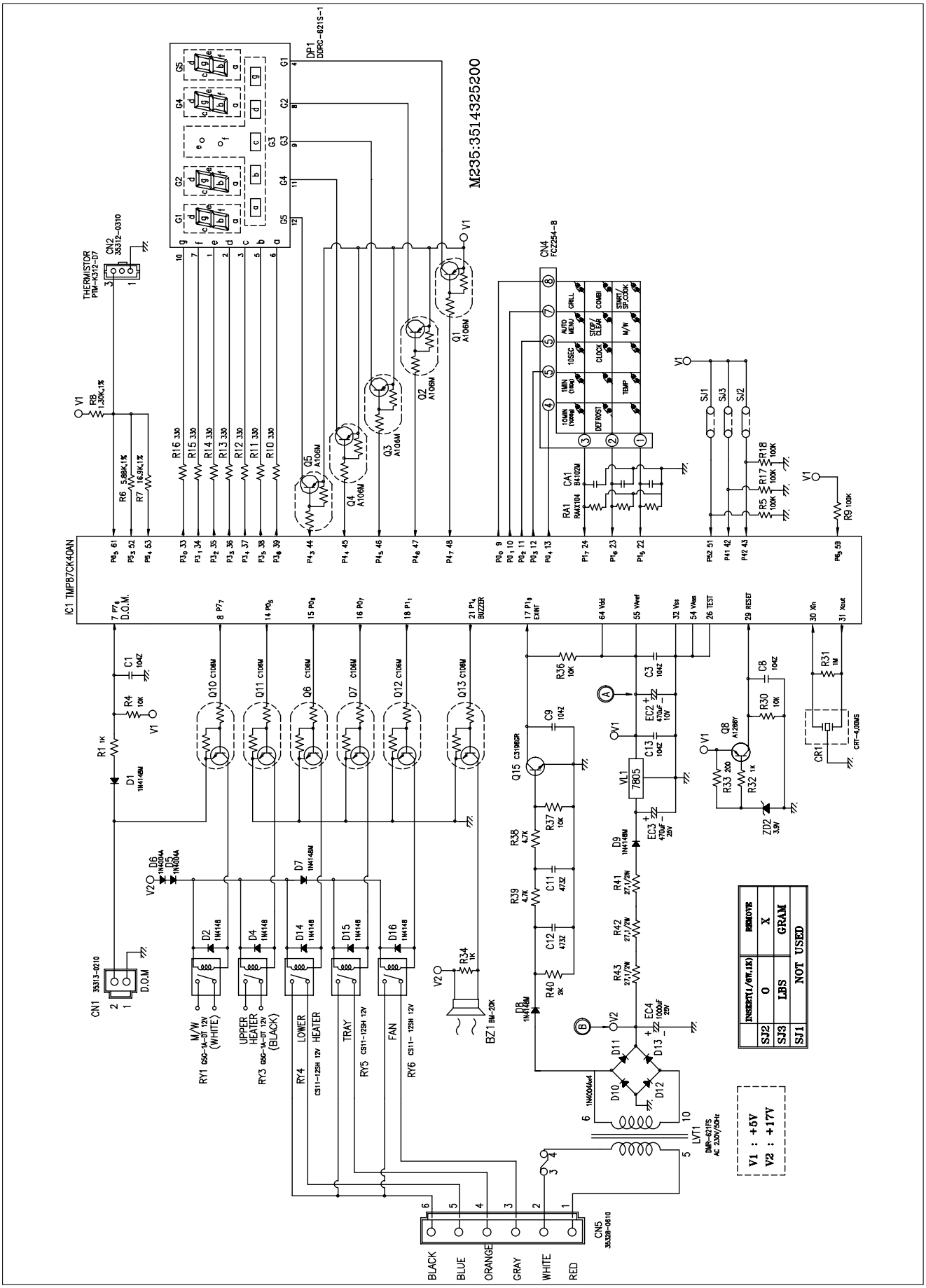13. P.C.B. CIRCUIT DIAGRAM