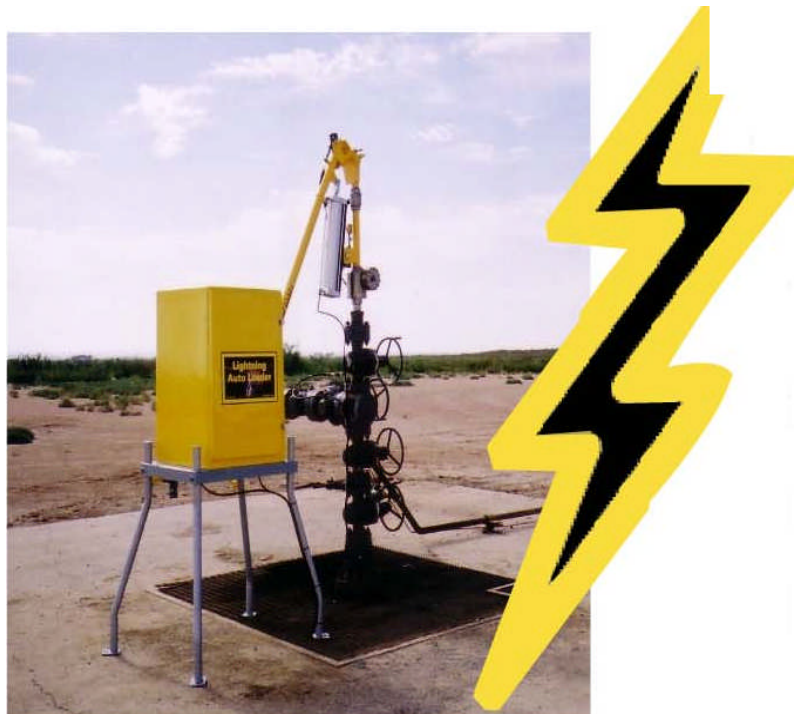


# Lightning Auto Loader

Automatic Stix Loader



The most technologically  
advanced Auto Loader on  
the market today!

## Installation

Note: Installation will be better achieved with a crew of at least three (3). Before attempting installation, be certain that all gas pressure to the wellhead is shut off and secured.

### Wellhead Preparation:

1. Shut in top master valve and wing valve.
2. Shut needle valve in, bleed off excess pressure from gauge and remove gauge.
3. After pressure is off remove BHTA (bottom hole test adapter), cap, and disregard.
4. Install the 2 3/8" 8rd (or thread size appropriate to your BHTA) nipple.

**Note:** Your **Lightning Auto Loader™** comes equipped with a 2 3/8" 8rd thread.

### Lighting Auto Loader™ Installation:

1. Install the "A" assembly on nipple. Position and tighten so that the 2"x16" Mount Nipple is facing opposite of the wing valve and choke.
2. Install large air cylinder by inserting the 1" nut and bolt, taking care not to over tighten, this will successfully attach the air cylinder pending connection of the supply gas.
3. Install the boom section by inserting the rod pin in clevis and clip, then insert hinge pin into the lower funnel hinge and boom through the brass bushings and clip.
4. Insert inner tube into nut boom and hand tighten to hold in place. This will be further adjusted later.

### Linkage Installation:

Note: *Linkages are factory pre-adjusted.*

- Install pin in clevis and clip.
  - Install equalizer linkage pin and clip.
5. Insert legs into base and secure with leg bolts.
  6. Pick up machine and move the back of the machine to the boom section. Raise the "big foot" and place in the holde

# Installation Continued

## Leveling the base and adjusting the boom:

- Level base then tighten leg bolts.
- Level bottom "big foot" lip even with, or slightly lower than bottom lip of soap stix dispenser opening
- Level foot holder flush against Big Foot
- Pull inner boom in or out, adjusting "big foot" to position in holder, level, then tighten nut.

*Note: Big foot must be even with dispenser as described or soap stix will not dispense properly*

## Connection of supply gas and air cylinder:

*Note: Best results are achieved by using a good, dry, gas supply.*

- Attach supply gas line to collar marked "Supply In".
- Connect black tubing to collar marked "Out" and to the bottom of the large cylinder. Leave a 'A coil length when attaching hose to cylinder as to allow for movement.

## Post Installation Testing:

It is advisable to test your Lightning **Auto Loader**<sup>™</sup> after assembly to ensure proper operation.

1. Turn off the controller.
2. Load rack with soap stix.
3. Turn gas supply on.
4. Turn controller on.
5. Press exit button.
6. Press "Drop".

*Caution: Machine will now activate. Also note that controller is now in duration time of 120 seconds. At the end of this time the boom will return to its down position.*

With testing now completed, set the controller. For this step, refer to the controller manual.

# CONTROLLER INSTRUCTION MANUAL

Welcome to the controller instruction manual. In this section you will learn how to program and activate the computer controller for your Lightning Auto Loader.

## **You will begin by setting the clock to the correct time and day:**

- Press the **exit** key, this will activate the display panel.
- Press the **mode** key to make the day selection blink
- Set the day by using the up or down buttons
- Once the day has been set, press the **mode** key to make the hour selection blink.
- **Set** the correct hour with the up or down keys.
- Be certain to scroll through to set the time for either AM or PM
- Press the **mode** button and follow the same procedure to set the minutes
- After the correct time and day have been set, press the exit key to save your settings

## CONTROLLER INSTRUCTION MANUAL CONTINUED

**Now that your clock has been set to the correct time and day, you may proceed to the next step: setting the soap drop times.**

- Press the **exit** key to activate the display panel
- Next press the mode key then the drop key
- You are now in the soap **drop** menu. By using the up and down keys, set the day that you wish to drop soap.
- Press the **mode** key to activate the hour selection. Use the up and down keys to set the hour that you would want to drop soap.
- Be certain to scroll through to set the time for either AM or PM
- After you have set the hour, follow the same procedure to set the minutes
- Once you have set the minutes, press the mode key once again. This will show the selection "drop on or off"
- To set, use the up key for on, or the down key for off
- If you wish to drop another stix on the same day, press the drop key and repeat the steps to set the soap drop time and day, press the exit key to save your settings.
- Note: At the top of the display you will find a counter indicating how many stix you are dropping during the week
- After you have set all of your drop days and times, press the exit key to save your settings.

• **For manual drop: press exit then press drop**  
***You may at any point during these programming steps press the exit key to start over.***

## **Dislodging a lodged soap stix:**

**Caution:** Safety protection such as hard hat, eye protection, and hearing protection must be worn at all times during this procedure.

**Step 1:** Turn the dial on the check valve to the "L.O." (lockout) position, then pull the 3/8th pin in the ball valve handle.

**Step 2:** Open the ball valve by pushing the handle upward.

**Note:** Caution should be taken at this time due to the lodged soap stix ejecting at high velocity.

**Step 3:** After soap stix has been dislodged and ejected, replace red pin in ball valve handle and turn dial to "Auto." Now your machine is back in automatic.

# TROUBLESHOOTING AND MAINTENANCE

## **Cleaning and lubrication:**

The Big Foot and the slider rack may be washed with plain warm water. More stubborn soap build-up can be removed with the use of a household soap scum remover.

Please note, the Lightning Auto Loader requires no lubrication of any kind.

## **Troubleshooting:**

Although your Lightning Auto Loader is designed to deliver virtually trouble-free operation, we have provided solutions to some more common problems.

### **Boom remains in upright position:**

- System is over-pressured, replace or adjust regulator
- Solenoid may contain debris, clean out solenoid

### **No display on LCD controller screen:**

- Check, or replace batteries

### **Leaking Ball Valve:**

- Adjust linkage