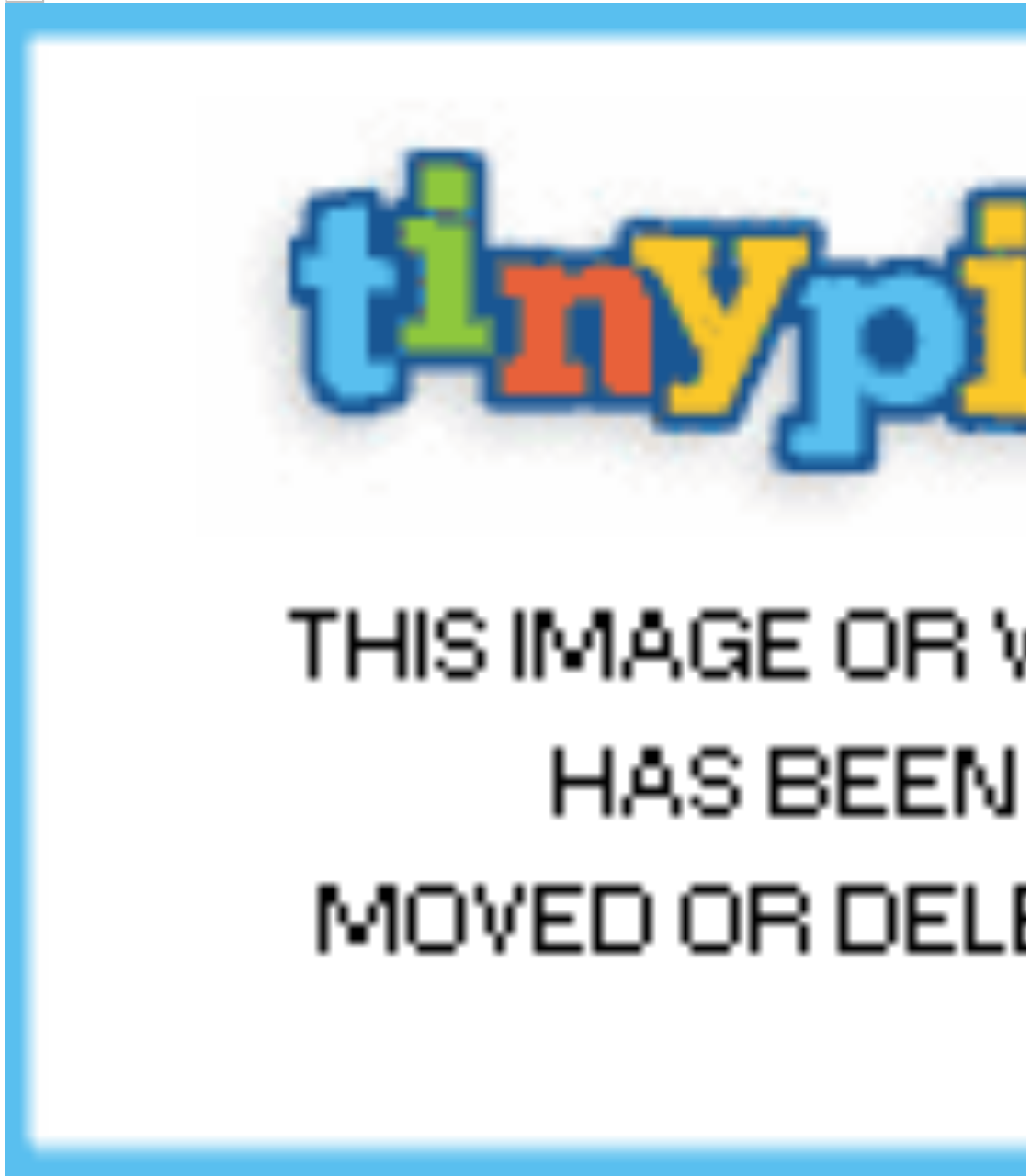
Offline

Location:
Southeast Kent
Posts: 362



Re: Leak TL10 restoration

« Reply #14 on: March 16, 2009, 04:49:20 PM »



bit more detail around the KT 61.
Need any more , let me know,,



Logged

I did think of something to put hear, but forgot by the time i got hear,,,,,,,,

Regards Ken.

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