

# TECH TIPS

Service Call:

**Boom drifts down**

Tools Needed:

1/4 Inch wrench  
15/16 Inch wrench  
1 Inch wrench  
Oil containment system  
#10 JIC plug

Model:

**636 - Rev 3 10K**



## Tech Tips 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.

## Step 1

Rev three 10K

Two frame level cylinders



## Step 2

Rev Four 10 K

One frame level cylinders

Rev4 10k machines not covered



## Step 3

Test the lift cylinder packing:

1. Park unit on flat level ground, transmission in neutral, set the parking brake, and level the chassis.
2. Fully retract the boom and raise the boom all the way up until it reaches the end of its stroke.

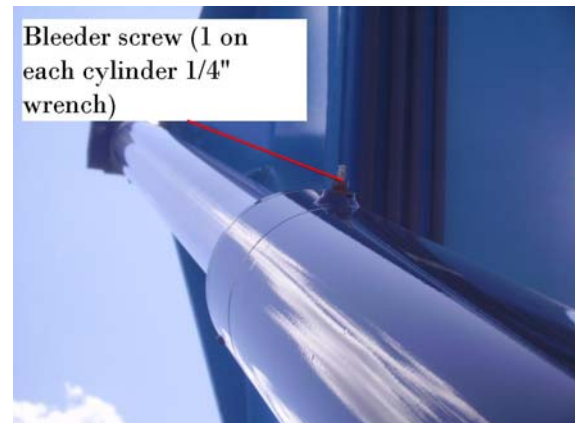


## Step 4

1. Turn the unit off and locate the bleeder screw at the top of each lift cylinder.

Note: Use a proper oil containment system.

2. Working with one cylinder at a time, crack the bleeder open (1/4 inch wrench) and allow the residual pressure to bleed off.



## Step 5

1. Start the unit and boom up allowing the hydraulics to go over relief (dead head).
2. If there is no oil flowing from the bleeder, the cylinder packing is good. Tighten down the bleeder screw (1/4 inch wrench) and proceed to the next step.

Note: If there is oil flowing from either bleeder, the packing in that cylinder is bad and the cylinder will need to be repacked or replaced. Contact Genie parts at 1-866-516-2321 for part numbers.



## Step 6

Test the lift cylinder holding valve:

1. Park unit on flat level ground, transmission in neutral, set the parking brake, and level the chassis.
2. Fully retract the boom and raise the forks approximately 4 feet off the ground.
3. Shut the unit off.



## Step 7

Note: Use a proper oil containment device. Do not start machine remove key from ignition and lock out.

1. Do not start machine remove key from ignition and lock out. Working with one cylinder at a time, crack the main oil supply line (15/16 & 1 inch wrench) connected to the aluminum holding valve on the base of the lift cylinder and allow any residual pressure to bleed off.

2. Remove the hose from the fitting and plug the hose (#10 JIC plug).

3. If there is no oil flowing from the open fitting on the holding valve, the valve is good. Proceed to step #8

Note: If there is oil flowing from either fitting, the holding valve on that cylinder is failing and needs to be replaced with part number 7-234-53.



## Step 8

1. Remove the plug (#10 JIC plug) and reconnect the hose to the fitting on the holding valve and tighten the hose (15/16 & 1 inch wrench).

Note: If both tests do not show a failure and the boom still drifts down, contact the Service Department at 1-866-684-1457.

