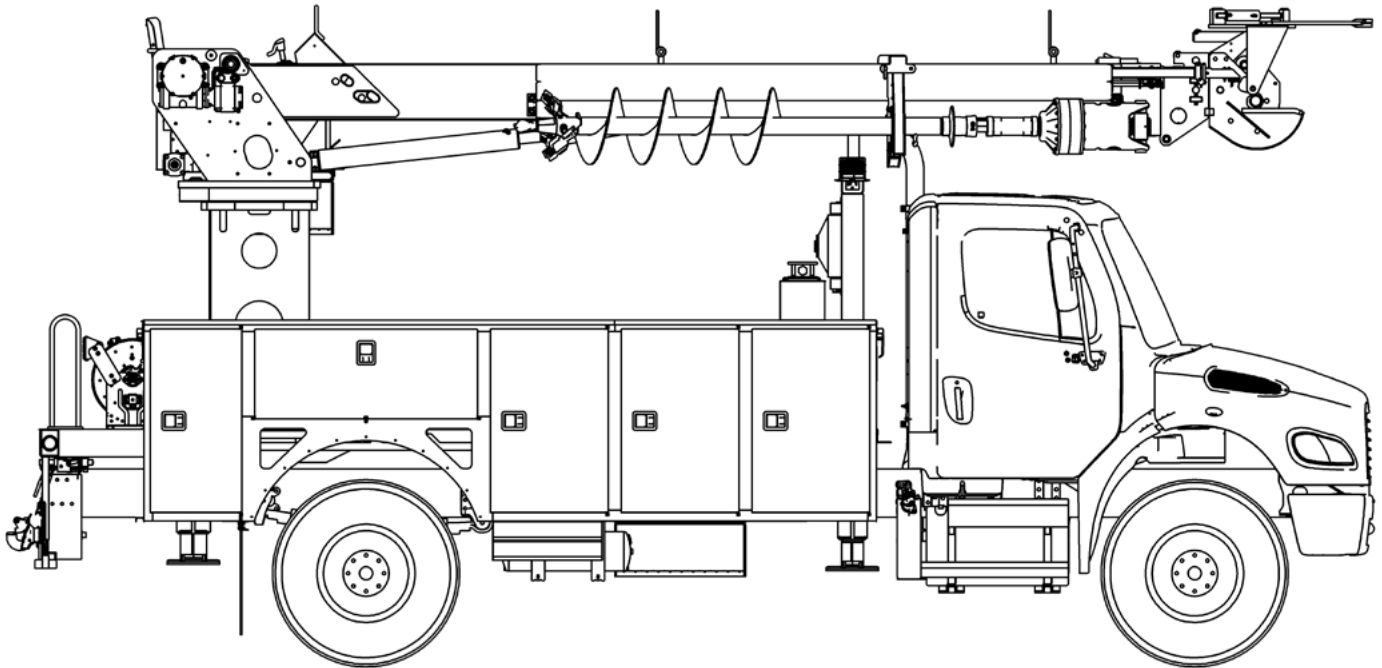




TECH TIPS

RE-HOSE DIGGER CTI (CONTROLS TOP INSULATED)

NO. 86



SERVICE CALL:
RE-HOSE DIGGER CTI



MODEL(S):
ALL TEREX DIGGER DERRICKS
WITH CTI




TOOLS NEEDED:
HAND TOOLS


TEREX UTILITIES TECHNICAL SUPPORT TEAM

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! WARNING



Injection Hazard
Fluid escaping under pressure can penetrate skin and result in death or serious injury.



Relieve pressure before disconnecting hydraulic lines.
Stay clear of leaks and pin holes. Use a piece of cardboard or wood to search for leaks. Do not use hand.
Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type of injury, or gangrene will result.



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.



TECH TIP 86 | RELEASED 09.21.2022 | VERSION 1.0
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STEP 1

Setup the unit in a suitable location to perform the work.

STEP 2

Raise the boom up to provide access to the hoses in the tower. Depending on the boom model and options it may require a boom angle of 25 degrees or more. **Figure 1**



FIGURE 1

STEP 3

Turn the truck off and release pressure in the hydraulic lines by functioning all levers at the command post/lower controls while the truck/pto is off. Label, cap and plug hydraulic hoses that will be changed on the CTI.

Note: If replacing multiple hoses make sure you have hoses clearly marked for each function. Avoid using markers that wash away with hydraulic oil.



Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. **DO NOT** use your hand.

STEP 4

Lower the boom and extend as needed to a comfortable working height and remove covers to gain access to the hoses.



STEP 5

To remove the clamp, remove the two screws holding it on the boom tip end of the hose carrier assembly.



STEP 6

Loosen up the rubber clamp in the catrack. This will allow the nonconductive hoses to easily move past the clamp.



STEP 7

Use precut hoses to the estimated length or setup spools of bulk hydraulic hose at the boom tip by putting them in a rack or making a stand that will allow the hose spool to rotate freely as the hose is pulled.

Label all hoses that will be disconnected before removing them from the valve that need to be changed. Cut off the hydraulic fittings from the hoses that need to be changed. Have a bucket or oil pan ready to catch oil from the hydraulic lines.

Note: Avoid using markers that will wash off with hydraulic oil.



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STEP 8

There are a few ways to pull hose through the catrack. Reference Tech Tip 151 to determine the most appropriate method.

Note: Do not pull the hose tight or leave too much slack in the new hose going through the catrack to prevent premature wear of the new hose. **Figure 6 and 7** are examples of properly tensioned hose:



FIGURE 6



FIGURE 7

STEP 9

Cut off the end of the hose that was used in Step 8 and crimp the ends of the hoses with the correct fittings and connect each end of the hose assembly.

Note: Follow the hose manufacturer's guidelines and specifications set for hose and fittings.

STEP 10

Replace all covers removed and tighten clamps. Function test the unit to verify operation and check for leaks.

STEP 11

Store the unit, retract outriggers and check the oil level in the reservoir, filling as needed.

Consult **Tech-tip 112** to determine the correct oil to use.



FOR FURTHER ASSISTANCE,
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