

**Terex Utilities****SAFETY NOTICE****SN687****DATE:** 11/16/2020**REVISED:****TO:** Owners, Users, Dealers, and Installers**MODELS AFFECTED:** TL80 & TL100**SUBJECT:** Rotation Bearing Bolts**Issue:**

Terex Transmission TL models TL80 & TL100 aerial devices, produced from April 2019 through August 2020, may have rotation bearing bolts that will loosen. The loosening of the bearing bolts may cause the bearing bolts to fail. **Failure of the rotation bearing bolts could cause the boom to fall which could result in injury or death.**

**Action:****What the Owner Must Do:**

The owner must inspect their equipment and correct if required:

1. Immediately inform all users, operators, and supervisors that the rotation bearing bolts must be inspected daily before use.
2. Inspect to determine if it has loose rotation bearing bolts using the following figures as reference. All rotation bearing bolts must be inspected; both the rotation bearing bolts connecting the rotation bearing to the pedestal and the rotation bearing bolts connecting the rotation bearing to the turntable need to be inspected. The rotation bearing bolt inspection only applies to units without a hydraulic lift.



**Figure 1. Area of unit to inspect rotation bearing bolts**

- a. The inspection involves a torque check on all rotation bearing bolts using a calibrated torque wrench. The torque required for the rotation bearing bolts on the TL80 & TL100 is 350 ft-lbs.
- b. Any loose bearing bolts are to be retorqued to 350 ft-lbs using a calibrated torque wrench. For this issue, any loose bolts can be retorqued without replacement. Any

- missing bearing bolts and/or washers are to be replaced with new hardware using the parts section of the manual to determine the correct bolt and/or washer part numbers.
- c. After the rotation bearing bolts are retorqued, apply torque striping across the bolt head and washer to the bolting plate to aid in daily visual inspections.
3. After retorquing all rotation bearing bolts, the unit can be used following the instructions in the continued use section below as well as all operator, maintenance, and inspection requirements as specified in the manuals.

## Continued Use:

Inform the users of the content of this bulletin and remind them of the daily pre-shift inspection requirements.

1. Inspect the rotation bearing bolt torque stripe daily before use until Field Service Kit Z1604 is installed, using the above picture as reference.
  - a. If the torque stripe is intact and/or the washers do not move on all rotation bearing bolts machine use can continue until Field Service Kit Z1604 is installed, following all operator, maintenance, and inspection requirements as specified in the manuals and this bulletin.
  - b. If the torque stripe is broken or the washer is loose on any of the rotation bearing bolts, retorque the bolt to 350 ft-lbs with a calibrated torque wrench. After retorquing any required bolts, machine use can continue following the daily visual inspection and retorquing as needed until Field Service Kit Z1604 is installed.
2. Every 30 days after the initial torque check (Step 2 of the Action), perform a torque check on all rotation bearing bolts following the same procedure as in Step 2 of the Action.
3. Continue with the daily visual inspection of the rotation bearing bolts and 30-day torque checks until Field Service Kit Z1604 is installed.
4. Within 10 days of receiving this bulletin contact Terex Utilities; through your nearest TEREX Utilities dealer as shown on the web site, [terexutilities.com](http://terexutilities.com), call Terex Utilities Warranty Department at 1-844-837-3948 or by email at [utilities.warranty@terex.com](mailto:utilities.warranty@terex.com) to arrange for repair.
5. Always follow inspection and maintenance requirements as specified in the manuals. After Field Service Kit Z1604 is installed, follow Terex Utilities Product Advisory PA 1016-08 for future torque checks.

## What Terex will Do:

Terex will provide Field Service Kit Z1604, parts and labor, at no cost to the customer. The Field Service Kit Z1604 provides replacement rotation bearing bolts, washers, pedestal reinforcement plates, and bolt spacers.

Contact Terex Utilities; through your nearest TEREX Utilities dealer as shown on the web site, [terexutilities.com](http://terexutilities.com), call Terex Utilities Warranty Department at 1-844-837-3948 or by email at [utilities.warranty@terex.com](mailto:utilities.warranty@terex.com) to arrange for repair within 10 days of receiving this bulletin. If you have sold the unit involved in this bulletin forward this bulletin to the new owner within 10 days and notify Terex of the serial number and contact information for the new owner.

**Dealers and Installers:** A letter is being sent to owners of affected units. If affected units are in your area TEREX Utilities will contact you to arrange the repairs. Inform owners it will take approximately 6 hours to complete the repair.

Only TL80 & TL100 models are involved with the rotation bearing bolt issue, the hydraulic elevator TL80/112 models are not involved. If the owner contacts you call TEREX Utilities Warranty Department at 1-844-837-3948 for instructions and to arrange shipment of parts.

Affected units, as shown on the owner letter, will have the repairs performed at no charge to the owner. Free replacement is not mandatory for upgrades or improvements.

**Important:** Some of the involved units may be in rental fleets. Federal Law requires you to complete the recall service on these units before renting, or to inform the renters within 10 days of receipt of this bulletin.

**Note to Owners:** If the manufacturer or their dealer has failed or is unable to remedy the defect/noncompliance condition without charge or within a reasonable amount of time you can notify:

Administrator  
National Highway Traffic Safety Administration  
1200 New Jersey Avenue, SE, West Building  
Washington, DC 20590

Or call the toll-free DOT auto Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153; or go to <http://www.safercar.gov> .)

Terex and local industry standards (CSA and ANSI) requires that the purchaser of a Terex unit report to Terex the model and serial number of each machine sold, as well as the name, address, and telephone number of the new owner, within 60 days of the sale. Use the Owner Update Form in the manual to update the owner status of any of your machines. Terex also asks the seller to provide the new owner information so if you require additional copies of the Owner Update Form or have any questions, please contact TEREX Utilities Warranty Department at 1-844-837-3948 or [utilities.warranty@terex.com](mailto:utilities.warranty@terex.com).

Terex, OSHA and local industry standards, also require that the manufacturer's bulletins be completed. It is your responsibility to communicate this important information to all machine owners and applicable branches. If you require additional copies of this bulletin or have any questions, please contact TEREX Utilities at 1-844-837-3948 or [utilities.warranty@terex.com](mailto:utilities.warranty@terex.com).