Service Call:

Checking the Torque on Rotation Bearing Fasteners

Tools Required:

- Correct Maintenance Manual for the unit being worked on
- Calibrated torque wrench
- Sockets and any adapters needed to access the fasteners
- Read and understand the Product Advisory (PA 1016B) on Turntable Bearing Bolt Inspection
- Scribe or number and letter stamp set

Model(s):

All Terex Utilities manufactured Aerial and Digger / Derrick units

Tech Tip Safety Rules

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.

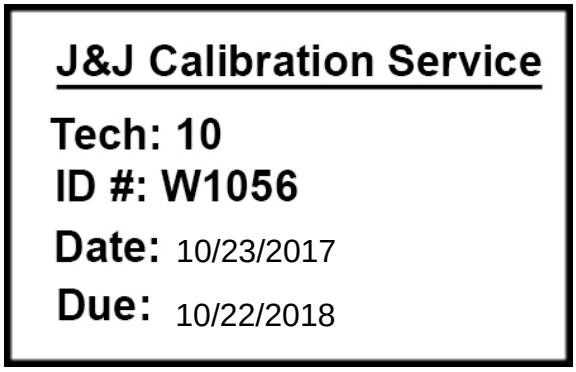
Do Not Perform Maintenance Unless:

- **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.

Step 1

Make sure that the torque wrench that you are using has a current calibration sticker. Typically one year from either the purchase date or the last calibration.



Calibration Current

Calibration Not Current

Step 2

Determine the proper torque for the fasteners that you are checking (see the quick reference section of the correct maintenance manual).

Step 3

When using a socket with an extension, the torque value does not change.

When an adapter such as a “crows foot” is used, the torque value of the wrench must be adjusted to account for the change in distance between the center of the square drive and the center of the fastener being checked.

Use the information supplied with your torque wrench to make this calculation and adjustment.

Step 4

Use the correct torque and lubricant indicated in the maintenance manual. Do not “jerk” the torque wrench as you apply torque; instead apply pressure smoothly and evenly.

Step 5

Other components may need to be moved to gain access to all of the fasteners. Do not skip over any fastener.

Step 6

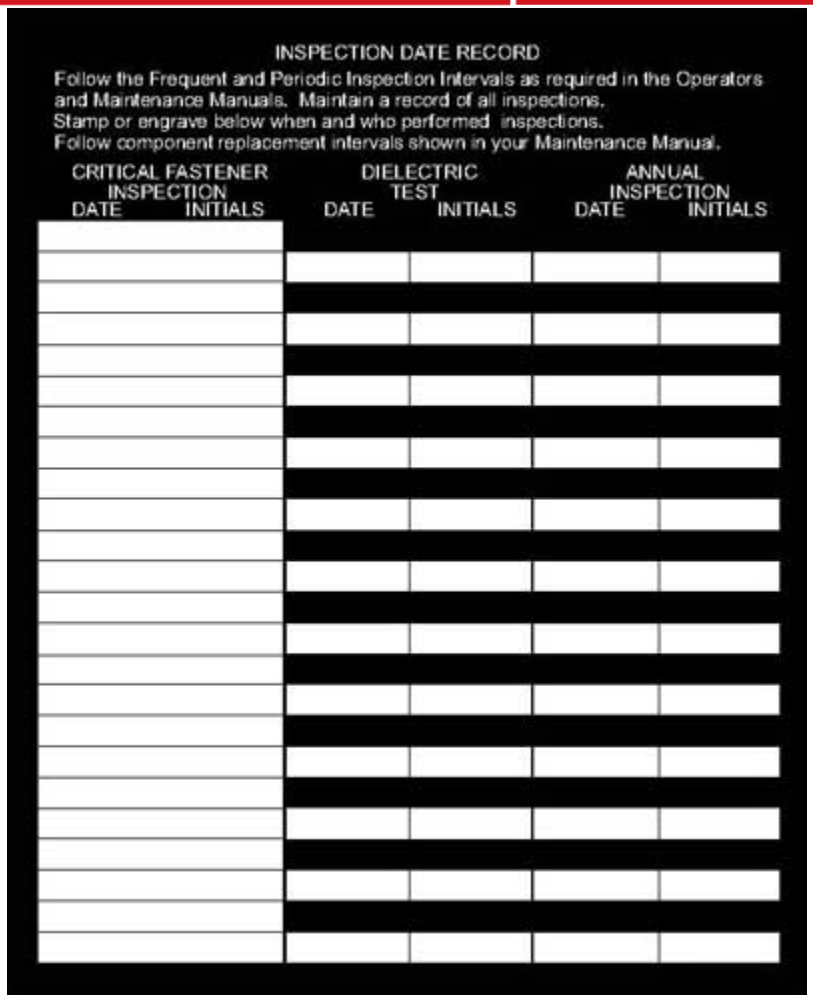
If you find a loose fastener as defined in PA 1016 found on the Terex Utilities website, it must be replaced. The fastener on each side of the loose fastener must also be replaced. If a loose bolt also uses a nut, they both must be replaced. Consult the maintenance manual for specific procedures.

Step 7

If there are two or more fasteners next to each other that are loose, replace all fasteners, upper and lower.

Step 8

Scribe or stamp the inspection date on the placard that is attached to the unit. The information would be entered under the “Critical Fastener Inspection” column.



INSPECTION DATE RECORD

Follow the Frequent and Periodic Inspection Intervals as required in the Operators and Maintenance Manuals. Maintain a record of all inspections.
Stamp or engrave below when and who performed inspections.
Follow component replacement intervals shown in your Maintenance Manual.

CRITICAL FASTENER INSPECTION		DIELECTRIC TEST		ANNUAL INSPECTION	
DATE	INITIALS	DATE	INITIALS	DATE	INITIALS

This placard has been installed during manufacture of our units since March of 2010.

Placards for older units can be ordered through your local distributor: P/N 489119

Step 9

Document this inspection, and place this record of inspection in the units maintenance file.