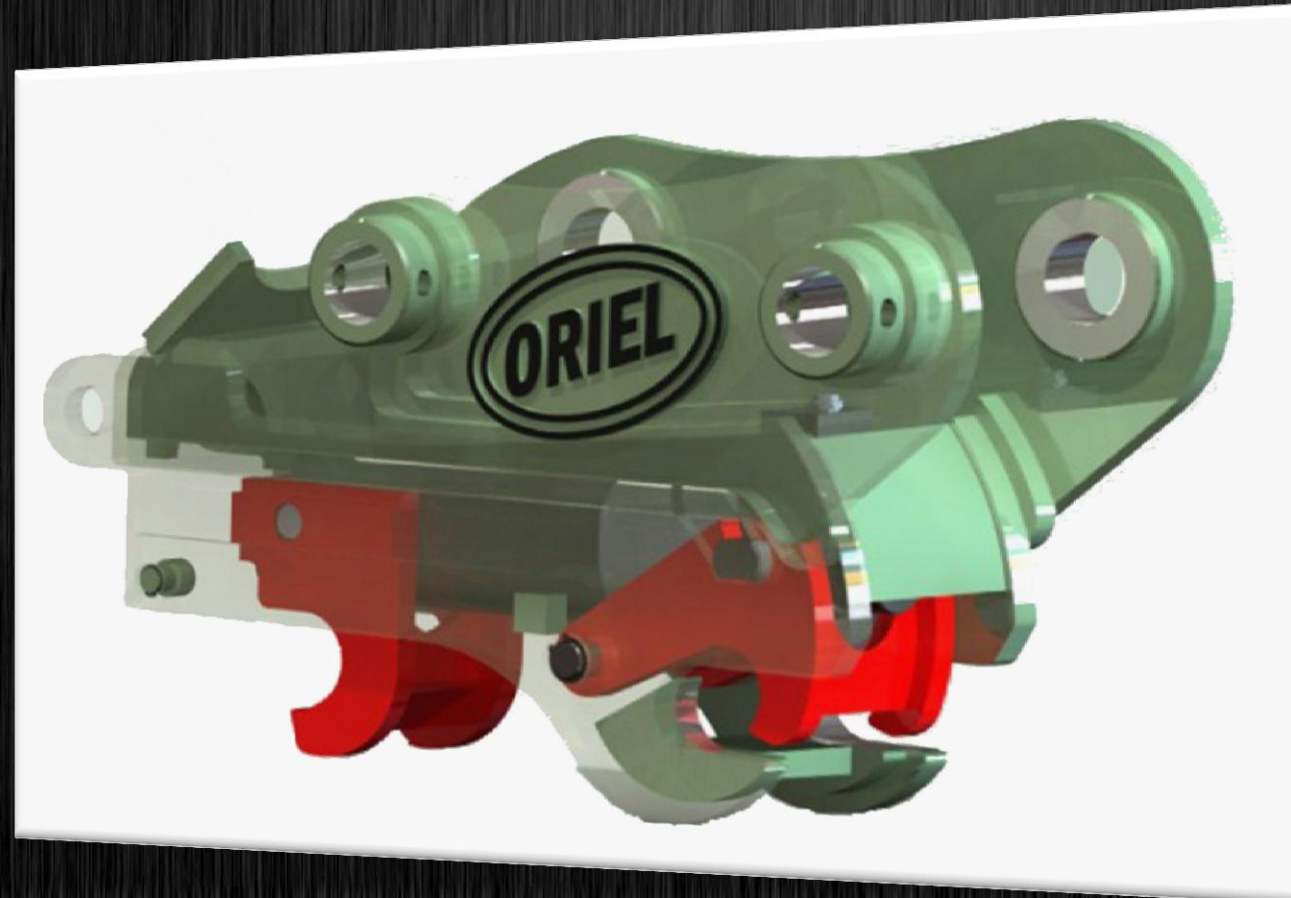


DAEQUIP

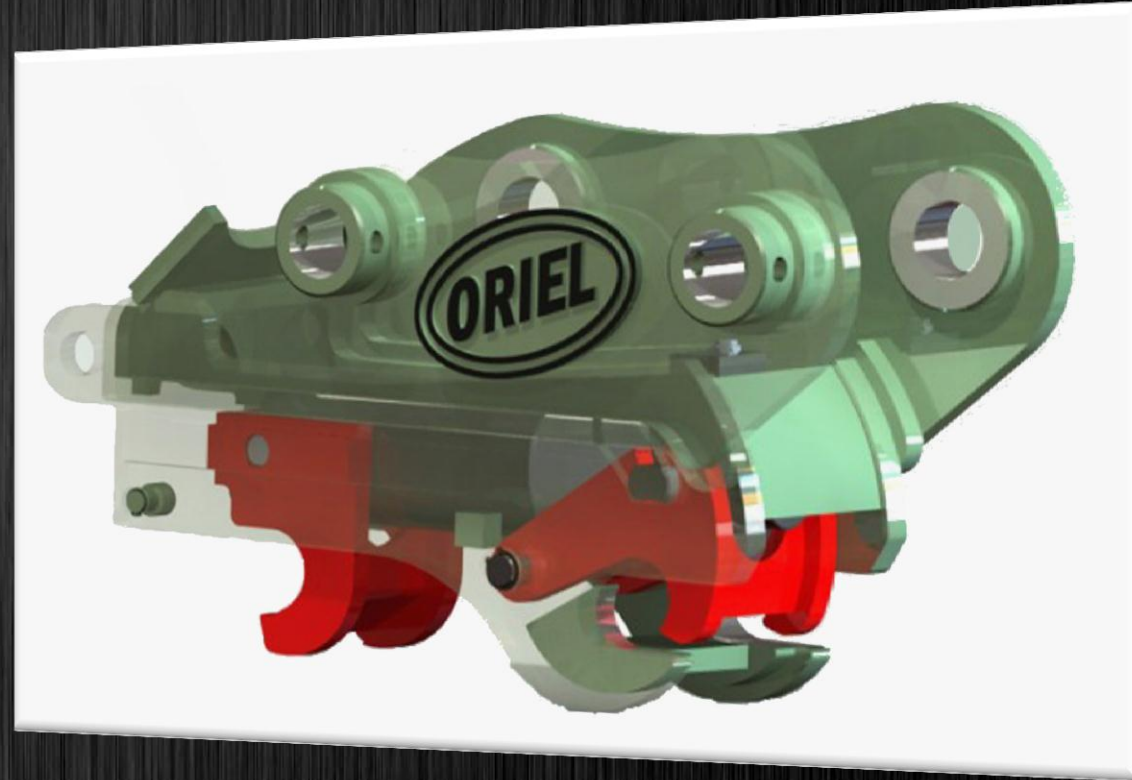
PREMIUM EQUIPMENT ATTACHMENTS

ORIEL Triple Lock Coupler System



Unbeatable Performance:

- Oriel Triple Lock Quick Coupler is made of only the *Highest Standard* material and cast steel components.
- Its *Compact Design* maximises safety and performance while minimising any compromise to the excavators performance.
- The Quick Coupler is *Operated Fully* within the excavator cab ensuring maximum efficiency, safety and ease of operation.



https://www.youtube.com/watch?v=QHM_rRbNLEY

Operation:

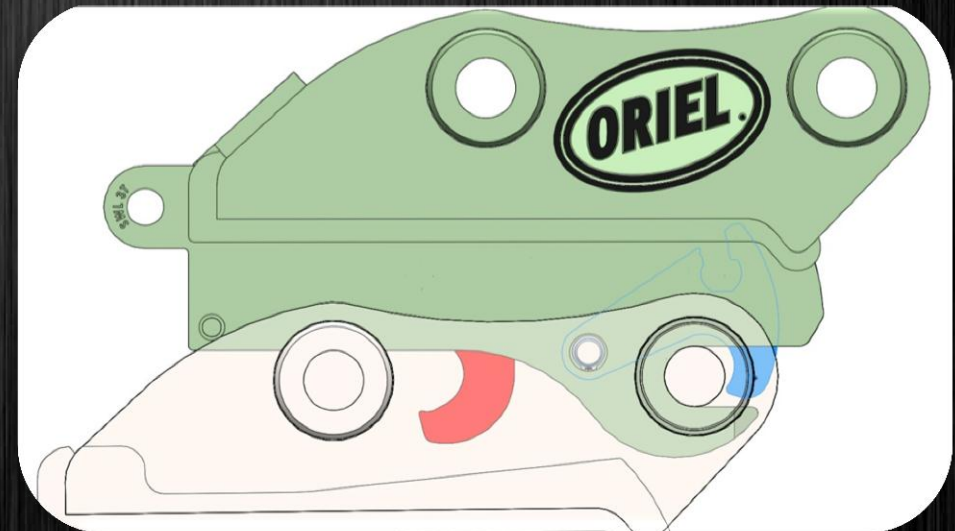
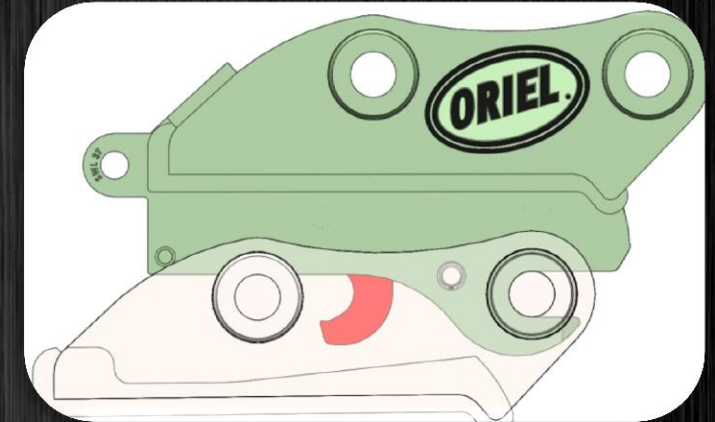
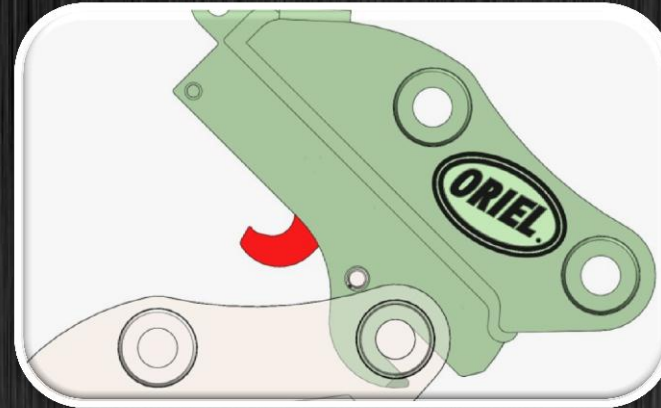
Connecting Oriel Triple Lock Coupler

1. Guide the Quick Coupler front hook onto the attachment front pin.
2. Lower the back of the Quick Coupler onto the attachment back pin
3. Outstroke the quick coupler ram to engage the attachment back pin.
4. The auto-lock will automatically close over the front pin, clearly visible to the operator from the machine cab.



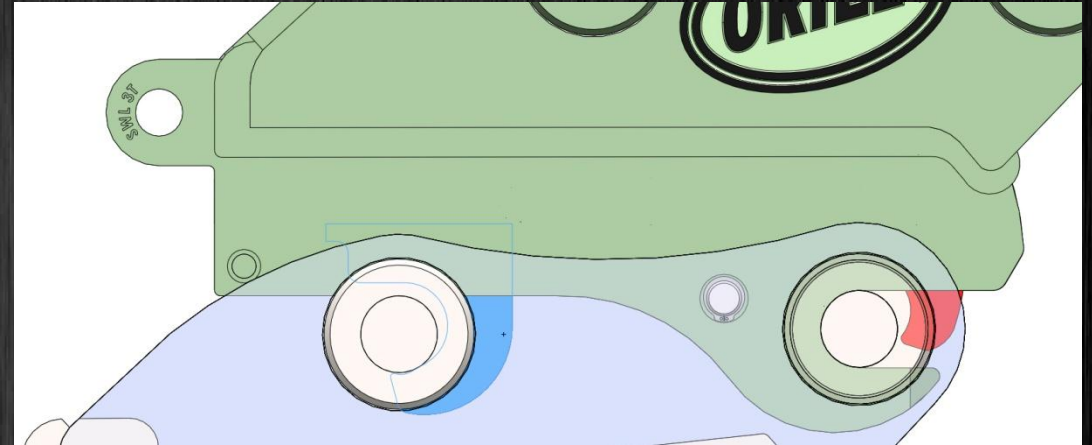
First lock

- Pick up front pin
- Curl bucket cylinder
- Turn off ABR switch.
 1. First lock will engage.
 2. Second lock will grasp second pin.



Second lock

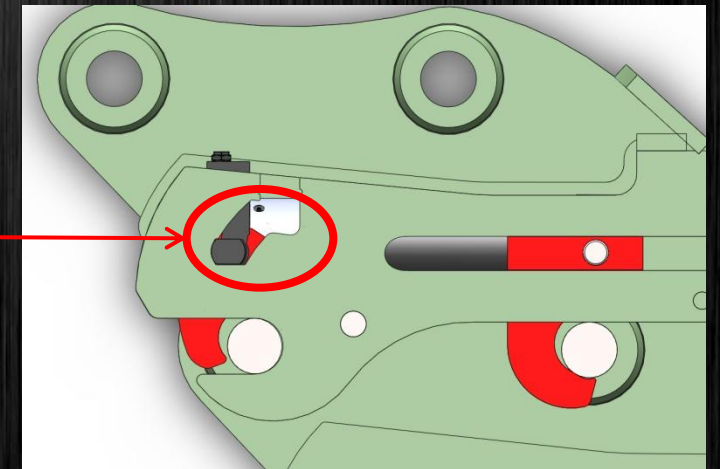
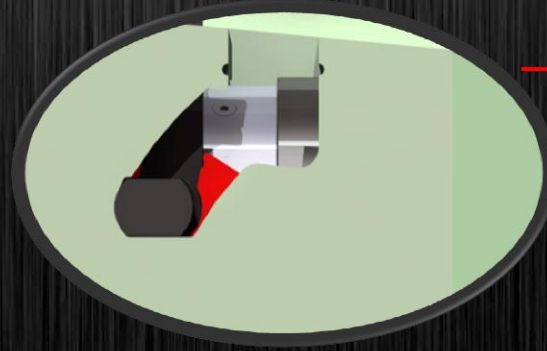
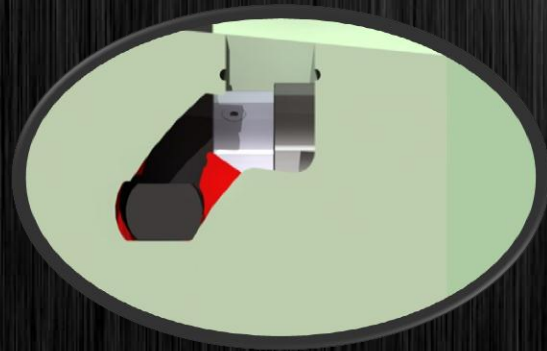
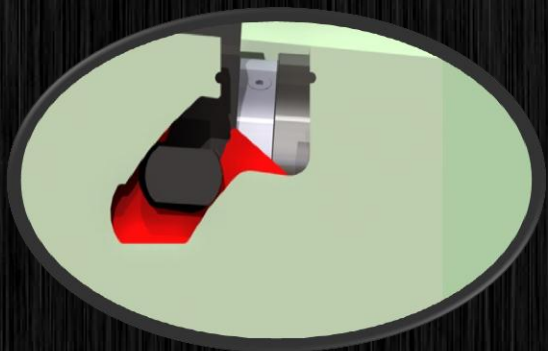
- **Second lock grasps second pin.**
- **Ram & spring engages both locks.**



- **The following independently keep the Ram Positively locked:**
 - **Spring around the ram**
 - **Ram check valve.**

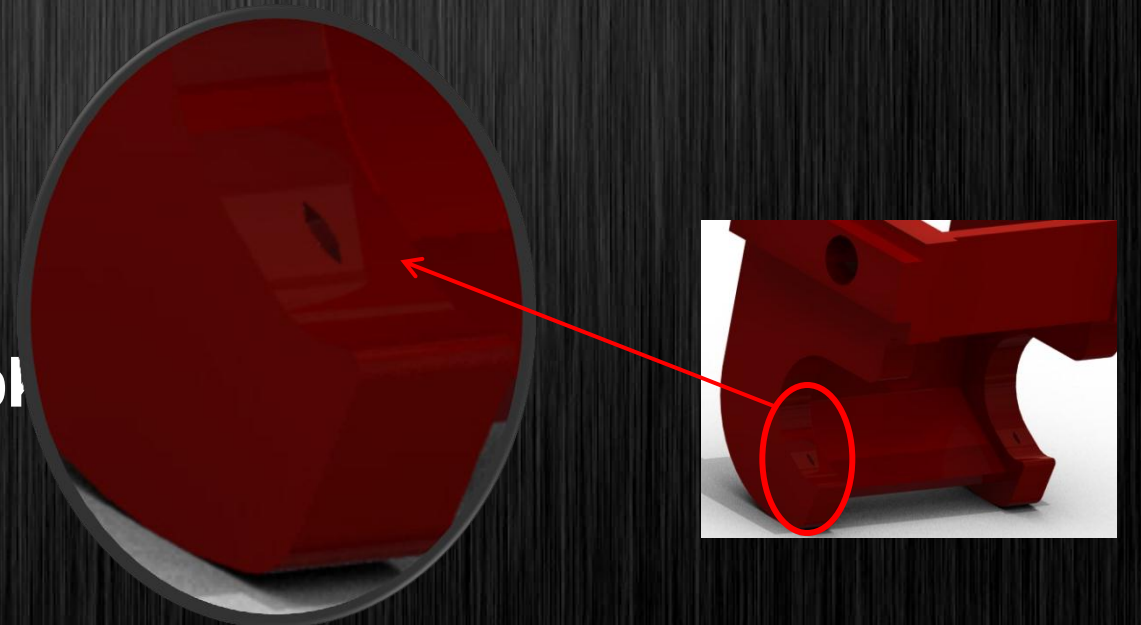
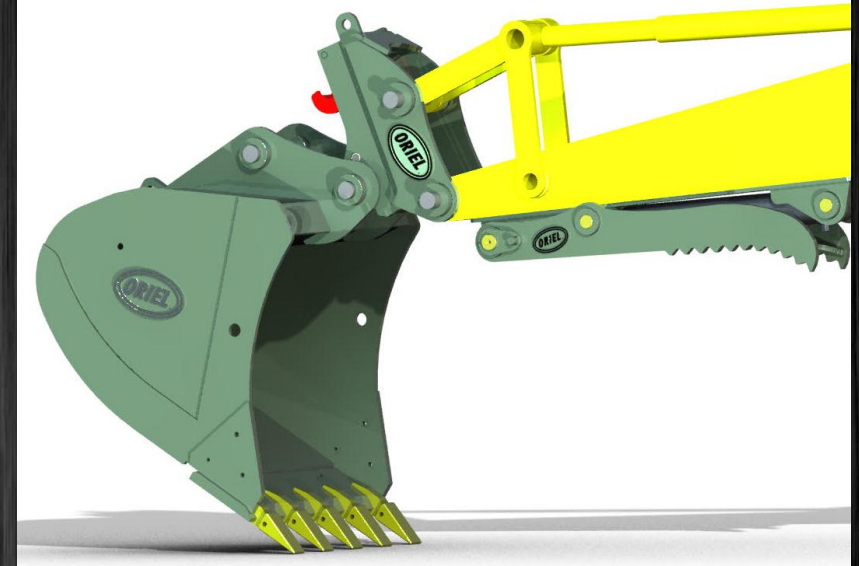
Third lock

- **The Third lock is independent of any leaf spring or gravity lock as it is mechanically locked into the body.**
- **This lock will stay in position even in the event of hydraulic failure.**
- **When the back lock grasps the second pin, the ram & spring continue to extend pushing the ram into a position where it locks the front lock into the body as shown.**



Design of locks

- **First lock**
 - Hooked around to give reassurance in the case of the driver missing the back Pin.
- **Second lock**
 - Seated over half the pin
 - Wear mark indicator on back hook
 - Weldox 700



Oriel linear operated ram

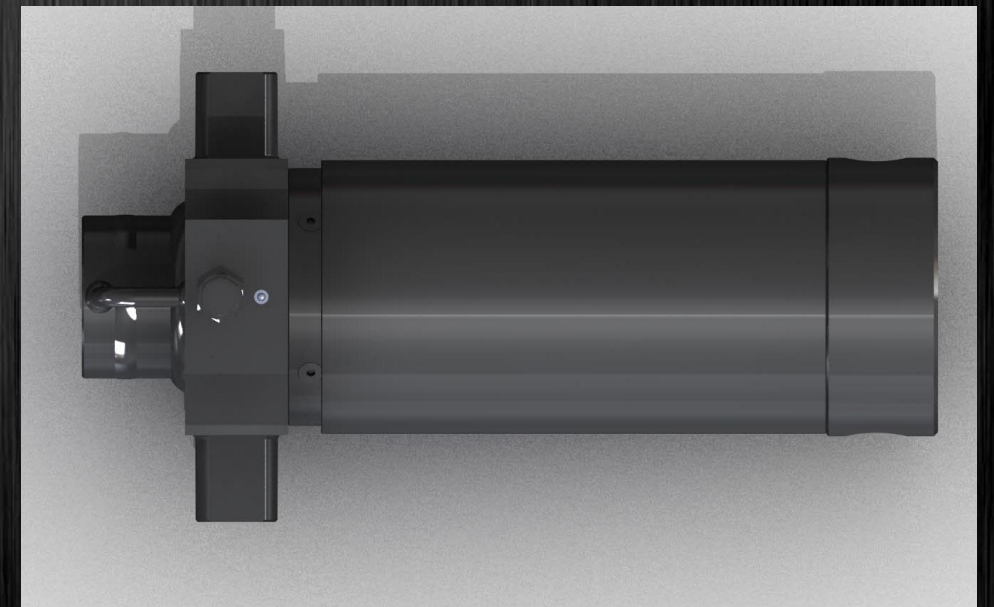
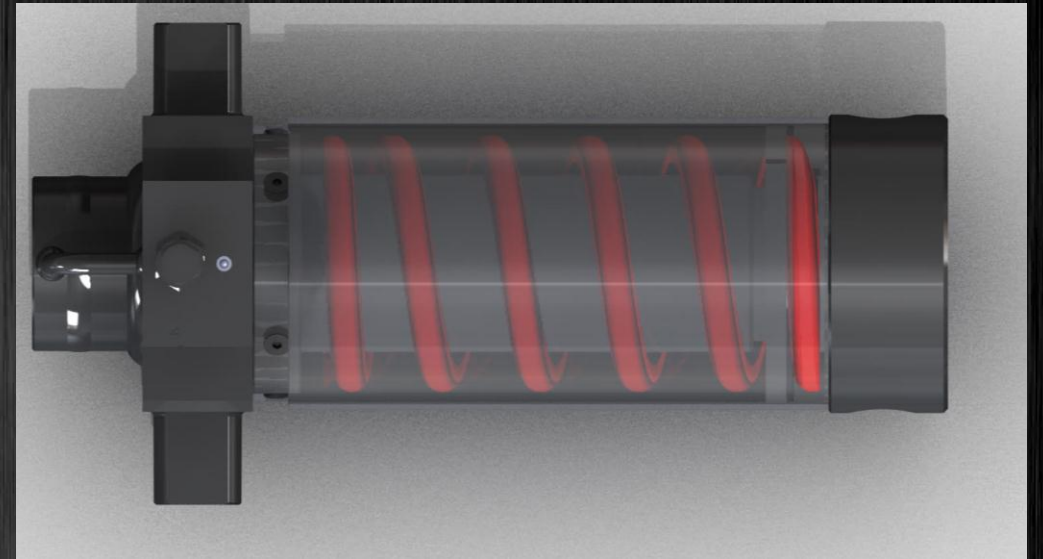
- **Through extensive research and testing they have found that the ram operating in linear motion is a much more efficient way of loading as the ram does not come under as much stress as that of a ram in “pivotal Motion”??**



Ram Design

- **Oriel unique ram design.**
 - **Key component of third locking mechanism**
 - **Heavy duty coiled spring.**

- **Key features include:**
 - **Check valve**
 - **High strength material.**
 - **Spring Cover**
 - **Which offers maximum protection of spring in robust conditions.**



Visual, Audio, Tactile and Reasoning Safety Features Continued:

- Fully curl in of the attachment to safe position prevents un-intended release of attachment.
- Positive hydraulic power is then applied to unlock the attachment.
- If attachment is not in a safe position it cannot be released.



Visual, Audio, Tactile and Reasoning Safety Features Continued:

- Clear and constant *Visual* contact with automatic pin lock to confirm *Safe Status* of operation at all times.
- This pin lock is set to default 'ON' and can only be released by action of hydraulic pressure.



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