Service Call: Setting Stop Valves for Non Over-Center TC and TCX Units

Tools Required:
½” Wrench
½” Socket
2 lb Rubber Hammer
Angle Indicator
Screw Driver Set

Model(s):
TC (after 2002), TCX
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.
Introduction:
The purpose of the stop valves is to limit the upper boom from going over-center when operating the upper boom on a TC or TCX.

Step 1
Position the machine in an area that will allow you to run the upper boom up without any overhead restrictions.

Click here to view the full schematic at the end of this document.
Step 2
Level the machine, making sure that the tower is also level.
Step 3
Raise the upper boom and check the angle. Lower the upper boom down and verify the angle again.
Step 4
Adjust the stop valve to the proper angle. The upper boom stop is set to:
- 63 degrees on a TC
- 70 degrees on a TCX

Run the upper boom up until it stops.

Step 5
Repeat steps until properly adjusted.