

Rig DC Power & RF Hazards

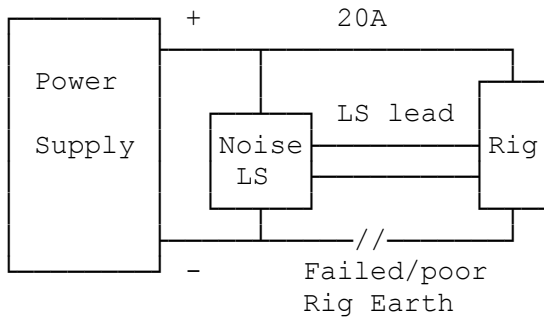
By G8MNY

(New Feb 12)

(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

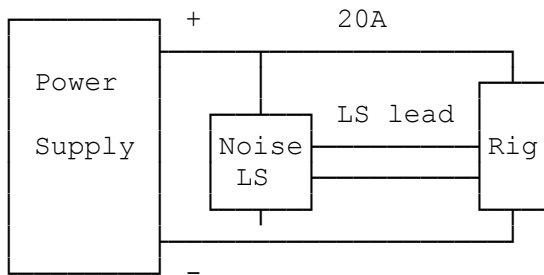
With connection to add ons to to your rig there is a hazard that can burn out or damage ground wiring in your... PC, Noise Eliminating LS, Preamps Powered Auto ATUs, & rotators etc.

The cause is high DC or RF currents being allowed to flow over signal leads cause by faulty earths & earth loops.

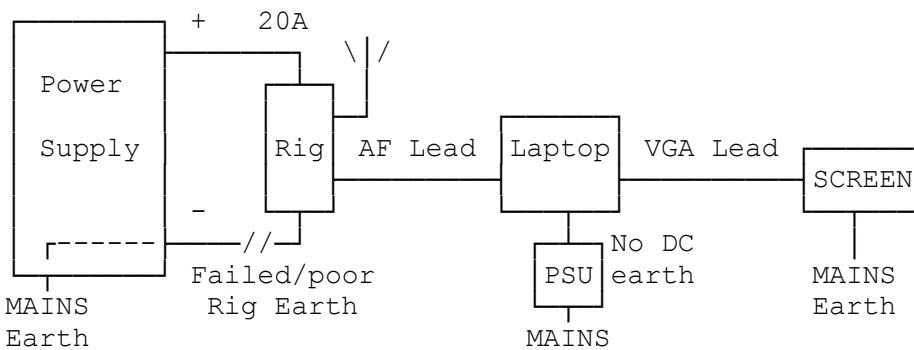


In this example the rig is earthed only via the LS.  
 Damage can be to..  
 Rig LS socket wiring,  
 Rig PCB,  
 LS lead,  
 Noise LS PCB,  
 Noise LS Power lead.

Using no PSU earth connection & only earthing via the rig connection is a possible cure for low current accessories.



In the next example there is both DC & RF problems.



DC can damage...  
 PSU earth wiring & Mains lead,  
 Rig AF socket/PCB,  
 AF lead, Laptop mother board,  
 VGA lead, Screen, & Screen power lead.

If there is no DC fault but RF voltage on the rig, RF currents can damage..  
Rig AF socket/PCB,  
AF lead, Laptop mother board,  
Laptop PSU's mains RF filter,  
VGA lead, Screen.

See my Tech Buls on "BHI Noise Eliminating DSP LS", "A Simple V.O.X. Circuit",  
"PSK31 interface isolation".

Y Don't U send an interesting bul?

73 de John G8MNY @ GB7CIP