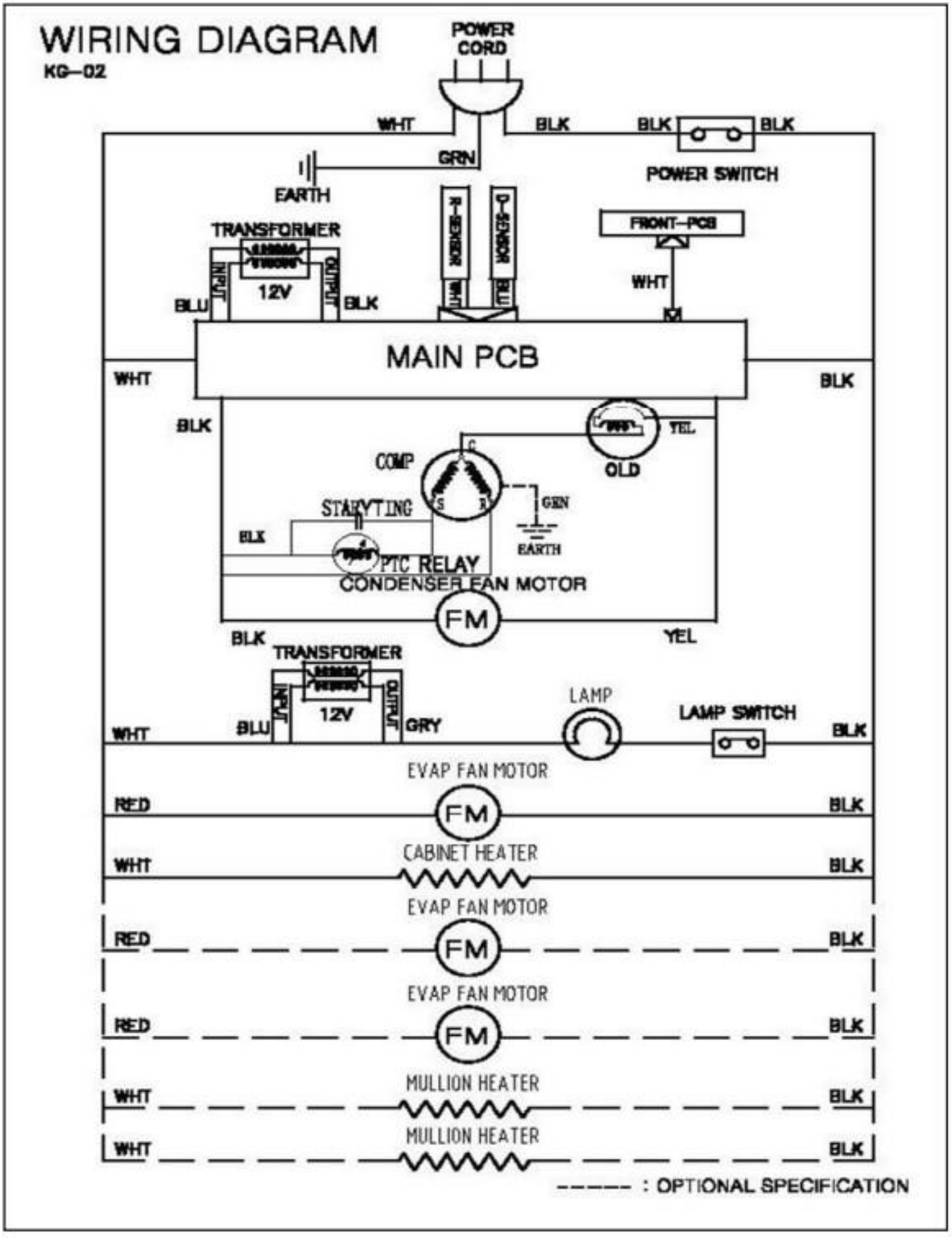2. WIRING DIAGEAMS