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DEFECTS INVESTIGATION  
RECALL MGMT DIV.

November 14, 2007

Ms. Patricia Wallace  
Recall Management Division  
National Highway Traffic Safety Administration  
400 Seventh Street S.W.  
Washington, D.C. 20590

07V-558  
(7 pages)

Dear Ms. Wallace:

I am writing to inform you of our evaluation of the torque specification in the turntable bearing bolts on our TZ-34 and TZ-50 trailer mounted aerial work platform booms. Genie Industries has discovered that the subject models may have turntable bearing bolts that were under torque. Bolts that were under torque can come loose overtime. This could cause the turntable lift structure to separate from the chassis resulting in the platform falling.

As a result of our investigation on this matter, Genie has now determined that a potential safety situation could occur and has decided to conduct a recall to torque the turntable bolts to specification on all potentially affected machines. Genie will conduct a notification and remedy campaign under the Vehicle Safety Act. Accordingly, we are submitting the enclosed Information Report containing the information required by Part 573 of your regulations, as well as a draft customer notification letter. Genie is prepared to start the campaign promptly after receiving your approval of the draft customer notification letter.

Genie will submit quarterly reports, pursuant to 49 CFR part 573.3 (a) and 573.5 as this recall progresses.

If you have any questions or need additional information, please feel free to contact me directly at 425-556-8663.

Sincerely,  
Genie Industries, Inc.

Richard M Curtin  
Product Safety Manager



070009 INFORMATION REPORT  
(NHTSA RECALL NOTICE \_\_\_\_\_ )

- 1. Manufacturer's name/address:** Genie Industries Inc. ("Genie") is the manufacturer of the subject trailer mounted, articulating boom supported, aerial work platforms.
- 2. Vehicle involved in this notification:** The following model of Genie trailer mounted booms is subject to this recall:

Genie TZ-34 produced between May 11, 2007 and September 12, 2007  
Genie TZ-50 produced between May 17, 2007 and August 28, 2007

These production dates cover 100% of the TZ-50 trailer mounted booms manufactured in the time frame listed above. Affected models can be identified by verification of the model, serial number and model year found on the serial plate as follows:

**Model year serial numbers affected:**

TZ-34 2007	TZ3407-450 to TZ3407-526
TZ-50 2007	TZ5007-300 to TZ5007-356

- 3. Total number of vehicles:** The number of U.S. vehicles affected by this recall is approximately 78.
- 4. Approximate percentage of vehicles estimated to actually contain the condition:** Genie Industries does not know the percentage of vehicles actually exhibiting the condition; therefore, this campaign will include 100% of the vehicles identified in items 2 & 3, above.
- 5. Description of the issue:** Genie Industries, Inc. ("Genie") has discovered that certain TZ-34 and TZ-50 machines may have turntable bearing bolts that were under torqued. **Bolts that were under torqued can come loose over time. This could cause the turntable lift structure to separate from the chassis, resulting in the platform falling.**
- 6. Chronological summary of events leading to this determination:** Genie Industries first became aware of the issue in August, 2007 when manufacturing SOP audit was performed. It was discovered that the production line was using the bolt torque specification for the TZ34 lower bearing bolts on all turntable bearing bolts for the TZ-34 and TZ-50 machines. In this condition, separation of bearing surface from chassis or swing may result in further loosening of the bolts, fatigue on bolts or instability of the swing chassis. Genie has now concluded that if the bolts are not torqued to specification, the bolts can come loose over time. This could cause the turntable lift structure to separate from the chassis, resulting in the platform falling. As a result, Genie has now determined that a potential safety situation could occur and has decided to conduct a recall to torque the turntable bearing bolts on all potentially affected machines to specification.



**7. Description of proposed remedy:** Genie will conduct a recall by sending a Safety Recall Notice that satisfies the requirements of 49 CFR part 577.5 to all purchasers and dealers who might be affected by the recall. Notification will begin 2 weeks from receipt of your reply to this letter and approval of the draft bulletin, and will be completed one week after notification is first sent. Along with the Safety Recall Notice, Genie will provide a set of instructions on how to torque the bolts to specification.

**8. Program for remedy campaign (including program for reimbursing any consumer who obtained the remedy at his/her own expense) of this report:** See description of remedy campaign in Item 7, above. Genie will reimburse any owner who torques the bolts to specification on a subject vehicle for reasons related to this recall. Consistent with §573.13 of NHTSA's regulations, Genie will require documentation of the amount paid by the owner for the repair, and documentation that the repair costs were incurred for reasons related to this recall.



## SAFETY RECALL NOTICE NUMBER 070009 (NHTSA RECALL NOTICE \_\_\_\_\_)

Date

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Genie Industries, Inc. ("Genie") has decided that a defect exists in the assembly of the turntable bearing bolts on our TZ-34 and TZ-50 trailer mounted aerial work platform booms.

### ***The reason for this recall...***

Genie Industries, Inc. ("Genie") has discovered that certain TZ-34 and TZ-50 machines may have turntable bearing bolts that were under torqued. Bolts that were under torqued can come loose over time. This could cause the turntable lift structure to separate from the chassis, resulting in the platform falling.

This recall applies to all North American TZ-34 trailer mounted booms from serial number TZ3407-450 to TZ3407-526 and TZ-50 trailer mounted booms from serial number TZ5007-300 to TZ5007-356.

### ***What we are asking you to do...***

Enclosed is a list of machines shipped to your location per Genie's records. Using this list, please confirm that all machines sent to your location are accounted for. Verification of the model, serial number and model year can be found on the machine serial plate.

1. Locate all machines within the serial number range.
2. Follow the procedures in this recall notice to torque the turntable bearing bolts to specification. **This must take place as soon as possible, but not later than 30 days from receipt of this bulletin.**
3. Fill out and sign the completion form **included in this bulletin** and fax to Genie's warranty department to verify that this campaign bulletin has been completed.

**TZ-34 models: Upper turntable bearing bolt torque procedure.**

Note: Perform this procedure with the machine on a firm level surface.

1. Deploy the outriggers and level the machine.
2. Lower the secondary (lower boom) to the stowed position.
3. Raise the primary (upper) boom enough to gain adequate access to the left side turntable cover.

**⚠** Electrocution/burn hazard. Contact with hot or live circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

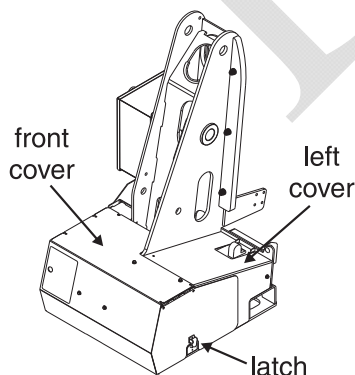
4. Disconnect the batteries and remove the key.
5. Unlatch the left cover and remove the turntable front and left side covers. See illustration 1.
6. Remove the swing motor retaining screws and set the swing motor to the side. See illustration 2.

Note: It is not necessary to disconnect the hydraulic lines.

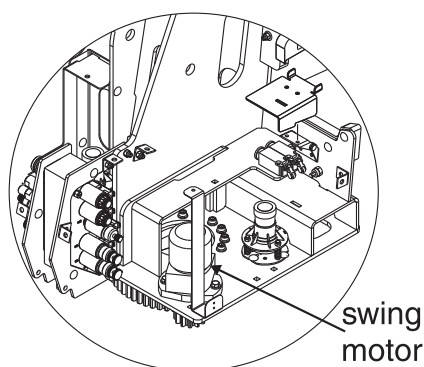
7. Using a torque wrench, torque each turntable bearing bolt (Genie P/N 74712,  $\frac{5}{8}$ -11 x 2.75) to 195 ft-lbs / 264 Nm. Mark each bolt as it is torqued. Use the torque sequence as shown in illustration 3.

Note: The TZ-34 lower turntable bearing bolts are not part of this bulletin. Use the established maintenance tables for inspection and torque.

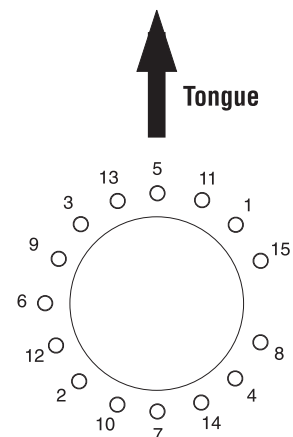
8. Secure the swing motor back in place.
9. Connect the batteries.
10. Close and secure the front and left covers.
11. Return the machine to service.



**Illustration 1**



**Illustration 2**  
Page 2 of 4

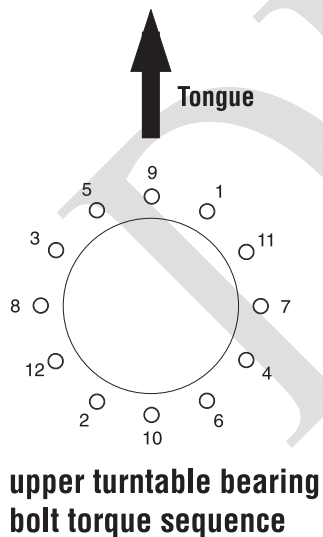


**Illustration 3**

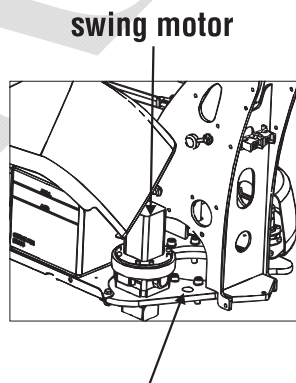
**TZ-50 Models: Upper and lower turntable bearing bolt torque procedure.**

Note: Perform this procedure with the machine on a firm level surface.

1. Deploy the outriggers and level the machine.
2. Raise the secondary (lower) boom enough so the platform and boom structures will clear the chassis when rotated.
3. Unlatch and lift the left and right turntable tray covers to gain access to the turntable bearing bolts.
4. Using a torque wrench, torque each upper turntable bolt (Genie P/N 74712 -  $\frac{5}{8}$  x 2.75 SHC) to 195 ft-lbs / 264 Nm. Mark each bolt as it is torqued. Use the torque sequence in illustration 4.
5. Rotate the turntable structure to align the lower turntable bearing bolt access hole to each lower turntable bearing bolt. See illustration 5.
6. Using a torque wrench, torque each lower turntable bearing bolt (Genie P/N 74712 -  $\frac{5}{8}$  x 2.75 SHC) to 195 ft-lbs / 264 Nm. Mark each bolt as it is torqued. Use the torque sequence in illustration 6.

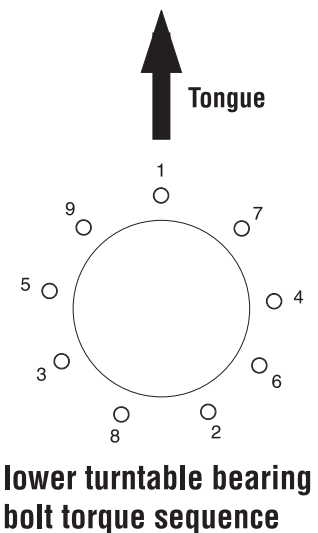


**Illustration 4**



**Lower turntable bearing bolt access hole**

**Illustration 5**



**Illustration 6**



***If you are the lessor of any of the affected vehicles ...***

If you are the lessor of this vehicle, federal law requires you to forward this notice to the lessee within ten days of your receipt of this letter.

***If you need help...***

If you have questions or concerns regarding this recall, please contact Genie or the service manager at your local dealer. If Genie or your dealer fail or are unable to remedy the defect without charge or within a reasonable time, you may also submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street S.W., Washington, DC 20590, or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

We are sorry for any inconvenience this recall may cause. We are intensely concerned for the safety of our customers and sincerely appreciate your efforts. Thank you for your attention to this important matter.

Sincerely,  
Genie Industries, Inc.

Enclosures:

- List of machines shipped to your location
- Completion form
- Machine location record