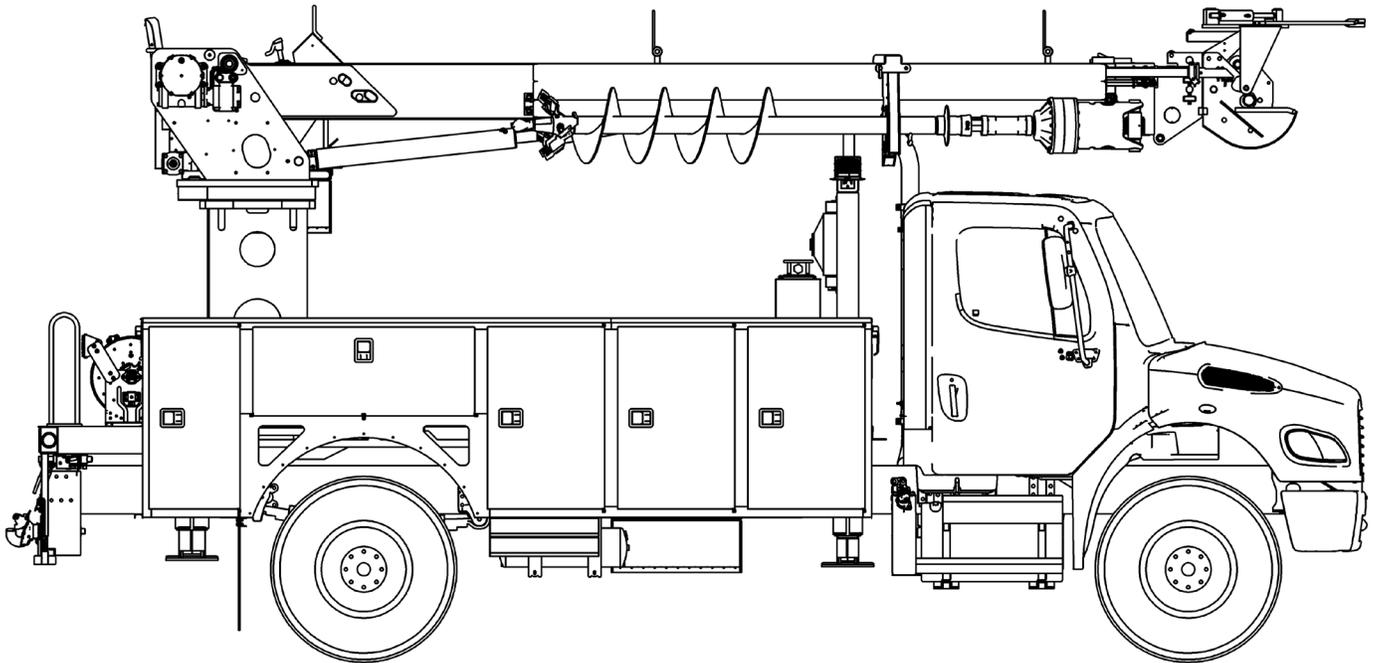




TECH TIPS

ADJUSTING ELECTRICAL OUTRIGGER INTERLOCK SWITCHES

NO. 176



SERVICE CALL:
ADJUSTING ELECTRICAL
OUTRIGGER INTERLOCK
SWITCHES



MODEL(S):
ALL TEREX UTILITIES EQUIPMENT
NOT UTILIZING ROLLER
SWITCHES



TOOLS NEEDED:
HAND TOOLS
MULTIMETER OR CONTINUITY
TESTER

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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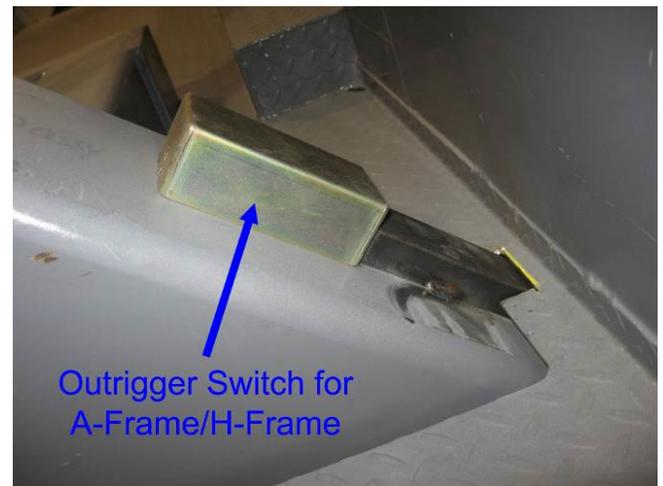
INTRODUCTION

Outrigger interlocks are an operator aid. If installed on the unit, the switches must be operable and intact. Any modifications must be approved by the manufacturer in writing. Do not operate the unit if interlock system is bypassed or inoperable.

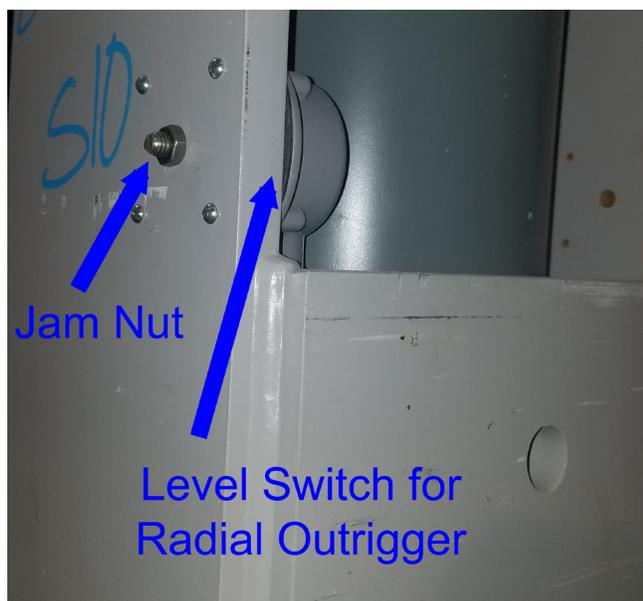
Interlock bypasses the flow of oil to prevent boom from raising out of the rest.

STEP 1

Locate the outrigger switches. A-frame or H-frame outriggers will have a box on the outrigger leg. Continue to Step 2 for A-Frame/H-Frame Outriggers.



Radial outriggers will have a circular box on the inside of the outrigger. Go to Step 7 for Radial outriggers.



STEP 2

Lower the outriggers and examine the outrigger switches. If it is worn or bent, replace the switch. The outriggers can be lowered to replace the switch, but they must be retracted to set the switches.

STEP 3

Loosen the two screws on the side of the plate.



STEP 4

Disconnect the weather pack connectors.

Using a multimeter set to continuity, place the two leads in the weather pack for the outrigger switch.

Push down the outrigger switch against the inner outrigger leg until the multimeter is showing no continuity or OL, then tighten the 2 screws on the side.

Repeat this step for all outrigger switches.

When an outrigger switch is set, connect the switch back to the wiring harness.

Note: Pushing the switch all the way down can cause the arm to stick on the housing, preventing the interlocks from working correctly. This can cause the switch to prematurely fail.

STEP 5

Confirm outrigger operation by lowering all outriggers and verifying that the boom can be raised out of the rest. If the boom will not raise, recheck each of the switches.

If the boom can be raised, verify each outrigger switch individually. To do this, raise one outrigger high enough to trip the switch and try to raise the boom. If the boom does not move, lower the outrigger, and repeat this test for each of the outriggers.

If the boom does move with any of the outriggers raised, make sure the outrigger is high enough to trip the switch. If needed remove the switch to further troubleshoot.

Contact Terex Utilities Technical Support at 1-844-Terex4U (1-844-837-3948) or utilities.service@terex.com for troubleshooting assistance.

STEP 6

Once the operation of the interlock is confirmed, install the covers on the outrigger switches. The remaining steps are only for Radial Outriggers.

STEP 7 (Radial Outriggers)

For radial outriggers, lower the outrigger from its stored position down between 0 degrees to +10 degrees. Use a digital level if needed.



STEP 8 (Radial Outriggers)

○ Disconnect the weather pack connector.

Using a multimeter set to continuity, place the two leads in the weather pack for the outrigger switch and loosen up the jam nut.

If no continuity is shown, adjust the switch until continuity is present, then tighten the jam nut. If continuity is shown, adjust it until continuity is lost. Then adjust again until continuity is present, then tighten the jam nut.

When the outrigger switch is set, connect the weather pack to the wiring harness.



STEP 9

○ Confirm outrigger operation by lowering all outriggers and verifying that the boom can be raised out of the rest. If the boom will not raise, recheck each of the switches.

If the boom can be raised, verify each outrigger switch individually. To do this, raise one outrigger higher than 10 degrees and try to raise the boom. If the boom does not move, lower the outrigger, and repeat this test for each of the outriggers.

If the boom does move with any of the outriggers raised, make sure the outrigger is high enough to trip the switch. If needed remove the switch to further troubleshoot.

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FOR FURTHER ASSISTANCE,
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