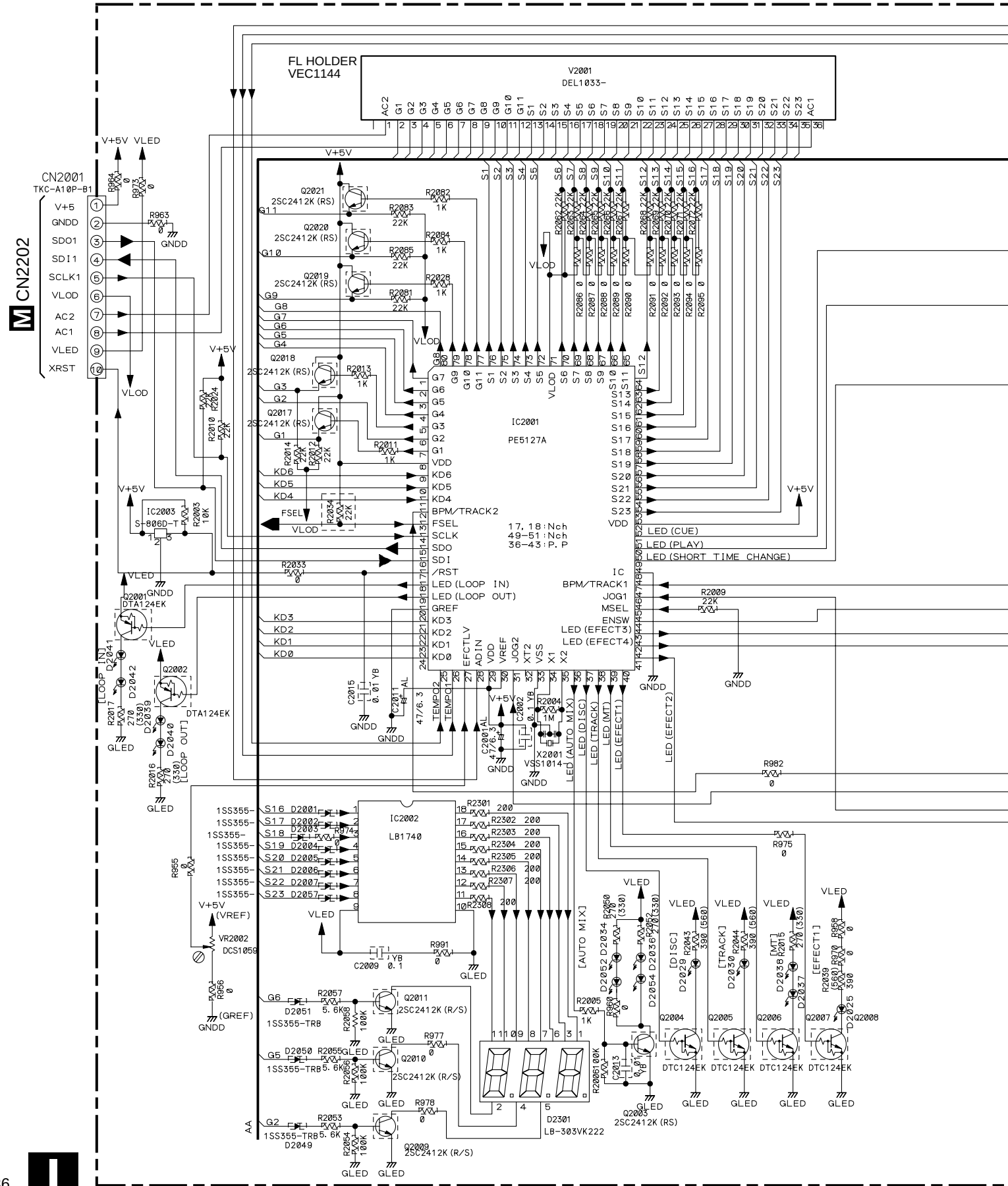3.14 FLK1 and PHT1 ASSYS