TOOLBOX TALKS

WELDING ON MACHINES WITH ELECTRONIC CONTROLS

Toolbox Talks are designed to promote safety discussions and best practices on the jobsite. To see more Toolbox Talks, please visit cat.com/toolboxtalks.

As with all machines with electronic controls, special care should be taken when welding on the machine. Here are some tips for welding machines with electronic controls.

GENERAL WARNINGS & TIPS

- Always wear proper personal protective equipment (PPE)
- Before welding around electronics, if possible, remove the electronics in that area to reduce or eliminate heat damage caused by the welding process
- Turn the battery disconnect switch to the OFF position and verify that the hazardous voltage indication lamp turns off
- Lock-out and tag out the machine
- Clamp the ground cable from the welder to the component that will be welded and place the clamp as close to the weld as possible
- Do not use electrical components (engine control module (ECM) or ECM sensors) or electrical component grounding points for grounding the welder
- Do not weld in wet areas or in the rain
- Always weld in a well ventilated area
- Keep your work area clear of anything flammable
- Do not use cables that are frayed, cracked or have bare spots in the insulation

Discussion Date: _____

Employee Participants:

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There are a lot of moving parts on the jobsite. To find a safety topic relevant to your operation, please visit cat.com/toolboxtalks.

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