

New York Electrical Inspection Services Newsletter

The Premier Electrical Inspection Agency in Westchester,
Putnam, Rockland, Dutchess and Orange Counties

September Vol.1 Issue 3

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Certified Electrical

Inspectors

Nick Morabito

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Ron Troyer

Westchester County Licensed Electrical Contractors Assoc.

Next Meeting-9/14/2009

<http://www.wcleca.org>

Putnam County Electrical Contractors Assoc.

Next Meeting-10/13/09

<http://www.pceca.com/>

Dutchess County Electrical Contractors Association

Next Meeting-9/15/09

www.dceca.com

Orange County Electrical Contractors Assoc.

Next Meeting-9/23/09

www.oceca.org

To all Contractors and Interested Parties,

The brief nature of this newsletter precludes us from going into any detail on the selected monthly topics. For more information or to suggest a topic, please contact our offices. (914) 347-4390
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MAIN BONDING JUMPER

One of the smallest yet least understood components in every service is the Main Bonding Jumper (MBJ). The MBJ is either an unspliced wire, bus or screw that is used to connect the equipment grounding conductor(s) and the Main Service Disconnect enclosure to the grounded conductor. In other words, the MBJ ties the panel, the ground wires and the neutral conductor together giving them all the same equal potential to ground. The MBJ is found only in the panel that houses the Main Service Disconnect. From that point thereon throughout the entire electrical system, the grounded conductors and the equipment grounding conductors are separate and isolated from each other, including sub panels, devices and motors. 250.24(A)(4) & 240.24(B)

Most service rated equipment comes with a factory supplied or installed MBJ-but not all, so please inspect your equipment carefully. If a screw is used, as in the case of most standard 200 Amp panel, it must be visibly green and threaded into the back of the Main Disconnect. For sizing of MBJ's, refer to Table 250.66 (same table used to size Grounding Electrode Conductors (water pipe ground).

Dishwashers

Any dishwasher is a motorized appliance, and as such, requires a means of disconnect. Article 422.16 (b)(2) Built In Dishwashers and Trash Compactors uses the term '**shall be permitted**' to be cord and plug connected. **Shall be permitted**, is a term used throughout the Code meaning 'one of several methods' or 'an optional method'. Other acceptable methods are a switch or overcurrent device, both required to be within sight of the appliance. See 430.109(C)(1,2&3) If opting to use a cord and plug connection, 422.16(B)(2) requires 1) a grounding type attachment plug, 2) a cord length no greater than four feet, 3) a receptacle located to avoid physical damage to the cord, 4) a receptacle located in the space occupied by the appliance or adjacent to, and 5) the receptacle shall be accessible. Locating the receptacle in the adjacent sink base cabinet is the most commonly found method of installation. Wall mounted receptacles behind the dishwasher are acceptable but may prevent a flush installation with the front of the base cabinets. Floating a receptacle under the dishwasher or hard wiring the dishwasher without a means of disconnect is not a permissible method and will no longer pass inspection.