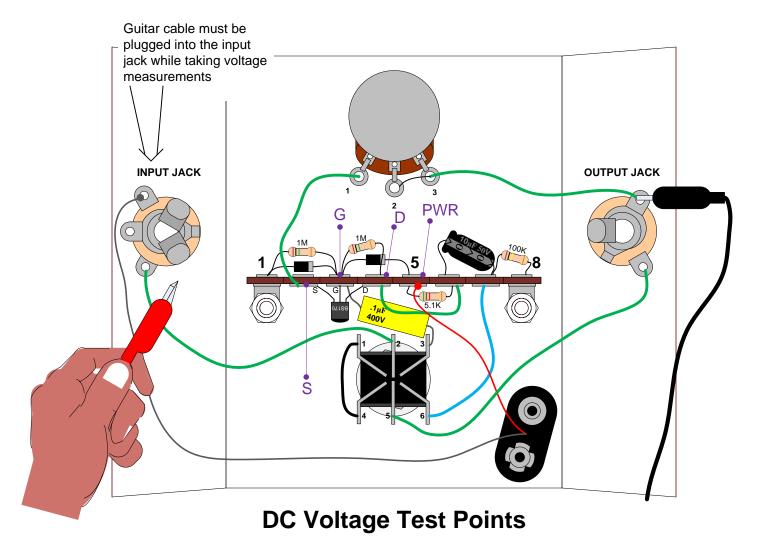
## Use this troubleshooting supplement to help:

• Measure DC voltage test points to identify major discrepancies and locate problem areas.

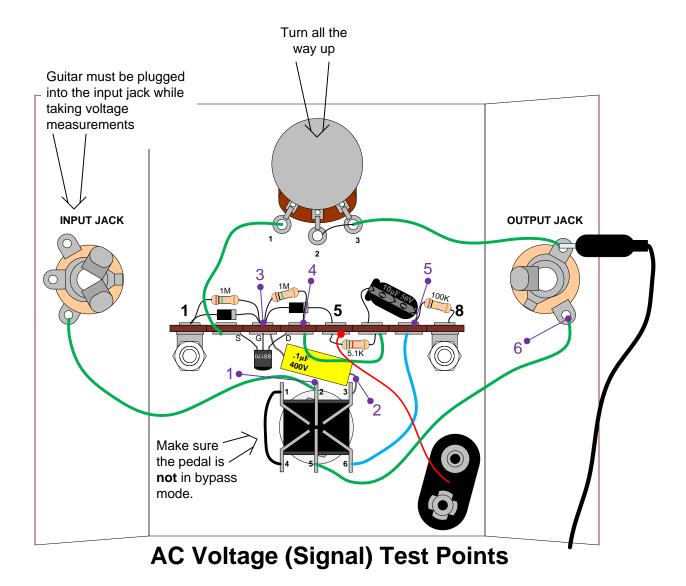
(Keep in mind that the voltage measurements will vary slightly from kit to kit. The voltages you measure should be in the same ballpark, but do not expect to get the exact same value.)

Using a volt meter, connect the ground side lead of the meter to any ground point on the pedal. One ground point would be the output jack's ground lug. The other volt meter lead will be used to measure DC voltage at the test points shown below.

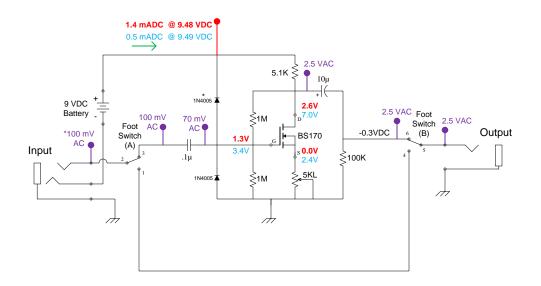


First, plug a guitar cable into the input jack and take measurements at each test point with the control turned all the way down (min gain) taking note of each measurement. Next, take measurements at each test point with the control turned all the way up (max gain) and take note of each measurement. Any major differences between the voltages listed above should indicate a problem area.

Measured at Minimum Gain	Measured at Maximum Gain	
S = 2.4 VDC	S = 0.0 VDC	
G = 3.4 VDC	G = 1.3 VDC	
D = 7.0 VDC	D = 2.6 VDC	
PWR = 9.49 VDC	PWR = 9.48 VDC	

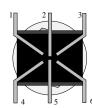


Connect your guitar to the input jack and take AC voltage measurements at each test point with the control turned all the way up. At each test point, the AC voltage should increase dramatically each time you strum the guitar. (No strum = 0.0 VAC, Hard strum = anywhere from 10 mV to 3 V).



\*AC voltages were measured while strumming an open E chord on a Mexican strat in neck pickup position with volume and tone controls at max.

**DPDT Foot Switch** 



BS170 N-Channel MOSFET



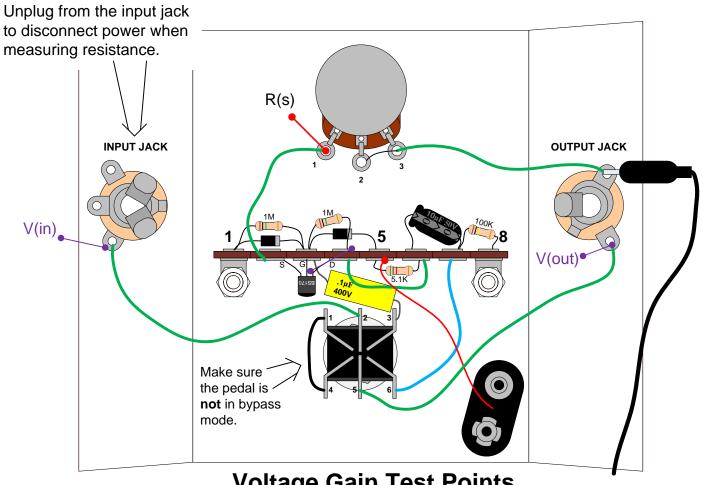
**BOLD** = DC measurement at maximum gain PLAIN = DC measurement at minimum gain

\*Diodes are there to protect the MOSFET from static and accidental reverse polarity.



"The PileDriver" (K-920) Schematic

R(s) = Resistance from Source to Ground.	V(in)	V(out)
4.86K	.16 VAC	.16 VAC
2.42K	.16 VAC	.24 VAC
1.22K	.16 VAC	.45 VAC
0K	.16 VAC	2.60 VAC



**Voltage Gain Test Points**