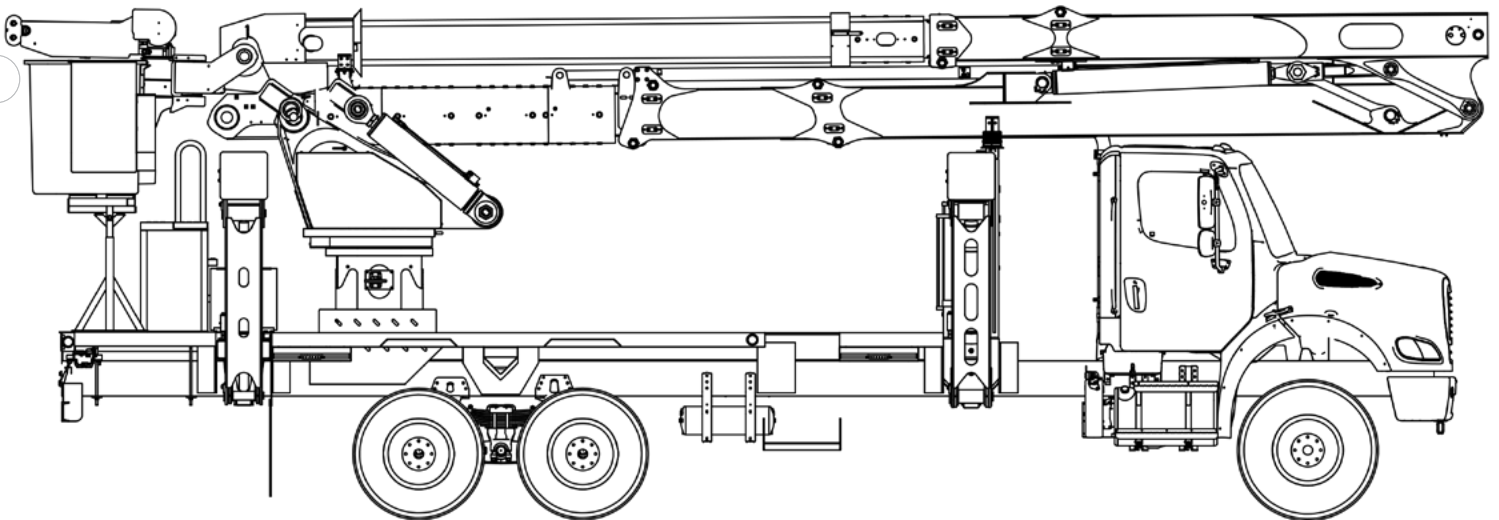




TECH TIPS

INSTALLING COAXIAL CABLE

NO. 103



SERVICE CALL:
INSTALLING COAXIAL CABLE



MODEL(S):
TM MODELS WITH COAXIAL
CABLE INSTALLED



TOOLS NEEDED:
SOLDER IRON
SIMPLE HAND TOOLS

TEREX UTILITIES TECHNICAL SUPPORT TEAM

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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

Note: Coaxial cable is used for the leakage monitoring system. Reference drawing 474914

Note: Only use flex core coaxial cable for this application. Solid core coaxial cable is too rigid, causing it to fatigue and fracture.

STEP 1

Connect a 16-gauge shielded black wire (78139) with a 1/4 eyelet on one end and #10 stud opening on other (H32071) from the test band in the upper boom to the terminal block assembly. A 1/4 nut is required to connect to the test band (43655). Connect the jumpers at the terminal block assembly. **Figure 1 and 2**

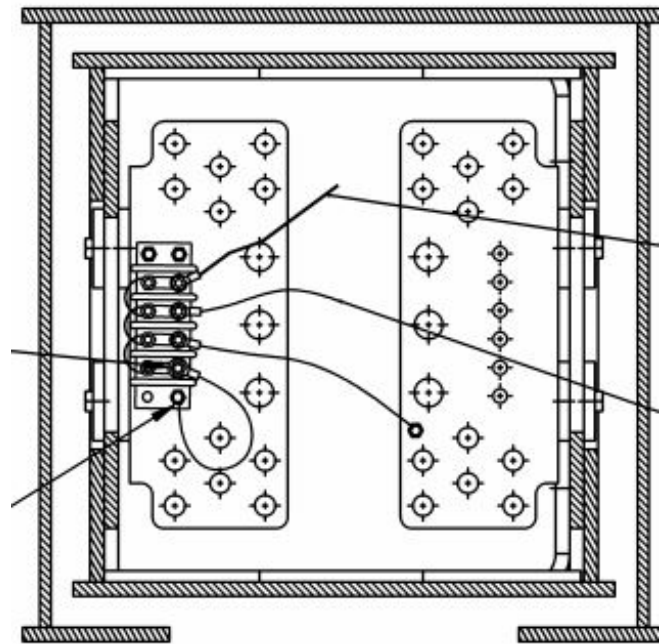


FIGURE 1



FIGURE 2

STEP 1 (Continued)

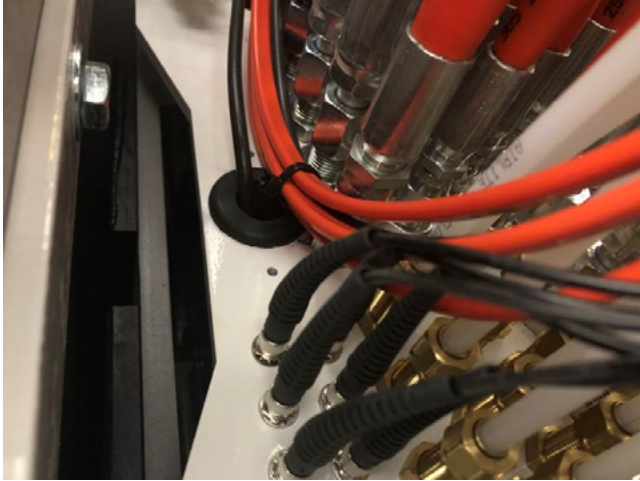
Note: Do not terminate the shield wires on the terminal strip. When terminating the wire, push the shield down and put heat shrink over them.



STEP 2

Run coaxial cable from the terminal strip at the upper boom to the test terminal at the lower boom extension cylinder pin weldment. Use grommet (89335) at the lower boom bulkhead to protect the wire.

Excess wire cannot go past the arrows in the fiberglass insert. When connecting at the terminal strip the braid does not need to be connected.



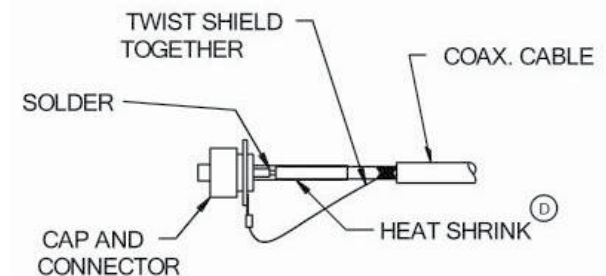
STEP 3

Cut the coaxial cable at the lower boom knuckle and create a connection at the bulkhead by using an adapter (622888) and two male connectors (490267). Leave enough wire for a service loop.



STEP 4

Solder the coax cable to the terminal at the lower boom



STEP 5

If this is a Category B unit, use a jumper from the test locations at the lower boom to the lift cylinder.

If this is a Category A unit, there will be a terminal installed on each side of the insert. A jumper wire is required from each terminal to do the leakage testing.

The terminal at the cylinder pin goes to the back side of the mast.



STEP 6

Ports are located at the back of the mast on the street side. The left port is used to power the leakage meter. The right is the test location for the boom. Use jumpers from this point to the VON meter.



STEP 7

Consult the dielectric section in the unit specific maintenance manual for additional information on how to properly test the unit for leakage.

Note: The lower boom insert must be jumped to use the meter at the console or at the turntable. It must only be jumped when the unit is used for bare hand work and the bonding jumper bar is across the insert. If used for gloving or stick work the insert must not be jumped.



FOR FURTHER ASSISTANCE,
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