

POOL AND SPA BONDING AND GROUNDING SCHEMATIC

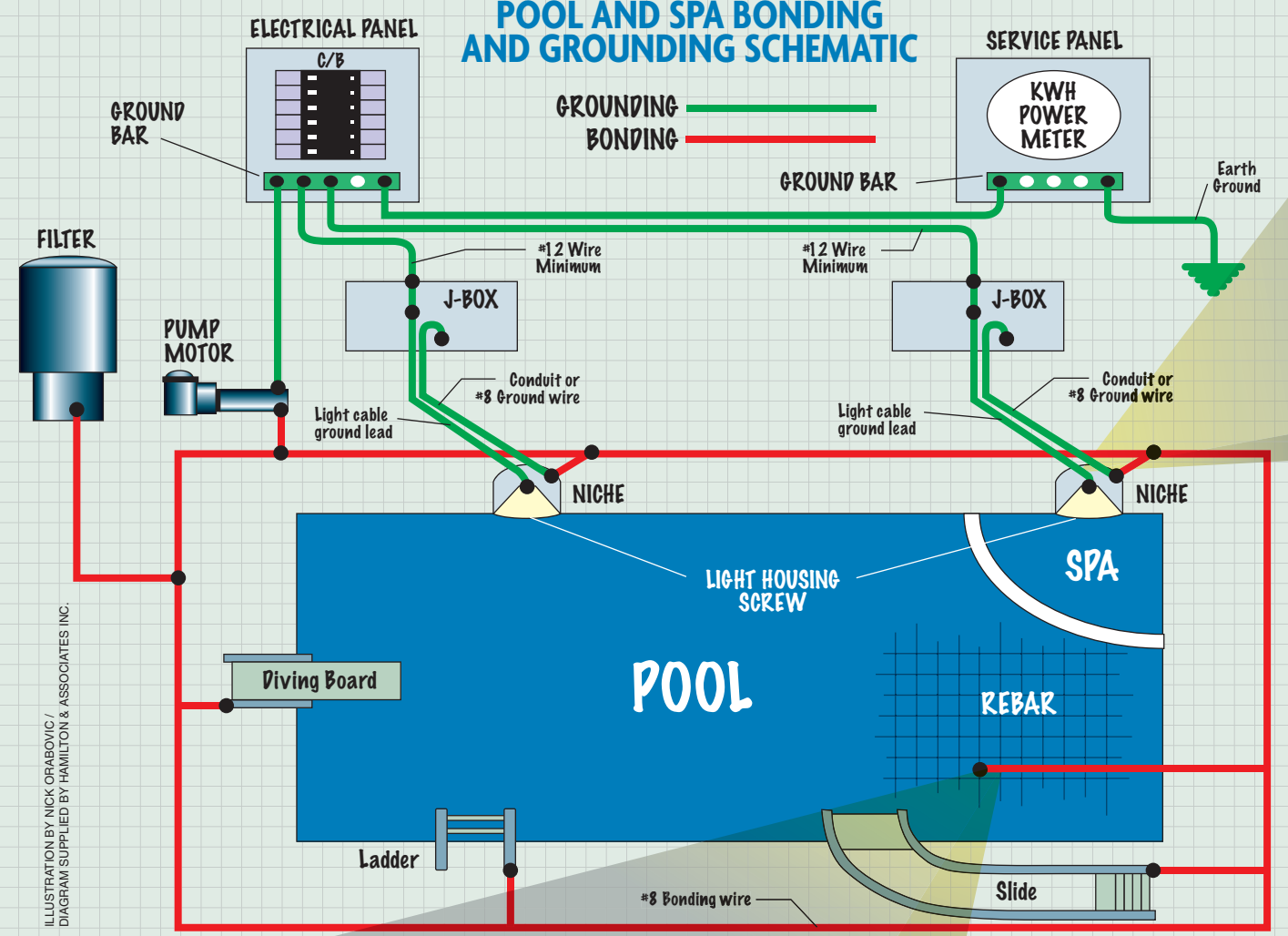
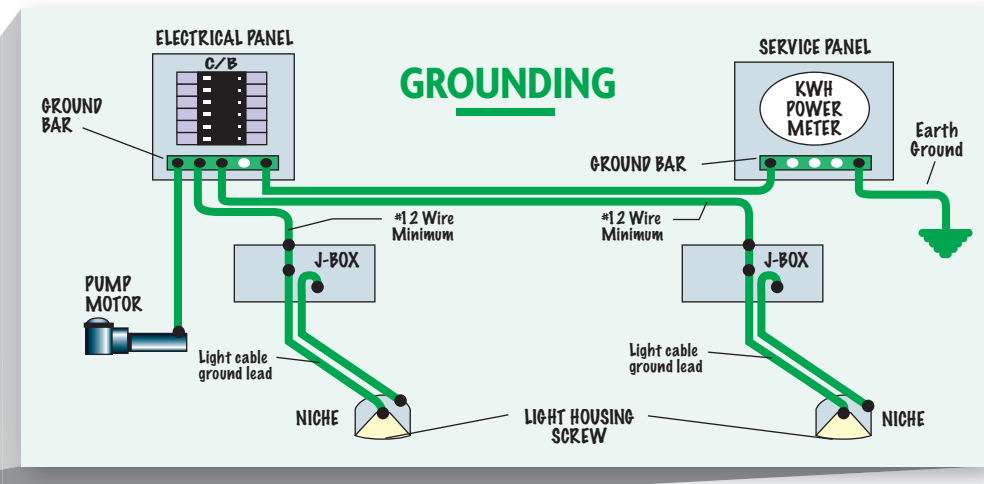
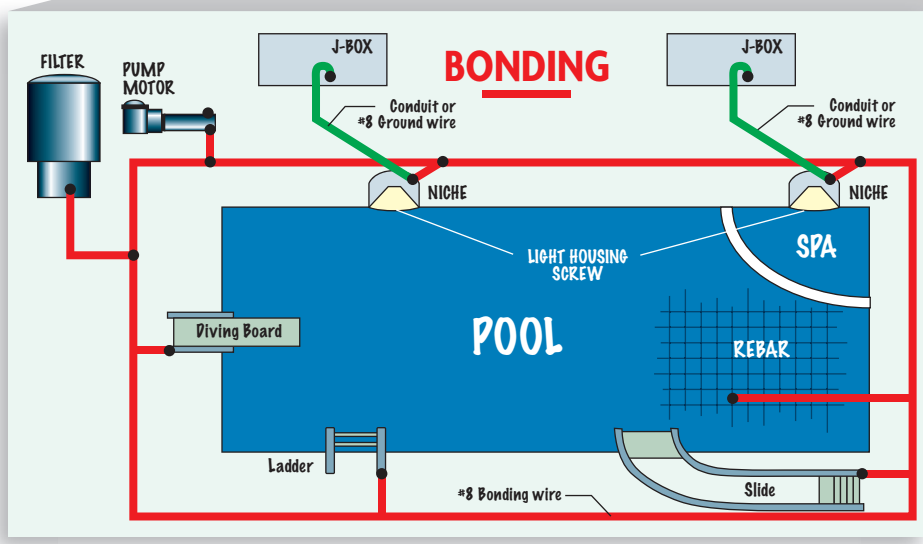


ILLUSTRATION BY NICK ORABOVIC / DIAGRAM SUPPLIED BY HAMILTON & ASSOCIATES INC.



Green grounds: All electrical equipment associated with the pool must be grounded. Ground wires run through the same conduit as the current-carrying conductors and to the circuit breaker panel. If there's a fault, the circuit breaker will trip and turn off the equipment.



Red bonds together: Bonding minimizes the differences in potential, or voltage, between metallic components around the pool to reduce shock hazards. Anything metallic within 5 feet of the inside pool wall (including the rebar and conductive deck materials) should be tied to the bonding grid. (Note: The wires running from the light niche and terminating at the junction box are technically grounds and therefore green. However, they also serve as bond wires.)

THE DIAGRAMS ARE MEANT TO DEMONSTRATE BASIC PRINCIPLES. THEY ARE NOT MEANT AS DESIGN GUIDES. THEY ARE NOT ALL-INCLUSIVE. CONSULT THE APPROPRIATE EDITION OF THE NEC AND LOCAL CODES.