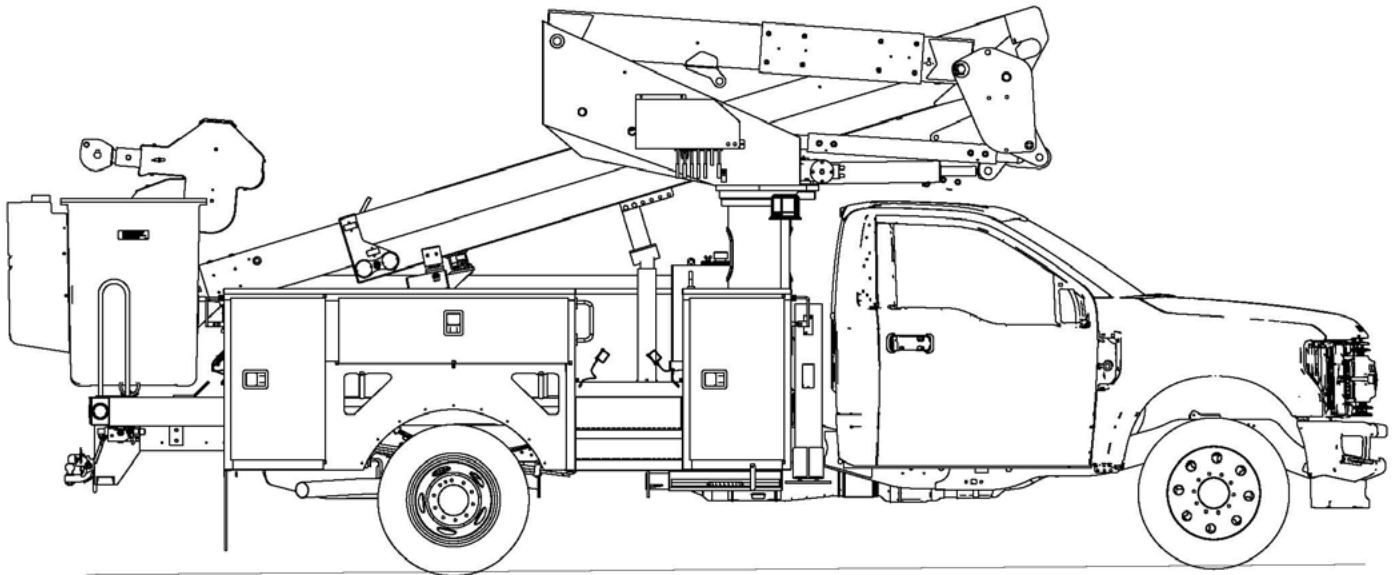




TECH TIPS

ROTATION BEARING DEFLECTION TEST

NO. 49



SERVICE CALL:
ROTATION BEARING DEFLECTION
TEST



MODEL(S):
LT, TPL, TLM



TOOLS NEEDED:
DIAL INDICATOR WITH MAGNETIC
BASE
UNIT SPECIFIC MAINTENANCE
MANUAL

TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM



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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- | Check for obstructions
- | Attach the dial indicator

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- | Zero out dial indicator
- | Raise the lower boom

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- | Read and record value on the dial indicator

STEP 7

STEP 1

Read this entire procedure and the section in the maintenance manual that applies to this procedure before starting the work.

STEP 2

Position the truck in a suitable location, check for overhead obstructions, and set the outriggers. There can be no additional tools or materials in the platform, except for a platform liner.

STEP 3

Check for obstructions, then raise upper boom to the vertical position. Do not rotate the boom.
Figure 1



FIGURE 1

STEP 4

Attach the dial indicator base to the pedestal, positioning the tip perpendicular to the edge of the turntable bottom plate at the specified indicator radius.

Note: Consult the table at the end of this document for the dial indicator radius for your specific unit.

Note: Ensure you know which way the dial indicator will rotate when performing the test to get the correct reading. **Figure 2**

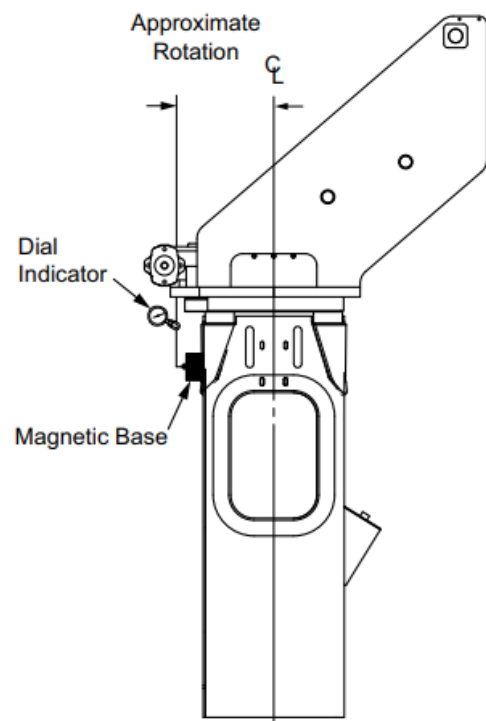


FIGURE 2

STEP 5

Zero out the dial indicator. Verify that you have at least .25 inches of movement on the dial indicator in both directions when zeroing.

STEP 6

Raise the lower boom to the vertical position with the upper boom horizontal. Fully extend the upper boom. Do not rotate the boom. **Figure 3**



FIGURE 3

STEP 7

Read the number on the dial indicator. This is your rotation bearing deflection. Record the reading and check this reading against the “Maximum Allowable Bearing Deflection” in the following table.

Note: This value is based on a specific dimension of the reading from the centerline of rotation. This dimension is given with the maximum deflection.

Note: Measure the deflection at the same boom location and dial indicator radius every time this test is performed to provide consistent measurements that can be compared over the life of the machine.

Figure 4

| Unit | Manual | Indicator Radius | Max Deflection |
|--------------------------|--------|------------------|----------------|
| LT40/LTM40 | 463067 | 11.50 | 0.176 |
| TPL | 463668 | 11.50 | 0.176 |
| TL37-TL60 | 463209 | 11.50 | 0.144 |
| TL80, TL100, TL80/112 | 622972 | 15.5 | 0.176 |

Unit Specific Maximum Allowable Bearing Deflection

FIGURE 4



FOR FURTHER ASSISTANCE,
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PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: **UTILITIES.SERVICE@TEREX.COM**
