

## LXP® Lock-Pin Maintenance

The LXP® lock-pin that connects the removeable jaw sets into the attachment body is a fairly simple double-ended cylinder that retracts to release the jaw set and extends to lock the jaw set into the attachment.

A custom DO3 valve in the LXP® rotator head operates the lock-pin cylinder by borrowing hydraulic energy from the cylinder circuit as the main cylinders are retracted over system relief pressure. Operating the electrical switch in the excavator cab while the cylinders are retracted enables the lock-pin cylinder to extend or retract to change jaw sets.



While changing LXP® jaws is not a complicated process, there are factors of which you should be aware.

Remove the lock-pin safety plates on each side of the body before operating.



If any hose or component, such as the swivel or lock-pin cylinder, has been removed, serviced or replaced but not properly reinstalled, the lock-pin will extend but not retract.

If this happens, try switching the lock-pin hoses where they connect to the end of the swivel manifold spool. The DO3 valve that operates the lock-pin cylinder is a custom ported valve that must be connected to the lock-pin cylinder in the correct orientation, or it will not retract the lock pin.

Finally, be sure to maintain the quick plate trunnion and its mating saddle in the attachment body. When the replaceable sleeves on the trunnions are worn or missing, or the saddles in which they sit are worn, the jaw set will rock back and forth, pivoting on the lock-pin pistons during normal operation. Over time, this causes the spanner nuts on the back side of the pistons to unscrew and will prevent the lock pin from retracting far enough to release the jaw quick plate from the body.

If this occurs, remove the hoses and fittings connected to the lock-pin cylinder and the two large socket head screws holding the cylinder into the center tube. Slide the cylinder out of the center tube and repair or replace. Also repair any wear in the trunnion sleeves and mating hooks.



You can learn more about changing LXP® jaws by watching our [LXP® Jaw Change-out video](#) or reading the Jaw Set Change-Over section in the [LXP® Safety & Operator's Manuals](#).

Tim and Loren, as always, are also available to answer any questions. Contact Tim at 218-349-5755, [talseth@genesissattachments.com](mailto:talseth@genesissattachments.com), and Loren at 715-919-8316, [llagesse@genesissattachments.com](mailto:llagesse@genesissattachments.com).