

InterNACHI's Electric Panelboard Inspection Checklist

www.nachi.org/home-inspection-checklist

- Take inspection images for every task of the inspection process.
- Wear personal safety protection, including glasses and gloves.
- Touch the panelboard and front cover with a non-contact voltage detector.
- Check for adequate workspace, clearances, and illumination at the panelboard.
- Read the label on the cabinet front cover to identify the cabinet name and type.
- Check the condition of the dead front cover and for proper fasteners.
- Check specific identification for all breakers.
- Check for inspection stickers and dates.
- Check for unused openings, including knockouts.
- Identify the main service disconnect and rating, if labeled.
- Identify the breakers in the "off" position.
- Remove the dead front cover safely and carefully. (Not required. Optional. Hazardous.)
- Gaps greater than 1/8 inch between the cabinet and wallboard are not permitted.
- Check for rust, corrosion, or water inside the cabinet.
- Foreign objects or contamination inside the cabinet are not permitted.
- Check service entrance conductors and main lugs.
- Check clamps, connectors, and bushings.
- Check for disconnected or loose conductors.
- Inspect the main bonding jumper.
- Inspect the grounding electrode conductor (GEC).
- Locate and follow grounding and bonding components.
- Check the material type of the main water supply pipe.
- Check for damage to wires or sheathing.
- Check for melted or scorched conductor insulation.
- Check for overfusing or oversized breakers in relation to the connected wire gauge.
- Check for loose equipment grounding conductors.
- Check for doubled neutrals and doubled hot conductors.
- Look for multiple wires under a single screw at the neutral busbar.
- Look for different gauge wires under a single screw at the grounding conductor terminal bar.
- Check for solid conductor aluminum branch-circuit wiring.
- Identify any breakers that are not permitted by the manufacturer.
- Check for identified hand ties.
- Test GFCIs and AFCIs with test buttons.
- Check multiple cables in connectors and clamps.
- A doorbell transformer inside the cabinet is not permitted.
- In the subpanel, confirm that the EGCs (equipment grounding conductors) are on a separate terminal bar that is bonded to the cabinet and that the grounded conductors (neutrals) are isolated or floating from the cabinet.
- Never leave the panelboard exposed.
- Replace the cabinet's dead front cover immediately, correctly, and safely.