

# TECH TIPS

Service Call:

**How to Adjust the Function  
Max Speeds**

Tools Needed:

None

Model:

**S40/45-7000 & up**



## 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

Note: Perform this procedure with the boom in the stowed position.

Pull out the red Emergency Stop button to the on position at both the ground and platform controls.

Turn the key switch to platform control.

Do not start the engine.



## Step 2

Push in the platform controls red Emergency Stop button to the off position.

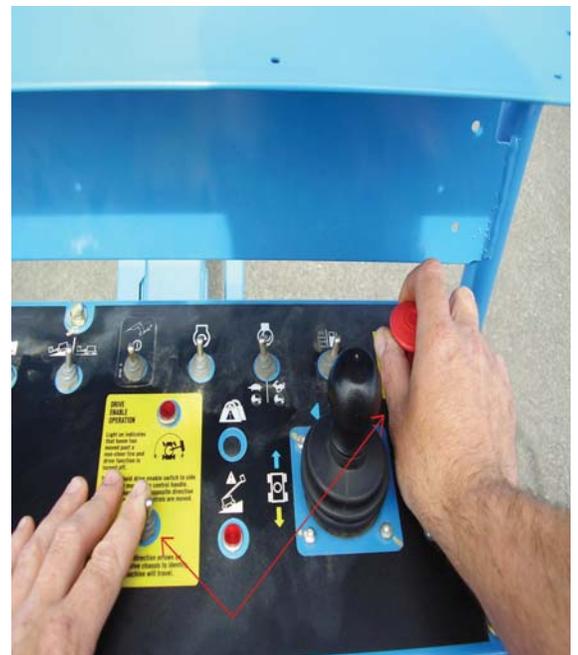
(Do not press down the foot switch.)

Move and hold the drive enable toggle switch in the right position and pull out the red Emergency Stop button to the on position.

When the alarm starts to sound, release the drive enable toggle switch.

Momentarily activate the drive enable toggle switch in the right direction 4 times.

Result: There should be a pause and the alarm should sound 4 times indicating that the machine is in max-out calibration mode



## Step 3

Start the engine from the platform controls and press down the foot switch.

Start a timer and activate the machine function that needs to be adjusted.

Record the time it takes for that function to complete a full cycle (ie; boom up).

Compare the machine function time with the function times listed in Step 4

Specifications. Determine whether the function time needs to increase or decrease.



## Step 4

Boom up 40 to 60 seconds  
Boom down 50 to 80 seconds

Turntable rotate, 360°  
boom fully stowed 70 to 100 seconds

Turntable rotate, 360°  
boom fully extended 120 to 140 seconds

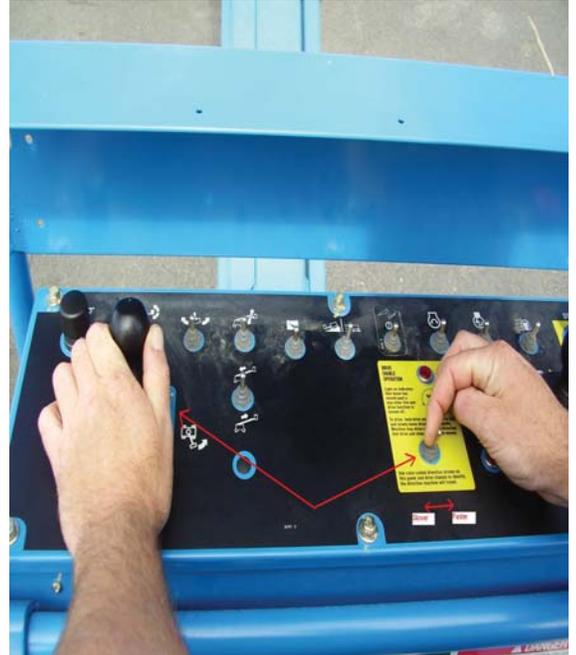
Drive speed, stowed 40 ft / 5.2 - 5.9 sec  
12.2 m / 5.2 - 5.9 sec  
Drive speed, raised or extended 40 ft / 40 - 45 sec  
12.2 m / 40 - 45 sec  
(Drive speed select switch should be set to flat ground mode)

## Step 5

While the joystick is activated, adjust the maxout setting to achieve the proper function cycle time.

Momentarily move the drive enable toggle switch in the right direction to increase the function speed or momentarily move the drive enable toggle switch in the left direction to decrease the function speed.

Note: Each time the drive enable toggle switch is momentarily moved, the function speed will change in 2% increments.



## Step 6

Repeat step 5 for each joystick controlled machine function.

After setting all joystick functions, return the joystick to the neutral position and wait for approximately 10 seconds to allow the settings to be saved.

Result: The alarm should sound indicating that the settings have been saved in memory.

Note: Do not operate any machine function during the 10 second waiting time.