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From: Bjorn (bjola@ki.se)

Date: 1/15/2001 3:48 PM

Subject: **The definite cure for Fender Flatulence – any prescr**

After reading several posts on flatulence I tried some mods in my Fender amps. In my SR (BF) I tried to increase gain and then tried decrease some mud and flatulence. Overall, I'm satisfied and the amps sounds much better than stock, but the bass response still really is to much, especially in the SR. Even with the mods performed (below) I can't dial in much more than "3" on the bass knob (Volume 6-8, Treble 7). In my other amp (a DR) similar mods are performed with a very nice result (the DR has a SS rectifier and 6L6's) – but the SR is still to bassy and still lives in the closet when compared to the DR. These amps are no gain monsters but rather clean with a good portion of head room. I do, however, like to push them a bit. My question really is two questions. The first is on bass response and the second on "opening up the SR" a bit more.

Mods performed:

1. The CBC in the first gain stage (V2) were changed from 22 uF to 2.2 uF (the resistor changed from 1500R to 1K) and in the second gain stage to 10 uF.
2. The coupling caps from the driver tube were changed from 0.1 to 0.047uF.
3. The NF resistor was changed from 820R to 1K2. I kept the grounded 100R resistor (by the NF resistor) and bypassed it with a 1uF cap with a 1M Audio push/pull pot (Volume). A sort of fixed presence, a subtle but nice change.
4. The tone stack is now 2 x 0.022 OD and a 390 pF SM.
5. The coupling cap by the PI was changed from 0.001 to 0.0047 uF.

Questions:

1. Would changing the value of the slope resistor (to say 120 - 150R) be an alternative?
2. The CBC values were reduced (1st abd 2nd gain stage). Should I try to reduce CBC values elsewhere (where)? Bruce recommended not to go below these values (2.2 and 10 uF) and I believe he's right. The amp became a bit thin sounding with lower values.
3. The coupling caps (power tubes) were reduced. Should I try to reduce values elsewhere (where)?
4. I tried to replace the 220K grid load resistors by the driver with 120K. However, I believe that the head room decreased? Any comments?
5. Should I use the original value of the PI cap (0.001 uF)?
6. Would decreasing the bass pot value be an idea?
7. The tone stack is now 2 x 0.022 OD's. In earlier posts, Fred G and Gil states that this config promotes fartiness. Any comments?
8. I liked the "presence" cap mod, would there be any idea to alter the value?

9. Would it be of any interest to increase the value of the 100R NF resistor (with the 1 uF cap) to say 300R?
10. The treble is not a problem, but engaging the 120 pF cap (bright switch) does make the amp sound too shrill. Other values?
11. In a previous post, Bruce recommended a 0.0047 cap from the treble pot wiper to the volume pot. When I tried it I didn't notice any mayor difference – but maybe lost some sparkles? Bruce – comments? Wrong cap? I used a 715 OD.
12. In the same post, Bruce suggested to try a 39 and 1K combination on the phase inverter instead of the original 22/27K and 470/820R. I have not tried this mod and don't understand what it does. I would very much welcome an explanation. Does it have any mayor effect on bass response?

All inputs are very much appreciated!

Bjorn

START NEW THREAD	REPLY	PREVIOUS	LIST
From: SpeedRacer (Joe@ObsoleteElectronics.com)			
Date: 1/15/2001 6:57 PM			
Subject: Re: The definite cure for Fender Flatulence – any prescr			

FWIW..

I've always run the bass on my '65 SR around "3" or so, and this is typical for these amps (when you're cranking them up that is) Same with an old tweed Bassman.. The only Fender I got to run higher was my DR which can take around "5" before it loses control.. and even then, if I really want to go balls out, it's back to "3". It's how they were voiced. You can revoice them, but you'll lose some of the lower volume sweetness IMHO.

I wouldn't bother modding the amp, just roll it back.

To "open them up", some kind of pedal is the ticket IMHO. That, and finding the output tubes that will run at the lowest bias voltage (eg: where are you when you get to 35mA idle? -52V or -45V? -45V tubes will more drive to the outputs). I like the tube screamer type pedals for Fenders. Do yourself a mighty favor and get the "soundtank" series one (the cheap one - I've picked them up for \$35 retail!) and then have get Rick Erickson's mod kit for it. IT's unreal what his component swaps do for that pedal. (make it sound like an 808). I use exactly this set up and it just plain screams.

Fenders (in general) just a kick in the front end to get it going IME.

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From: Bjorn (bjola@ki.se)
Date: 1/15/2001 9:25 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

SpeedRacer,

Thank you for your reply. I guess you have a point. I have a Analogue Mike modded TS9. Unfortunately, I can't say I love the TS 808/9 although there are several heavy guys (like E.J.) that seems to love them including a lot of the guys hanging out here on AMPAGE.

I mostly use a Tone Pump from Dave Barber (a very nice pedal I think).

I wouldn't have posted this question if I didn't have the DR to compare with. Previously I always compared other amps to the SR but now the DR sounds so much better. I spent the last three days suffering from gastro-enteritis and used the time (when not puking) to try to improve the SR. But – as you stated – a nice pedal in front of the amp is also a nice solution (and fast).

Bjorn

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From: Gus (gussmalley@hotmail.com)
Date: 1/15/2001 9:25 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

Speed have you built the GCSoverdrive 1 transistor booster high in z with a mid boost. Simple and voiced with a strat and fender amp use a mpsa18 2n5088. I boosts and gives a SRV "snap" to the sound IMO. Aron has a link to it. I have a # of mods to the 5,7,9,10 I like the 7s it has a boost switch stock.

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From: SpeedRacer (Joe@ObsoleteElectronics.com)
Date: 1/16/2001 1:59 AM
Subject: Re: The definite cure for Fender Flatulence – any prescr

Thanks Gus - I can't say I've ever checked that one out (but now I will!)

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From: Aaron V. (carbon9x@hotmail.com)
Date: 1/15/2001 9:39 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

I don't have first hand experience tinkering with a SR, but...

3. The coupling caps (power tubes) were reduced. Should I try to reduce values elsewhere (where)?

You may want to change the coupling caps on the preamp tubes from 22nF to a lower value such as 10nF. IMHO this sounds better than lowering the cathode bypass caps too much...to my ears low values of bypass caps add an edge to the sound I'm not too keen on. YMMV. I know there are people on this board who prefer no cathode bypassing...

4. I tried to replace the 220K grid load resistors by the driver with 120K. However, I believe that the head room decreased? Any comments?

That's pretty much what to expect. One of the functions of those resistors is to act as loads for the phase inverter. With 220k, the pi may be able to swing 60Vp before clipping. Lowering them will reduce that swing before clipping occurs. But there's a tradeoff - the recovery of the power tubes when overdriven is a little longer with the 220k as opposed to 100k.

12. In the same post, Bruce suggested to try a 39 and 1K combination on the phase inverter instead of the original 22/27K and 470/820R. I have not tried this mod and don't understand what it does. I would very much welcome an explanation. Does it have any mayor effect on bass response?

Indirectly. Changing those values will alter the gain and headroom of the PI. When overdriving the power tubes the grids are being hit hard for a longer period with low frequencies compared to higher ones. Overdriving the power tubes sounds promising tone-wise, but when the grids are ac coupled this opens the possibility for some bad side-effects. It's like too much of a good thing.... Check out Randall Aiken's site or GEO for more in depth descriptions of what happens here. The bottom line is that lowering the gain of the PI a bit still allows you to hit the power section nicely, just in a more controlled way. Although, from your post it sounds like you're unhappy with the bass response, not the bias-shift effect or nose-diving load the PI sees when the grids go positive. Even if this isn't the solution you're looking for, you may like it anyway!

If I understand what you're looking for sound-wise, and what you're unhappy with currently, I think your answers will be found in the preamp....cathode bypass caps, coupling caps, the tone-stack...But they will all change the amp in different ways. It may just be like Speed says, and the bass needs to be rolled down all the time. Maybe an eq pedal before the amp will put you where you want to be...

Cheers,
Aaron

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From: Bruce (MissionAmp@aol.com)

Date: 1/16/2001 1:59 PM

Subject: Re: The definite cure for Fender Flatulence – any prescr

1. The CBC in the first gain stage (V2) were changed from 22 uF to 2.2 uF (the resistor changed from 1500R to 1K) and in the second gain stage to 10 uF.

That should be OK but when I do these mods, I also separate the Rk/Ck shared cathode combos. And for fun, try switching those Ck values around too. 10uF on the first stage and 2.2uF to 4.7uF on the second stage after the tone/volume pots. You might like that better.

2. The coupling caps from the driver tube were changed from 0.1 to 0.047uF.

That's OK here and you can even go down to .022uF to .033uF for a slight change if you really think the amp has too much bass response. I suspect it is not a singular thing but instead, a combination of the preamp tweaking, speakers, power tube bias and just your tastes.

3. The NF resistor was changed from 820R to 1K2. I kept the grounded 100R resistor (by the NF resistor) and bypassed it with a 1uF cap with a 1M Audio push/pull pot (Volume). A sort of fixed presence, a subtle but nice change.

Yeah, my brother Lew showed me that one. I like it too but keep in mind that the larger the bypass cap is, the more the NFB AC voltage is shunted off and there is none left! I have since been playing with the a larger NFB combination values, like 2k2/240 up to 3k9/330. The larger grounded resistor gives you a little more resistance to work with in terms of a presence cap.

4. The tone stack is now 2 x 0.022 OD and a 390 pF SM.

Others like the larger treble cap for more mid range but I think it can make these amps a bit too harsh sounding, I'm not using anything over 270pF right now and, a few of my customers seem to like a 220pF silver mica here.

After removing the stock bright cap, I have been using a 27pF-68pF cap wired across the volume control (all the time) and another 68pF cap wired to the bright switch.

5. The coupling cap by the PI was changed from 0.001 to 0.0047 uF.

Here's a good spot to mess with some more.

Try going to a good polypropylene .0022uF cap.

I think you should raise the grid load resistors of the power tubes back up too.

Since you are lowering the value of the coupling caps to the power tubes, you don't need to decrease the grid loads as far.

The .0047uF cap from the treble wiper to the volume control does roll off the extreme bottom end but is only a dB or so down at 80Hz or so.

Although, you should still hear a tiny difference, it's really just another way to keep the low harmonic rumble rolled down.

What speakers are in these amp?

I hate to steer you someway or another only to find out you have some odd speaker thing thrown into the mix!

Bruce

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From: Bjorn (bjola@ki.se)			
Date: 1/16/2001 7:10 PM			
Subject: Re: The definite cure for Fender Flatulence			

Bruce, Aaron and Speed

Thank you for your lengthy answer – very good info, as always...

I'll try some of the mods proposed and get back with the results.

Re to Bruce:

“That should be OK but when I do these mods, I also seperate the Rk/Ck shared cathode combos”.

Yes, I did that previously.

“What speakers are in these amp?”

Jensen RI P10R (from Ted Weber).

“I think you should raise the grid load resistors of the power tubes back up too”.

The grid loads are 220K.

Thanks again!

Bjorn

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From: kidblue (kidblue@earthlink.net)			
Date: 1/16/2001 9:18 PM			
Subject: Re: The definite cure for Fender Flatulence			

I have tried to accomplish the same thing with my super reverb and I finally got it to do what I

wanted by leaving the low end clear and the high end breaking up. I didn't like it at all...way to harsh, brittle and fizzy. I put my amp back to stock and keep the bass no further above 4. I've never been happier with my tone than I am now. Just to help though...here is what I did:

change the filtering on the power tubes to 110uF
solid state rectifier
silverface values on the grids 68k power tubes, 47k phase inverter
.68uf on driver
4.7uf on recovery

I didn't want ANY low end to break up, and I got it at the expense of having no midrange harmonics like before when it was stock. It'll sound way fatter if you leave that amp at stock values and just turn down the bass knob.

kidblue

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From: Bjorn			
Date: 1/18/2001 10:45 AM			
Subject: Re: The definite cure for Fender Flatulence – any prescr			

Bruce

You said: "I have since been playing with the a larger NFB combination values, like 2k2/240 up to 3k9/330. The larger grounded resistor gives you a little more resistance to work with in terms of a presence cap".

What can I say, that piece of information was dead on. BEAUTIFUL! Thank you!
The 2K2/240 value worked best for me (hard values to get in carbon comp though – I hate to put in something else, the amp is so beautiful inside...).
Have you messed around with other cap values?

Again thanks!

Bjorn

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From: Trace (voodooamps@aol.com)			
Date: 1/21/2001 3:03 PM			
Subject: Fender Flatulence....			

I assume you did the BF mod to the amp to start with(?) For some reason I got that impression from the post but I could be wrong. Speedracer had some good suggestions, Fender's are bottom heavy when you crank them up (generally speaking).

:Mods performed:

1. The CBC in the first gain stage (V2) were changed from 22 uF to 2.2 uF (the resistor changed from 1500R to 1K) and in the second gain stage to 10 uF.

The 2.2uF is cool, 22uF can be a bit "over the top" when the amp is cranked as far as the low-end goes. It gets a bit mushy at times but it also depends on what kind of pickups you are using (single coil/humbuckers) and also what kind of guitar you are using. You might try replacing the 10uF with a 1uF and see how it sounds.

2. The coupling caps from the driver tube were changed from 0.1 to 0.047uF.

If you are going to crank the amp to get some natural gain (w/o a distortion pedal) you could try .022's for the coupling caps.

3. The NF resistor was changed from 820R to 1K2.

You won't really hear all that much difference with such a small value change here, at least not in the FB section. You would hear more of a difference if you were making small changes to the bypass caps but the FB section is a bit different in that way.

4. The tone stack is now 2 x 0.022 OD and a 390 pF SM. 5.

That sounds cool...

The coupling cap by the PI was changed from 0.001 to 0.0047 uF.

Lot's of people like this value here. Some people prefer the .022uF here. If you want to lower the coupling caps through out the preamp to .022's (if there are any .047's for example), you can also lower the bypass caps from 22uF to around 1uF, you can try the .022uF coupling cap and it tends to work out better. It's a thought (ha, ha)

Questions:

1. Would changing the value of the slope resistor (to say 120 - 150R) be an

alternative?

120K or 150K is going in the wrong direction but that's just my opinion. What kind of tone are you shooting for? Can you list a few tunes with the tone you are going for?

2. The CBC values were reduced (1st and 2nd gain stage). Should I try to reduce CBC values elsewhere (where)? Bruce recommended not to go below these values (2.2 and 10 uF) and I believe he's right. The amp became a bit thin sounding with lower values.

Up the coupling cap going to the PI's grid from 500pF to .022uF and that will cure the thinness. It will sound much more robust and full sounding (IMO)

5. Should I use the original value of the PI cap (0.001 uF)?

It'll sound thinner for sure but that's a personal preference call on that one (ha, ha).

6. Would decreasing the bass pot value be an idea?

You can try but usually this doesn't solve the problem. You can simply turn the existing pot down as Speedracer mentioned.

7. The tone stack is now 2 x 0.022 OD's. In earlier posts, Fred G and Gil states that this config promotes fartiness. Any comments?

As opposed to the 250pF/.047uF/.1uF combo? The .022's would "smooth" things out more in my opinion.

8. I liked the "presence" cap mod, would there be any idea to alter the value?

No matter what value you put there it's not going to cure the low-end farty bass you are disliking. Generally speaking you need to look at the values of the coupling caps, bypass caps, and tone stack. A GREAT deal of the frequency shaping deals with those three areas.

The treble is not a problem, but engaging the 120 pF cap (bright switch) does make the amp sound too shrill. Other values?

120F is shrilly indeed. Again, if the top end isn't the problem then don't look there to cure the low-end problem...

- 1.) Start by reducing the coupling caps (if the are .047's) to .022's (simply as a starting point)
- 2.) Then try reducing all the 22uF bypass caps to 1uF (as a starting point - you can always go up from there).
- 3.) Try a 250pF (or up to 470pF)/.022uF/022uF tone stack set up (as a starting point)
- 4.) THEN see needs to be tweaked/added/subtracted, etc. An amp is a sum of ALL it's parts combined. One part change typically doesn't solve the problem.

When a Fender is on "3" it sounds pretty darn good...if you want to go above "3" on the volume pot then you'll be getting a lot more break up the higher you go on the volume pot.

Gain tones (IMHO) don't typically work well with 22uF bypass caps or .047uF coupling caps (again, generally speaking). It tends to swamp the circuit with bottom-end and usually the end result is farty low-end.

How is the PI wired exactly? The PI is pretty critical in the tone when you are cranking a non-master amp up.

This is just my opinion and it doesn't mean I'm right or wrong. Experiment and see if this gets you closer to start with. It all depends on the tone you want to hear! 😊

Trace

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From:	Bjorn (bjolar@ki.se)
Date:	1/21/2001 8:02 PM
Subject:	Re: Fender Flatulence....

Trace,

Thank you VERY much for that lengthy answer. The amp is a BF DR. I do run it with 6L6 and a SS rectifier (the filter section is beefed up a bit). I run the power tubes at 36 mA.

I'll try your suggestions and get back with the results.

One more thing:

When testing different values in "Duncan's Tone Stack Calculator", it seems that the combination (middle) 22nF, (Bass) 100nF gives the least bass response. The 22nF x 2 seems to give a robust peek at approx. 70 Hz. Any comments to that?

Thanks again!

Bjorn

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From:	Trace (voodooamps@aol.com)
Date:	1/21/2001 10:09 PM
Subject:	Re: Fender Flatulence....

When testing different values in "Duncan's Tone Stack Calculator", it seems that the combination (middle) 22nF, (Bass) 100nF gives the least bass response. The 22nF x 2 seems to give a robust peek at approx. 70 Hz. Any comments to that?

As opposed to the .1uF/.022uF combo? You can run with what ever sounds best to your ear. I prefer the pair of .022uF's in Fender's myself but that's just my preference. You may like the .1uF/.022uF combo. Try it and see what you think.

If you like Albert King/B.B. King tones then you may want to try the pair of 47K plate resistors on the PI tube. Their tone was pretty clean most of the time. With the stock PI set up you'll be hitting the PI tube pretty heavily when you crank the amp up to higher volume levels.

Also try playing with the value of the .1uF on the bottom side of the PI (in the schematic that is). Try a .047uF or .033uF, this has a lot of effect on the bass as well.

Trace

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From:	Gil Ayan (ayan@earthlink.net)
Date:	1/26/2001 4:14 PM
Subject:	Re: Fender Flatulence....

*One more thing:
When testing different values in "Duncan's Tone Stack Calculator", it seems that the combination (middle) 22nF, (Bass) 100nF gives the least bass response. The 22nF x 2 seems to give a robust peek at approx. 70 Hz. Any comments to that?*

The best thing you can do is try things out. I still maintain that two .022uF caps for bass and middle have the potential to make the amp boomier and fartier than the .1uF bass and .047uF combination.

We have gone back and forth on this many times here, and I think the conclusion is that the

voicing of the bass is different with the .022uF caps, such that *by tweaking the tone controls differently*, you can achieve some low end without as much fartiness. However, if you set the controls identically, the .022uF pair will definitely pump more low end, and the reason is trivial: the middle cap dumps signal to ground in a Fender tone stack. A larger cap will dump lower frequencies than a smaller one, as simple as that. The bass cap, although important as well, is not as crucial as the middle cap.

Gil

START NEW THREAD	REPLY	PREVIOUS	LIST
From: Bjorn (bjola@ki.se)			
Date: 1/26/2001 7:48 PM			
Subject: Re: Fender Flatulence....			

Gil, thank you for your reply.

I think the main problem this time was the that NFB probably was non existing. Bruce was right on the money. Increasing the resistors (bypassed by the 1uF cap) cured a lot of the ugly sounds. I tested several different values in the tone stack as well as fiddling with CBC-elyts and the PI cap.

I think you are right, maybe the 2 x 0.022 uF in the tone stack ads a bit farting but the balance is better, I think.

Reducing the CBS's below 2 uF seems to thin the sound out.

I have not tested to further reduce the coupling caps from the driver tube below 0.047uF, maybe that is an other way.

Surprisingly, a larger PI cap value (0.022) seems to "remove a blanket" from the amp. Of course there are more mids and some more bass as well, but not disturbingly so. The amp does sound fuller but also clearer. I have not tested this above 5 in volume yet (my family do not understand why I have to play so damned loud late at night...)

Bjorn

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From: Ed Rembold (emsas@gte.net)			
Date: 1/26/2001 10:14 PM			
Subject: Re:TSC tip			

When using Duncans TSC, I Always put a "post-it" note on the computer screen to "block" out the screen to the left of 80hz. (I also put one at approx. 7000hz to block out everything higher.)If you do this, and then sub out the .1 and .047 caps for a pair of .022's you will "see" what Gil is talking about- so much better! the .022's give much more bass.

Ed R.

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From: Gil Ayan (ayan@earthlink.net)
Date: 1/26/2001 11:07 PM
Subject: Re:TSC tip

*When using Duncans TSC, I Always put a "post-it" note on the computer screen to "block" out the screen to the left of 80hz. (I also put one at approx. 7000hz to block out everything higher.)If you do this, and then sub out the .1 and .047 caps for a pair of .022's you will "see" what Gil is talking about- so much better! the .022's give much more bass.
Ed R.*

Ed, use the snapshot feature of the Duncan tool and you can see both plots at the same time. The dual .022uF has a LOT more bass to it, and the ultimate test is to listen to the amp with boths sets of caps in, leaving the pots at the same setting.

Gil

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From: Bjorn (bjola@ki.se)
Date: 1/21/2001 8:16 PM
Subject: Re: Fender Flatulence....

Oh, I forgot, you asked what sound I was after. I would like (but don't) sound like Freddie King or BB king.

I can't decide which guitar I love, I play a MIJ Stratocaster but almost always ends up with a Gibson with PAF's. When on the subject I wouldn't mind sounding like Clapton in Mayall's Bluesbreakers – but that' another amp...

Bjorn

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From: Ben S (bms@qx.net)
Date: 1/31/2001 3:28 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

Have you ever tried running the amp into a closed back cabinet????

Just a thought, Ben

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From: Bjorn (bjola@ki.se)
Date: 1/31/2001 9:35 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

Thank you for your comment - this would probably rectify the problem - but, even though I do "hack" a little I do want the amp to look just as it is - stock (BF SR). In this specific case I think it was the lack of NFB that caused the problem.

Thanks again!

Bjorn

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From: Ben S (bms@gx.net)
Date: 1/31/2001 10:18 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

I know what you mean about not hacking coll amps. I agree.

I'm sorry I missed the NFB thing the first time I read this thread. Cool to have it fixed though, huh?

I love it when stuff works out right, Ben S

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From: Bjorn
Date: 2/1/2001 11:35 PM
Subject: Re: The definite cure for Fender Flatulence – any prescr

\q{: Cool to have it fixed though, huh? I love it when stuff works out right, Ben S

Yes, it sure is. Love this place!

Bjorn

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