

**Service Call:**

Removal of Fiberglass Section on a  
Transmission TL

**Tools Required:**

Basic Hand tools  
Overhead Hoist

**Model(s):**

TL80, TL100, & TL80/112

## Tech Tip Safety Rules




### 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.

 **WARNING**



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.

Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene will result.

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## Step 1

Position the unit in a safe location with no overhead obstructions and plenty of room to the rear of the unit.



## Step 2

Remove all boom tip covers to gain access to the hose fittings.

## Step 3

To remove the jib assembly, clearly label the hoses, remove hose clamps, and disconnect the hoses.



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## Step 4

Use a suitable lifting device, such as an overhead hoist, to remove the jib assembly.



## Step 5

Remove the side and top wear pads by loosening the jam nuts and unthreading the wear pads.



## Step 6

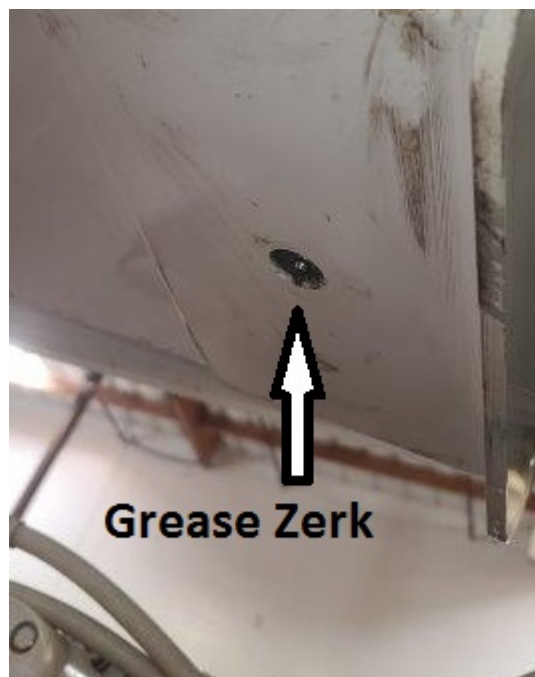
Position the upper boom at 0 degrees.



## Step 7

Using an overhead hoist, lift the fiberglass section to remove weight from the lower wear pad.

Remove the grease zerk from the wear pad and slide the wear pad out of the boom.



## Step 8

Using the Platform rotate function at the upper controls, rotate the platform to evenly distribute the weight to prevent it from rolling to one side when the upper boom is removed.

If this is a TL100, continue to Step 9.

For the TL80, the hoses will need to be disconnected at the lower controls, located on the side of the turntable, using labeled caps and plugs.

For a TL80/112, the hoses will need to be disconnected at the collector block using labeled caps and plugs. Then the hoses can be pulled thru the lower boom.

When this is done proceed to Step 14.



## Step 9 (TL 100 Only)

Remove the bottom cover of the upper boom to provide access to the junction manifold fittings.



## Step 10 (TL 100 Only)

Remove the 4 hex bolts that hold the junction manifold in place and allow it to hang down.



## Step 11 (TL 100 Only)

Remove the hoses at the junction manifold that are coming from the upper controls through the catrac, using labeled caps and plugs. Also disconnect the air lines.



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## Step 12

Remove the 4 fasteners that hold the catrac down in the metal section of the upper boom.



## Step 13

Remove hoses at the extension cylinder using labeled caps and plugs.



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## Step 14

Remove the extension cylinder pin, by first removing the pin retainer, either a set screw in the pin boss or snap rings on each end of the pin.

Then using a hammer and punch, remove the extension cylinder pin.



## **Step 15**

Carefully slide upper boom fiberglass section out of the steel section using proper rigging and lifting equipment.

## **Step 16**

Place fiberglass section on supports rated for the load.

## **Step 17**

Through the access hole in the fiberglass, support the end of the extension cylinder and remove the two 5/8" bolts holding the cylinder support bracket onto the cylinder.

## Step 18

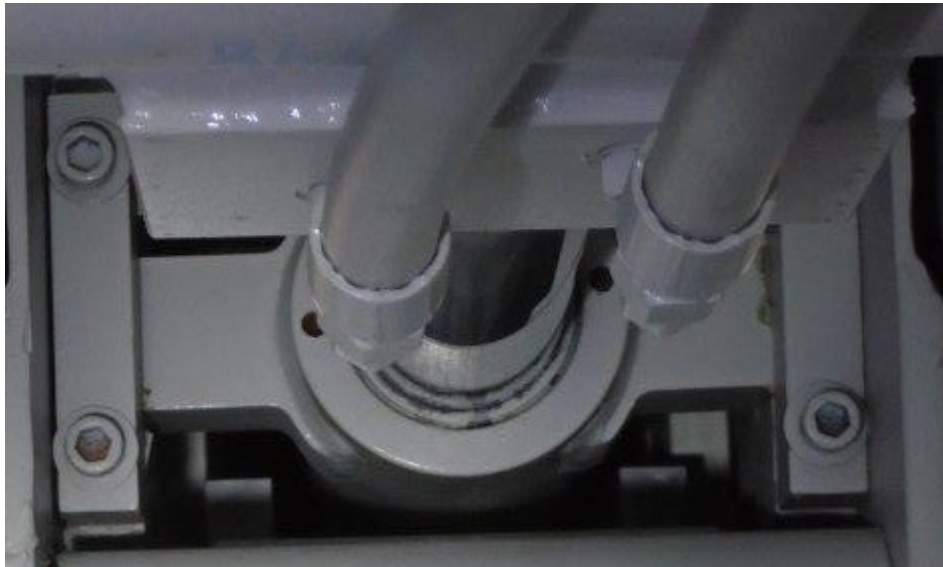
Remove the support bracket out through the access hole.

If cylinder support bracket does not have a steel reinforcement plate, then Z1606 kit is required to add the extension cylinder support bracket per SN690.



## Step 19

Remove trunnion bolts that hold the extension cylinder to the Fiberglass boom.



## Step 20

Using a suitable lift device and proper rigging, remove the extension cylinder from the boom by sliding it out.

Repair cylinder as needed and reassemble unit in reverse order.