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Peavey classic 30 footswitch not working

The footswitch on my Peavey classic 50 doesnt work. I'm wondering if anyone can point me to a schematic or if anyone has any ideas as to what might be the problem. It does nothing. It looks like the plug was repaired once. It ohms out fine. I resoldered the connections (they were done poorly) but still no go. I'm wondering if anything inside the amp could cause it not to work. I've got another thread on the reverb not working. I'm wondering...does the footswitch have to be plugged in for the reverb to work? Maybe reverb is fine and footswitch is just bad. Reverb should work without the footswitch, you have a problem on the board if the pan and the wire to and from the pan are good. Possibly the reverb driver ic 4558 or the fet transistor in that circuit. Reverb should work without the footswitch, you have a problem on the board if the pan and the wire to and from the pan are good. Possibly the reverb driver ic 4558 or the fet transistor in that circuit. Thanks. Thats a theory I posed in another thread. DO you know where on the board these are? Don't know for sure but the ic and fet transistor should be next to where the reverb cable plugs into the board. I would swap the ic first because it's easy to find and is probably in a socket, but the fet will have to be unsoldered from underneath which means the board will have to come out. Don't know for sure but the ic and fet transistor should be next to where the reverb cable plugs into the board. I would swap the ic first because it's easy to find and is probably in a socket, but the fet will have to be unsoldered from underneath which means the board will have to come out. Cool. Thanks. Isnt the 4558 the same as whats in a tube screamer? I think I have some of those around. If that works..then its just trying to figure out whats up with the footswitch for channel changing. Anyone else on why the footswitch may not be working? What is not working, reverb or channel switching? Never mind I just read the post above. If the channel changes with the switch on the front/top panel that means the relays are working and the problem seems to be in the footswitch wiring or maybe jacks and wiring at the amp. Is this a Peavey footswitch and has any rewiring been done? The channel does change with the switch on the top of the amp. However, it wont work with the footswitch plugged in. Yes, the footswitch has been worked on. Mainly the plug. I wish i had a schematic of what its supposed to look like. The plug is a 3 conductor. The center lug and case appear to be connected to ground. A couple of points, the channel switch button on the chassis will have to be switched to lead channel before the footswitch will work, at least in a classic 30 it does. If your footswitch is a 2 button switch for channel and reverb on and off the tip off the plug should be for the reverb, ring for channel and obviously the sleeve for ground. Check to make sure that the tip and ring are grounded when you step on the footswitch. If you had the tip and ring reversed it would work but the reverb switch would now change the channel, etc. If you have a vom check for continuity swithes to plug to make sure you don't have a break in the wire. Remember, one side of the switches would be grounded, the other side of the switches would go to tip and ring, sleeve being grounded. If all that is good you should be changing channels and turning reverb on and off. This is likely a real fringe case, but I bought 3 foot switches trying to work through a similar problem only to find that the tip from a quarter inch jack had broken off (the previous owner) and lodged itself in the jack. Oddly, I could plug another jack in... but the switch never worked. Ended up taking the amp apart to find it. A couple of points, the channel switch button on the chassis will have to be switched to lead channel before the footswitch will work, at least in a classic 30 it does. If your footswitch is a 2 button switch for channel and reverb on and off the tip off the plug should be for the reverb, ring for channel and obviously the sleeve for ground. Check to make sure that the tip and ring are grounded when you step on the footswitch. If you had the tip and ring reversed it would work but the reverb switch would now change the channel, etc. If you have a vom check for continuity swithes to plug to make sure you don't have a break in the wire. Remember, one side of the switches would be grounded, the other side of the switches would go to tip and ring, sleeve being grounded. If all that is good you should be changing channels and turning reverb on and off. Found wire to ground was broken on the footswitch. It was really hidden so you never would have known it was there unless you ohmed out the switches and realized...hey..theres not ground. Thanks!! I used to have a Peavey Classic 30 that had switchable distortion and reverb. However the included footcontroller lacked LED indicators to tell if the dist/reverb was on or off. There are LED-equipped footswitches on the market, and I even believe Peavey's newer versions have LEDs. Well, why spend money on a new switch when you could simply get into DIY-mode? The circuit used here isn't guaranteed to work on all amps, but if the amps uses relays for the switching, chances are this should work on other amps as well. Be sure to check polarity on the footswitch jacks. The Peavey switch connects to the amp via a cable with two wires + what appears to be a common ground in it. However, the naked wire is actually the positive supply, and the two other wires supply current to the relays for distortion and reverb. Roughly like this: So it's really just two spst (1xon/off) switches that turn on the current to the relay coils. The key word here is current. The coils need a certain current to achieve a sufficient magnetic field an thus be able to move the mechanical switch in the relay. Now, as I actually don't own the amp anymore, I'm not that sure about the numbers here, but I measured the voltage from +V to coil with switch open, and I think it was around +30V. The more important thing however is the current, the currents were slightly different for the two relays, but both were somewhere around 20-25 mA. I'm not sure how much the relays need, but this is important as the leds used were rated at max 30 mA, and now there's no need to add series current-limiting resistors. I opened the switch by removing the bottom plate. It wasn't glued or anything, so a sufficient amount of brute force worked fine. The only thing I needed to do was to add LEDs in series with the switches. Like this: The naked conductors need some sort isolation of course, normal electrical tape works fine. Done! As I sold the amp after finishing the mod, I never got to test it on a gig. But it worked just fine at home, and as long as the LEDs don't fail, I'm sure it will go on working fine. (if a LED fails there will be problems, as they are in series with switches. But not harder to fix than replacing the LED, they are really cheap) Update: part layout and schematic picture: Good day, I have a 20year old peavey classic 30 it started to give me frying bacon sound. So I re-cap all the big caps, the frying sound was gone and it played like new! except that I seem to have lost the reverb. I checked the tank, I don't see any broken wires. I checked the resistance on the output about 200ohms and 60ohms in the input. I tried the tank on my Fender Blues Deluxe. it uses the same accutronics tank but with a 20ohm input instead. still it (classic 30 accutronics tank) worked fine with the blues deluxe. I plugged the tank again in the classic30, double checked input and output reverb cables to make sure i didnt reverse them. checked cables for continuity and they do. still no reverb. I tried to tap the tank, usually it gives a boing, but it did not. instead it gave a thud static sputtery sound like plugging/unplugging your guitar cable on a cranked amp. just for kicks, and to check if the return is working, I fed music by iPhone's headphone out to the reverb's return circuit. well i heard the music coming out of the classic30, but I have to crank the phone's volume otherwise when it's below 80% volume, it gives me that same sputtery sound like tapping the tank previously. I am stumped. last trick up my sleeve was to change the IC 4558. i have lots of jrc4558 from the od builds, still no go. I'm about to feed a reverb pedal in the effects loop but as much as possible i'd like to have the builtin reverb working. what else do I need to check on the reverb circuit? all I can see in the recovery are some electrolytic caps, a big 1 watt resistor and a j202 fet right before the reverb pot. anyone knows where else to look? Thanks! It sounds like you have a broken connection in the return circuit input, probably the ground. It's very easy to break a jumper wire in a chassis that is so compacted like that one is. Follow the signal from the return input and see if you can find broken connection. Following IC1 4558 is a series FET (a J231) Perhaps it's bad. Though I agree with 52 Bill ^^^^^ as it sounds like you did have Reverb before pulling the amp apart, and now you don't. Logic is an organized way of going wrong with confidence Thanks for the tips! Makes sense. I did have some problem after the re-cap where I did not get any sound from the preamp section. I can hear the channel switch popping, and I can plug the guitar direct to the fx return power section and sound came out fine. Turns out the pin 4 heater of V1 has a bad connection to the jumper wire connected to + of the big 2200uf 50v cap(c45). I fixed that jumper (jp504) but did not check the others. I'll check the grounding around the reverb as well as swap out the j202. Hoping to fix this finally. Will report soon I too suggest looking for one of the many short bare wire jumpers being broken. Education is what you're left with after you have forgotten what you have learned. Did all the suggestions above, this time I traced almost everything from the input until the power section. All the earth ground, chassis ground and that other ground symbol with a circle. then I checked the whole reverb circuit from the relay back to the pin 7 grid of v1b. checked all the grounds in the reverb circuit. all the -30v and -15v connections, they were good. i reinforced all the jumpers. this took two days lol, took my time reinforcing the jumpers on the pot side then had a break because I wanted fresh eyes and hands for jumpers on tube side. In short, i was patient because I don't want to open this amp ever again lol. Lastly, I changed the J231 jfet. actually mine had J202 stock, so I replaced it with a J202. Results, I got the reverb back, but it is so subtle. i don't remember it being this way when stock. I slap on the guitar string and I can hear the reverb when I'm close to the speaker, and this is with the reverb knob on max 12. Before the reverb went kaput on me, the reverb will be really loud at around 3 -6 (halfway) of the knob, then it will pick up a really low hz humming feedback, then I would turn down the reverb maybe around 2-3 marker of the knob. still those settings were louder than the max I got now. old humming reverb's 2 is equal to Now at max 12 Now i'm thinking, was this the stock reverb of the classic 30 very subtle, and the super loud low hz feedback reverb I had before was the "broken" version? I can try putting a cmy headphone amp between the tank and the output jack, but is there any resistor or cap in the rebound circuit I can tweak to make the effect louder? thanks!!! The circuit does not need to be modified to work. Pull the return cable from the pan OUTPUT jack, and touch the tip of it with a finger. Is that hum loud and strong? Do we now have the correct EB type pan in the circuit? And inside it all the innards are moving freely, no foam block on the springs etc? Just to check, play into the amp as normal with the reverb drive connected, but instead of connecting the return cable. connect the pan OUTPUT to some other amp. IS the signal strong over there? The low sound is acoustic feedback through the pan. Worry about that later. We get the basic reverb function back to strong first. You changed Q1, but is it now turning off and on fully? Short across it source to drain, does that restore full reverb? Is there any gate voltage there? Your reverb defaults to ON by way of teh grounded shunts in the footswitch jack. Are those contacts clean and solid? Education is what you're left with after you have forgotten what you have learned. Originally posted by Enzo View Post The circuit does not need to be modified to work. Pull the return cable from the pan OUTPUT jack, and touch the tip of it with a finger. Is that hum loud and strong? I did this test when I lost the reverb and i remember the hum was not loud. Sounds like a fizz. Will try it when I get back to the amp Originally posted by Enzo View Post Do we now have the correct EB type pan in the circuit? And inside it all the innards are moving freely, no foam block on the springs etc? Yes Its the stock 4eb2c1b. Has 200ohm for output and about 60ohms for the input. I know I didnt mix it up with the fender blues deluxe's. Yes springs moving free as far as I can tell. Although I read this tank should be mounted vertically, I had it lying down since I got it ages ago Originally posted by Enzo View Post Just to check, play into the amp as normal with the reverb drive connected, but instead of connecting the return cable. connect the pan OUTPUT to some other amp. IS the signal strong over there? Will do this too Originally posted by Enzo View Post You changed Q1, but is it now turning off and on fully? Short across it source to drain, does that restore full reverb? Is there any gate voltage there? Your reverb defaults to ON by way of teh grounded shunts in the footswitch jack. Are those contacts clean and solid? Thanks for this suggestion, I feel stupid. Was that jfet just an on and off switch controlled by the footswitch? Because if it was I shouldn't have replaced it and shouldve bypassed it instead. Connecting c23 direct to the reverb pot. I did'nt care about the footswitch anyway. I havent checked that footswitch jack, but if it's dirty I can just connect a plug with the tip shorted to the sleeve right? Now that I'm looking at a Delta Blues schematic, It doesnt have that jfet and all that other components found in the classic 30f. from c30 22uf cap to the big r33 1.5k 1watt resistor. What's prone to failing here? Can that 1n4148 diode short out by a surge from a bad resistor? Nothing is "prone to failing" here. The Delta Blues is the same amp as the C30, but it doesn't have foot switchable reverb, the reverb there is always on. So they didn't include the footswitching circuits. If you don't care about FS turning off reverb, then pull the JFET and put a jumper wire in its place. Surge from bad resistor?? Just do straight troubleshooting - isolate the problem. The JFET either is or is not killing the signal. Just find out. We need not waste time trying to decide what is prone. WHEN the electronics fails in this reverb circuit, by far the most likely thing is the IC. Any other part CAN fail but not very often. Education is what you're left with after you have forgotten what you have learned. I know you would prefer to not flex the jumpers again. If Q1 is accessible and you want to bypass the reverb switching, just jumper the drain leg to the source leg with a wire, and clip the gate leg. "Everything is better with a tube. I have a customer with an all-tube pacemaker. His heartbeat is steady, reassuring and dependable, not like a modern heartbeat. And if it goes wrong he can fix it himself. You can't do that with SMD." - Mick Bailey Haven't had time to open the amp again, but I did several tests from the outside. 1. Touched the rca of the return - hum is loud, was not able to record this though 2. Connected the reverb tank's input from c30's driver, then the tank's output to a different amp (Fender BD) > reverb signal came out fine out of the Fender BD while dry signal from the c30 3. checked the footswitch jack, they're good. Also inserted a plug with tip shorted to sleeve, same subtle reverb on max. 4. Plugged the Guitar jack to the reverb's RECOVERY circuit via the Return RCA. same sputtery distorted sound > 5. Reverb tank's output plugged normally to the recovery circuit. This was the sputtery sound I had before, but better than the last time. On my first post when I move the springs like this they sounded like pulling a Guitar plug from the jack > 6. here the Reverb Tank's output is plugged direct to the amp's guitar INPUT. This is the boing sound I'm used to. > 7. Here's the subtle reverb, you can't even hear it on your speakers but probably with headphones on. but It's there I'm not imagining it haha > nothing valuable since I haven't opened the amp. I'll deal with the Q1 soon. reluctant to succumb to Murphy's law everytime I take out that 3pc board to be honest lol. Just enjoying the tone for now after the re-cap, and the bright cap on the pre-gain pot. everyone seem to be taking out those bright caps in their Fender's but it's adding the right amount of shimmer on this Peavey. It appears that you have proved that the circuit works through the pan. Up next is the output from U1B/ pin 7. After that is C23 & the JFet. I would do as suggested & remove Q1 & jumper across pins 2 & 1. peaveyclassic30 Rvb Circuit.pdf Edit: Q1 Pins 2 & 1 Last edited by Jazz P Bass: 10-29-2018, 06:02 AM. Originally posted by severthee View Post 5. Reverb tank's output plugged normally to the recovery circuit. This was the sputtery sound I had before, but better than the last time. On my first post when I move the springs like this they sounded like pulling a Guitar plug from the jack > So you still have the same sputtery sound thru the Return circuit for the Reverb. When you rotate the Reverb pot, in this condition, does the pot sound gritty? If so, rack the pot back and forth a whole lot....might just be a dirty pot. If that isn't the case, then we're homing in on the circuit causing the issues, as the Send to the Reverb Tank is good, and sounds normal coming back thru a different amp. Could be the IC U1, could be any of the components. Input cap C22, output cap C23, Gain network cap C29, output load network C30. I agree with removing Q1, replacing with a jumper across pins 2 & 1 (pin 3 is gate). Logic is an organized way of going wrong with confidence Originally posted by nevetslab View Post So you still have the same sputtery sound thru the Return circuit for the Reverb. When you rotate the Reverb pot, in this condition, does the pot sound gritty? If so, rack the pot back and forth a whole lot....might just be a dirty pot. If that isn't the case, then we're homing in on the circuit causing the issues, as the Send to the Reverb Tank is good, and sounds normal coming back thru a different amp. Could be the IC U1, could be any of the components. Input cap C22, output cap C23, Gain network cap C29, output load network C30. I agree with removing Q1, replacing with a jumper across pins 2 & 1 (pin 3 is gate). Yes correct! the reverb pot sounds gritty when turning from 0 to 12. gritty parts are somewhere halfway. If I'm taking out Q1 , I can just disconnect the output load c30 22uf 25v capacitor right? I don't see this capacitor in the delta blues schematic. I'm opening up the amp tomorrow, and will update. Thanks for everyone's suggestion, really appreciate it. I only know how to read schematics but not the theory and implementation on how most of the components work dumb i thought that jfet was used as a boost because that's how I was using them for some pedals Last edited by severthee: 10-29-2018, 03:13 AM.



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