

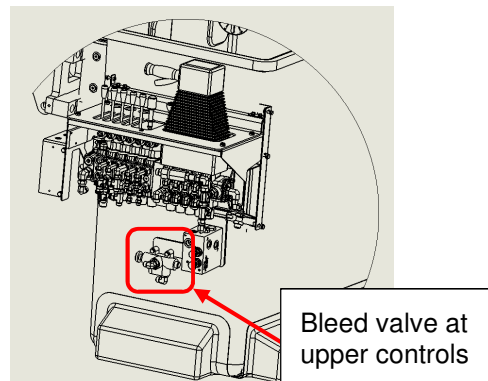
**Terex Utilities****PRODUCT NOTICE****PN689****DATE:** 4/14/2021**REVISED:****TO:** Owners, Users, Dealers, and Installers**MODELS AFFECTED:** TL80, TL80/112, & TL100**SUBJECT:** Leveling System**Issue:**

Terex Transmission TL models TL80, TL80/112, & TL100 aerial devices, produced from March 2019 through August 2020 may have unsatisfactory performance of the leveling system due to leveling cylinder bypassing. **Failure to correct the indicated issues may result in the platform not leveling properly.**

**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 leveling system must be inspected daily before use.
2. Inspect the unit's leveling system to determine if it has the following conditions using the figures as reference. The conditions below apply to all Transmission TL models (TL80, TL80/112, and TL100).
  - Addition of a leveling system bleed kit – Field Service Kit Z1584  
Leveling bleed kit may have been added to allow any trapped air to be bled from the leveling circuit. Trapped air could result in delayed leveling response. If either method shown below was installed, the bleed kit is not needed.



**Figure 1. Bleed kit with bleed valve at upper controls**



**Figure 2. Bleed kit with quick couplers at boom tip**

- Replacement elbow leveling cylinder (Field Service Kit Z1607) and boom-tip leveling cylinder (Field Service Kit Z1608)  
 Inspect elbow and boom-tip leveling cylinders to identify the leveling cylinder using the figures below. If both cylinders have the smooth weld transition from the rod eye to the rod, the cylinders do not need to be replaced.



**Figure 3. Elbow leveling cylinder location**

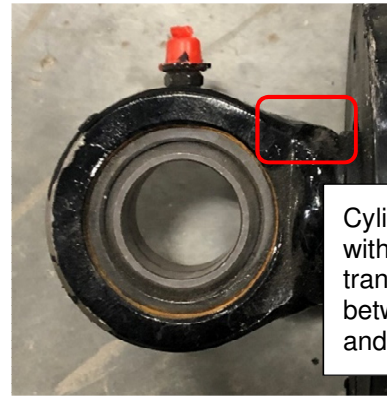


Cylinder rod eye with weld hump between rod eye and rod to be replaced.

**Figure 4. Cylinder to be replaced**



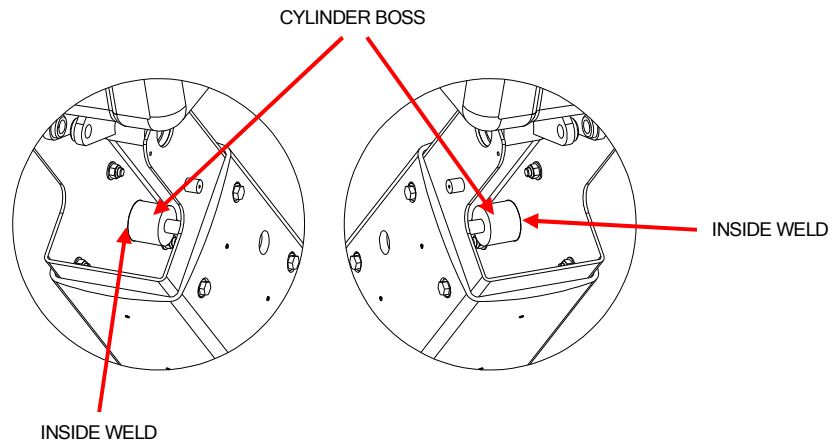
**Figure 5. Boom-tip leveling cylinder location**



Cylinder rod eye with smooth weld transition between rod eye and rod is correct.

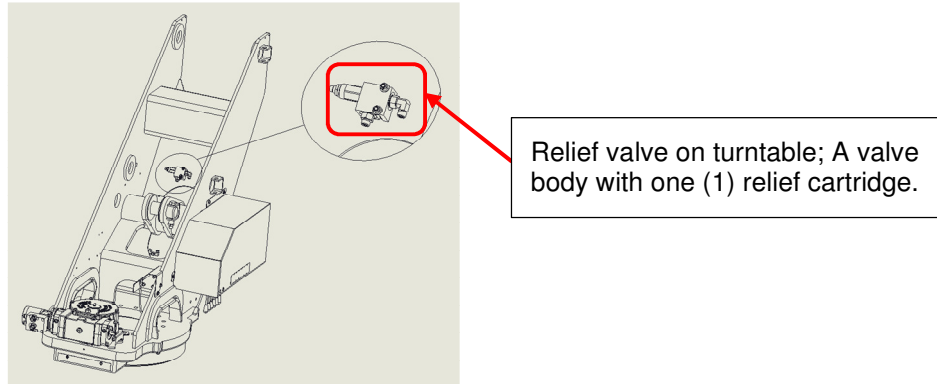
**Figure 6. Cylinder that is correct**

- Boom-tip leveling cylinder support boss inside weld – Field Service Kit Z1609  
 Some boom-tip leveling cylinder support bosses may not have been welded on the inside of the boom.



**Figure 7. If the boom-tip leveling cylinder support bosses are not welded on the inside as shown, this bulletin applies**

- Addition of a relief for the isolation valve – Field Service Kit Z1611  
The isolation relief valve for the leveling circuit is being added to protect the elbow leveling cylinder from damage in case the operator functions boom controls while also using the manual leveling control.



**Figure 8. If the valve shown is present, this bulletin may not apply**

3. If all of the above leveling updates have not been completed, the unit must not be used unless the instructions in the continued use section below are followed.
4. If all of the above leveling updates have been completed, the unit can be used following all operator, maintenance, and inspection requirements as specified in the manuals provided all other items in this bulletin are completed.

### **Continued Use:**

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

1. Inspect the leveling system daily per the manual before use: for any damage to leveling components and for proper function of the leveling system when the boom is operated through its full range of motion. If there is no damage to any leveling system component and the leveling function performs properly, machine use can continue until Field Service Kits Z1584, Z1607, Z1608, Z1609, and Z1611 are completed following all operator, maintenance, and inspection requirements as specified in the manuals. If any leveling component is damaged or the leveling system does not operate properly do not use the machine until Field Service Kits Z1584, Z1607, Z1608, Z1609, and Z1611 are completed.
2. 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.
3. Always follow inspection and maintenance requirements as specified in the manuals.

### **What Terex will Do:**

Terex will provide the Field Service Kits listed below, parts and labor, at no cost to the customer through December 31, 2021. The Field Service Kits make the following improvements:

- Z1584 – Bleed kit for leveling system
- Z1607 – Replacement elbow leveling cylinder
- Z1608 – Replacement boom-tip leveling cylinder
- Z1609 – Boom-tip leveling cylinder pin boss weld (no parts required)
- Z1611 – Add relief valve to rod end of elbow leveling cylinder circuit

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 may take approximately 6 hours for all repairs if needed.

The TL80, TL80/112, & TL100 models are involved with the leveling issues. 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. Terex requires you to complete the service on these units before renting, or to inform the renters within 10 days of receipt of this bulletin.

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 require that the manufacturer's bulletins be completed. It is important for everyone to communicate this important information to all machine owners. If you require additional copies of this bulletin or have any question, please contact Terex Utilities at 1-844-837-3948.