

SOURCE	Pave N&S	DATE – July 2023	REF 2023/41
DISTRIBUTION	All Business Areas		

Title: Fitting / Removal 2CX or 3CX Breaker Locking Pin



Backhoe Breaker with Locking Pin



Simulation of Operative attempting to install the locking pin from the cab



Simulation of Operative's hand that was caught between the locking pin and boom

Detail:

- An operative was securing the JCB 3CX hydraulic breaker after use during a nightshift and was attempting to fit the breaker locking pin.
- The operative removed the breaker chisel and then entered the machine cab.
- The operative then attempted to position the backhoe boom and dipper to enable the breaker locking pin to be fitted.
- Whilst attempting to fit the locking pin to the boom whilst sat in the cab there was an unintentional movement of the boom resulting in a crush injury to the operative's right index finger.

Key Factors:

- The operative was trained and authorised to operate the JCB 3CX.
- The task being carried out was a frequent task, that is carried out at least twice each shift if the hydraulic breaker is in use.
- The fitting of the locking pin is a security measure that is required on all JCB 3CX and 2CX machines across the Pave businesses.
- The approved method of installing the breaker locking pin states that the machine must be positioned then fully isolated before any attempt is made to install the pin however the operative positioned the boom and then attempted to fit the locking pin whilst still in the machine cab and had not isolated the machine. Video of the approved method of installing the breaker pin is [here](#).
- Early indications are that the operative accidentally moved the boom controls whilst attempting to fit the locking pin resulting in an unintentional movement of the boom which caused the injury to the finger. Simulation video of the unintentional pin movement can be found [here](#).

Immediate Actions to Complete:

- Ensure Guidance for Safe removal / fitting of breaker locking pins for 2CX and 3CX is re-issued and understood by all authorised operators. Link to the guidance is [here](#)
- Ensure all removal or fitting activities of breaker locking pins is carried out in accordance with the Guidance document.