Q. Whenever I turn on both my AM

ference?

FLUORESCENT LAMP FILTER

radio and my fluorescent desk lamp, "hash" comes out of the speaker. Is

A. R-f coming from the lamp can get into the radio by direct radiation or

lamps up to 35 W, use two Miller 6304 coils in parallel for the required 2.5-mH inductors. Bypass capacitors

there any way to eliminate this inter-

-D. Rigg, Southampton, NY

problem persists, it will be necessary to shield the lamp housing with finemesh screening. Ground both the screening and lamp base (if metal).

and the feedthrough capacitors should be Allen-Bradley CL003-

HA503P units or equivalent. If the

through the ac line cord. The filter 000 .0015µF 0015uF shown, when constructed in a metal

box connected to a good ground, will take care of r-f on the line cord. For

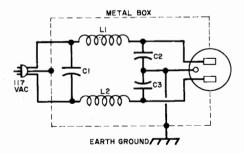
should be 500-WVDC disc ceramics, **NOVEMBER 1975**

SW RECEIVER LINE FILTER

Q. Is there a filter I can make to clear up the interference on my shortwave receiver? Whenever a vacuum cleaner, shaver, or hair dryer is used, the entire dial is filled with "hash."

-Mark Papuga, Park Ridge, IL

A. The line filter shown will help. *L1* and *L2* are 2-inch windings of 16-gauge enameled wire wound on a half-inch diameter form. *C1* through *C3* can be anywhere between 0.001-and 0.01-μF, 200-V disc ceramic capacitors (capacitance not critical, but use the same value for all three). Assemble the filter in a metal box and connect it to a good earth ground. Plug the filter into the wall, and connect the receiver line cord to the filter



socket. If this doesn't clear up the interference, try to isolate the appliance generating the noise and install the filter between it and the wall socket. Also, ground the receiver chasis.