

Service Call:

TM Roller Adjustment

Tools Required:

Allen Wrench set

Big Pipe Wrench

Blue Loctite

Tape Measure

7/16" Wrench and Socket

Flashlight

Model(s):

All TM Units

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.

H23877B

Step 1

Raise booms slightly out of the rest.

Step 2

Loosen up the 2 set screws on each roller cam.



Step 3

Mark roller cams on the high side of the cam and adjust cams so that it moves the rollers away from the boom.



Step 4

Upper Boom Roller Adjustment

Remove the knuckle cover to provide access to the center of the inner boom within the knuckle.

Step 5

Adjust roller cams by rotating them until the mark is now pointing at a 90-degree angle on both the top roller assembly and the bottom roller assembly. Look in the knuckle and verify that the boom is centered and square as well in the knuckle, metal to metal. If not adjust rollers until it is.

Once centered, remove the set screws, add blue Loctite and tighten down snugly as this keeps the cams from moving once adjusted.

Note: Make sure that the marks on the cams are pointing in the same direction on both sides. Failure to do so will cause the rollers to set offset from each other. Damage to the boom may happen if rollers are not aligned properly.

Step 6

TM 125 Intermediate Boom adjustment

Perform the Step 5 roller adjustment using a tape measure to center the inner boom within the intermediate boom.



Step 7

TM Lower outer boom roller adjustment

Refer to Step 5 to adjust the bottom roller assembly closest to the lower boom insert and the upper roller closest to the knuckle. Adjust the rollers to center the intermediate boom into the outer boom.

Once centered, adjust the other rollers so that they just touch the intermediate boom but still turn the rollers. Tightening the roller too much will cause a popping noise when extending the lower boom. If the roller is too loose it will cause the boom to be sloppy. When done adjusting, remove set screws and apply blue Loctite.

