

Service Call:

Reclassifying a Digger Derrick or
Aerial from Insulated to Not Insulated

Tools Required:

Common hand tools

Model(s): All

Tech Tip Safety Rules



Danger

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury. Many of the hazards identified in the operator's manual are also safety hazards when maintenance and repair procedures are performed.

Do Not Perform Maintenance Unless:

- You are trained and qualified to perform maintenance on this machine.
- You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this tech tip is a supplement to the service manual. Consult the appropriate service manual of your machine for safety rules and hazards.

Introduction

If an aerial or digger derrick is no longer used in an electrical environment and the customer wishes to discontinue dielectric testing, then the unit **MUST** be converted to a Not Insulated unit.

Depending on the original rating of the unit components may need to be removed to make the unit Not Insulated.

Regardless of machine type or category rating if an annual dielectric test is not performed on the equipment it must be considered as not insulating.

- **For an aerial device, follow steps 1-5 and 9-11.**
- **For a digger derrick, follow steps 6-11.**

Step 1 (Aerial Device)

Install 4 (four) “NOT INSULATED” decals, 465703 on both sides of all insulating sections. If the aerial is telescopic, install on the outside of main boom.

Step 2 (Aerial Device)

Install 3 (three) Not Insulated Danger decals, 419265 at lower controls and upper controls visible to the operator.

Step 3 (Aerial Device)

Remove the bands of arrows and the “Not Insulated Beyond Arrows” decals, 402236, at all locations on the upper and lower boom.

Step 4 (Aerial Device)

If the aerial is a telescopic unit with minimum extension decals 79238 and 79691, they must be removed.

Step 5 (Aerial Device)

If the aerial device is a Category A or B, the Corona Ring and Conductive Shield must be removed also.

Step 6 (Digger Derrick)

Install 2 (two) “NOT INSULATED” decals, 465703, on both sides of the main boom.

Step 7 (Digger Derrick)

Install 4 (four) Danger decals, 419265 at boom tip near platform pinning point and lower controls.

Step 8 (Digger Derrick)

Minimum extension decals; 79238 and 79691, must be removed if present.

Step 9

On the ID plate the following changes will need to be made

- put an X in the Not Insulated box
- X out the insulated name and box
- X out the Design Voltage box
- X out the Qualification Voltage

Step 10 (Aerial Device)

Send photos of the re-decaled unit and a photo of the ID Plate detailing the new markings as noted in Step 5. These photos can be sent to Tech Support at utilities.service@terex.com along with a description of what is being done and the owner contact information.

Step 11

It is suggested that the upper and lower fiberglass booms be painted a color other than white, yellow or orange to distinguish from Insulated units. Black is a common color for a Not Insulated boom.