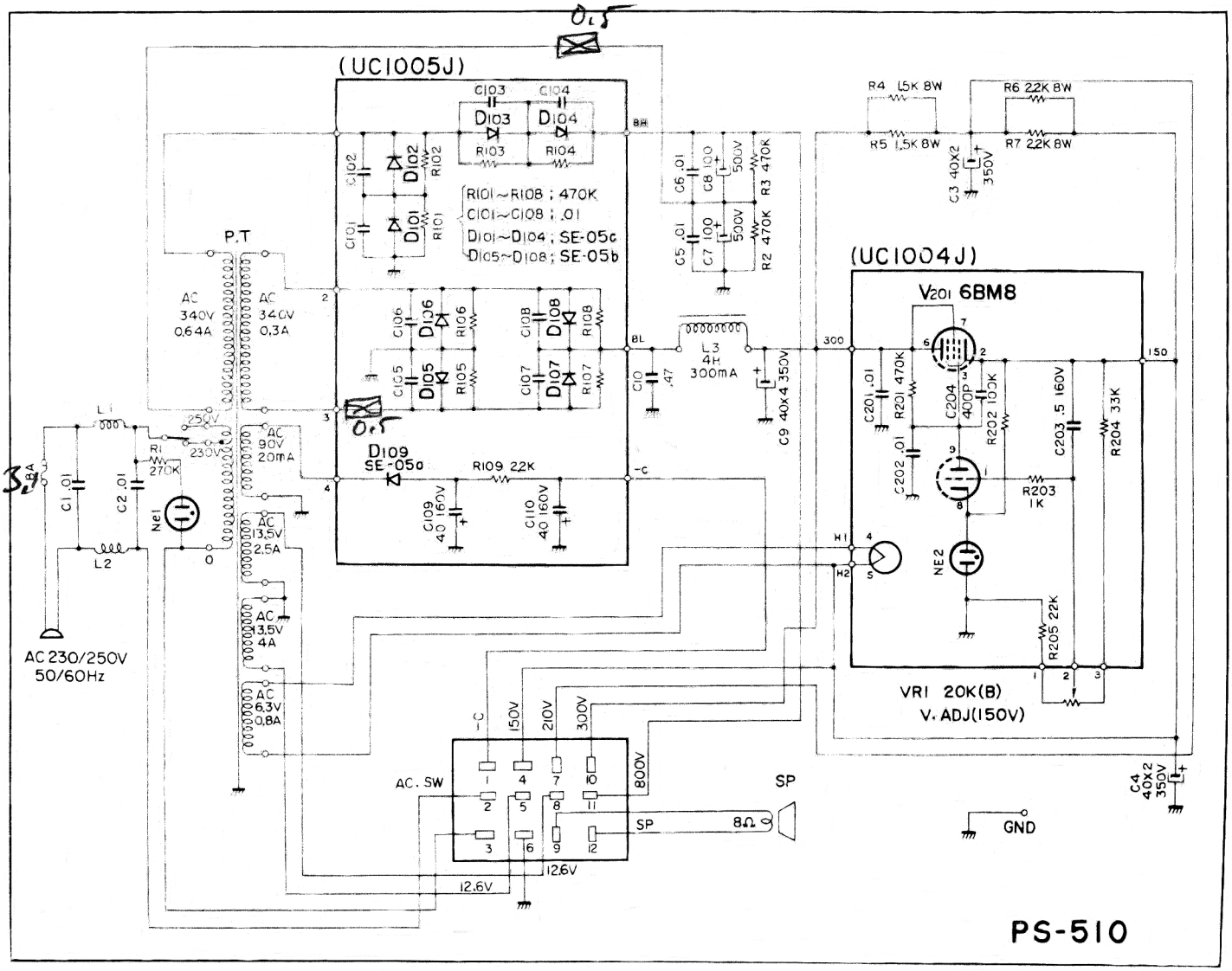PS-510 SCHEMATIC DIAGRAM