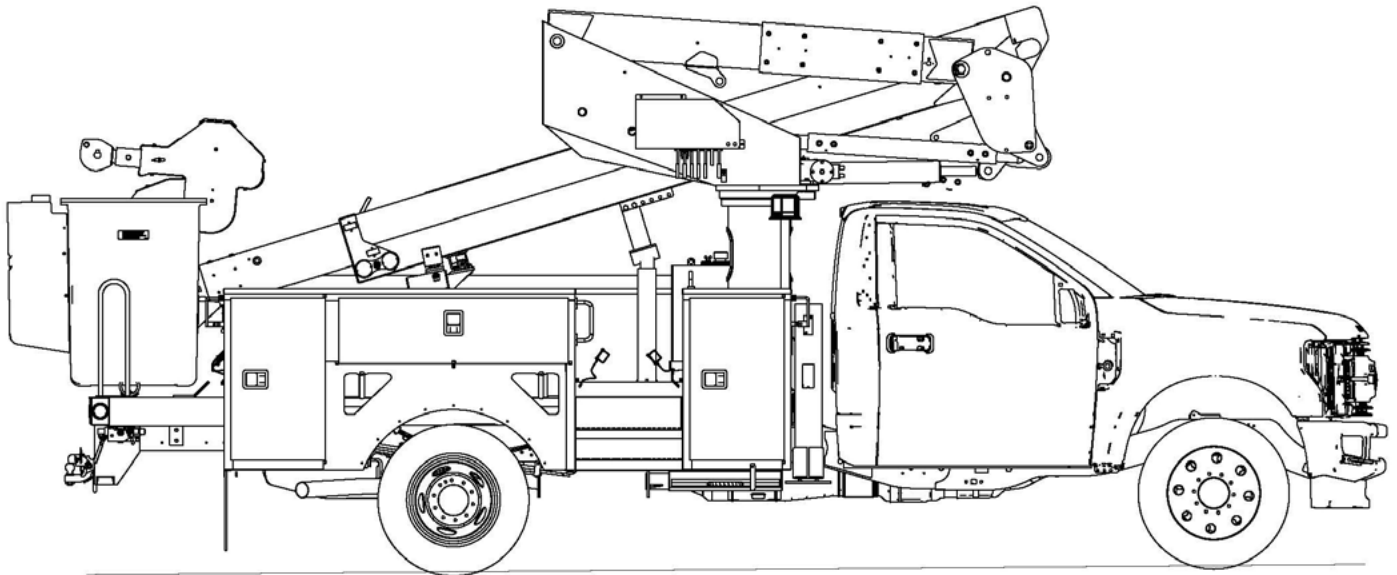




# TECH TIPS

REMOVAL OF STUCK/FROZEN OUTRIGGER PINS

NO. 89



**SERVICE CALL:**  
REMOVAL OF STUCK/FROZEN  
OUTRIGGER PINS



**MODEL(S):**  
ALL TEREX UTILITIES UNITS  
USING A-FRAME STYLE  
OUTRIGGERS



**TOOLS NEEDED:**  
BASIC HAND TOOLS  
30-TON KING PIN PRESS  
PNEUMATIC/HYDRAULIC PUMP  
TORCH KIT WITH ROSEBUD TIP  
AIR COMPRESSOR

TEREX UTILITIES TECHNICAL SUPPORT TEAM

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## **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.



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| *Position the press*

| *Apply force*

**STEP 1 - STEP 5**

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| *Heat the eye and press the pin out*

| *Install the pin*

**STEP 6 - STEP 10**

## STEP 1

Lower the outrigger until it is 4-6" from the ground to allow the press to slide under the outrigger swivel pad.

## STEP 2

Line up the press so it is centered on the outrigger pin.

## STEP 3

Apply a slight amount of pressure to the pin using the press. Make sure to push the swivel pad down to allow access to the retainer bolt.



## STEP 4

Remove the pin retainer bolt from the cylinder rod eye using a 5/8" socket. If the bolt is rusted and the bolt head becomes stripped, a 13mm 6-point socket can be used.



## STEP 5

Apply force with the press. If the pin will not move, apply heat with the torch using a rosebud tip.



Have wet rags or a fire extinguisher available in case of fire.

## STEP 6

When Cylinder rod eye is heated, operate the press to push the pin out.

## STEP 7

Allow the cylinder rod eye to cool. Using emery cloth or sandpaper clean the cylinder rod eye bore.



Pin will be hot. Use appropriate Personal Protective Equipment (PPE) when handling the pin to prevent burns.

## STEP 8

Clean the threads in the retainer bolt hole by using a 7/16 NF tap or thread chaser.



## STEP 9

When reinstalling the pin, carefully line up the pin hole in the outer leg, swivel pad, and cylinder rod eye. Apply anti-seize to the pin and gently tap the pin into place.

## STEP 10

Install the new pin retainer bolt. Consult the bolt torque chart in the unit specific maintenance manual for proper torque.



FOR FURTHER ASSISTANCE,  
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM  
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