

Verifying Di-electric Testing on Insulated Boom Trucks

ANSI Standard A92.2 - 5.3.4 Periodic Electrical Test: *"Each insulating aerial device shall be periodically electrically tested in accordance with Section 5.4.3 to verify the dielectric resistivity and detect conductivity changes in its insulating sections. (c) After repair or replacement of any component that crosses the insulating system(s), or the repair or replacement of an insulating component(s) (e.g., hoses, leveling rods, boom coating, etc.), the unit shall be dielectrically tested in accordance with section 5.4.3."*

ANSI Z133 - Safety Requirements for Arboricultural Operations: 5.2.34: Insulated boom-supported elevating work platforms shall meet the electric safety requirements of ANSI A92.2.

OSHA Regulations: 1910.67(c)(3), 1926.453(a)(2), 1926.453(b)(2)(xi)

Insulated Booms:

Insulating boom aerial devices are designed to provide secondary protection to help prevent workers from being electrocuted. Maintenance and dielectric testing are critical to verify that the insulating portion of the machine is functioning as designed. A new boom is dielectrically tested at the factory following ANSI requirements for a qualification test to verify the insulating rating. Additional tests are performed to confirm the insulating value after units are finished and operational. Once insulating equipment is placed in service, maintenance tests are required to be performed for a variety of reasons. Periodic testing in accordance with the ANSI A92.2 or A10.31 standard is required. If the equipment has not had a dielectric test performed within the last 12 months, as required by ANSI and OSHA, it cannot be considered insulating. Dielectric testing also should take place after repairs or replacement of components in the insulating sections, when a problem is suspected or after incidents of contact with energized power lines.

Where to look for verification of Di-electric Testing: Di-electric test stickers can usually be found in a few places. They are most often placed in the cab on the driver's side rear window. Sometimes they are also located on the side of the bucket or on the boom itself. See photo's below.

