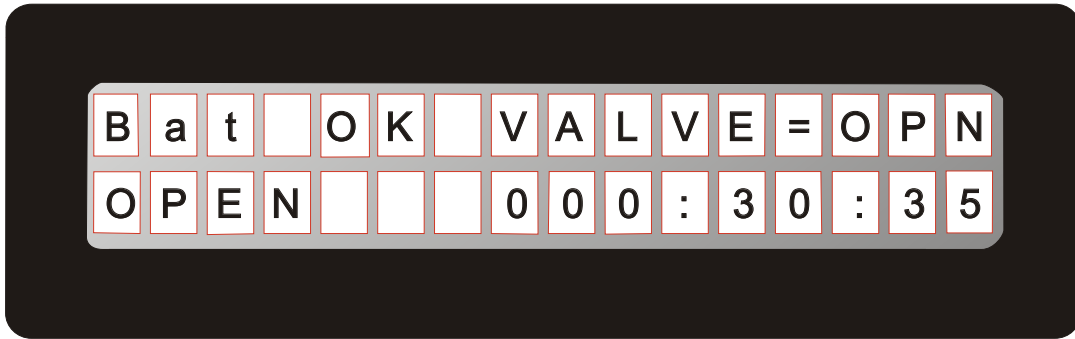


# Nighthawk II



## Owner's Manual

**Time Products, Inc**  
**2150 W. 6th Ave, Suite A**  
**Broomfield, CO 80020**  
**877-460-7481 or 303-460-7481**  
**[www.timeproducts.net](http://www.timeproducts.net)**

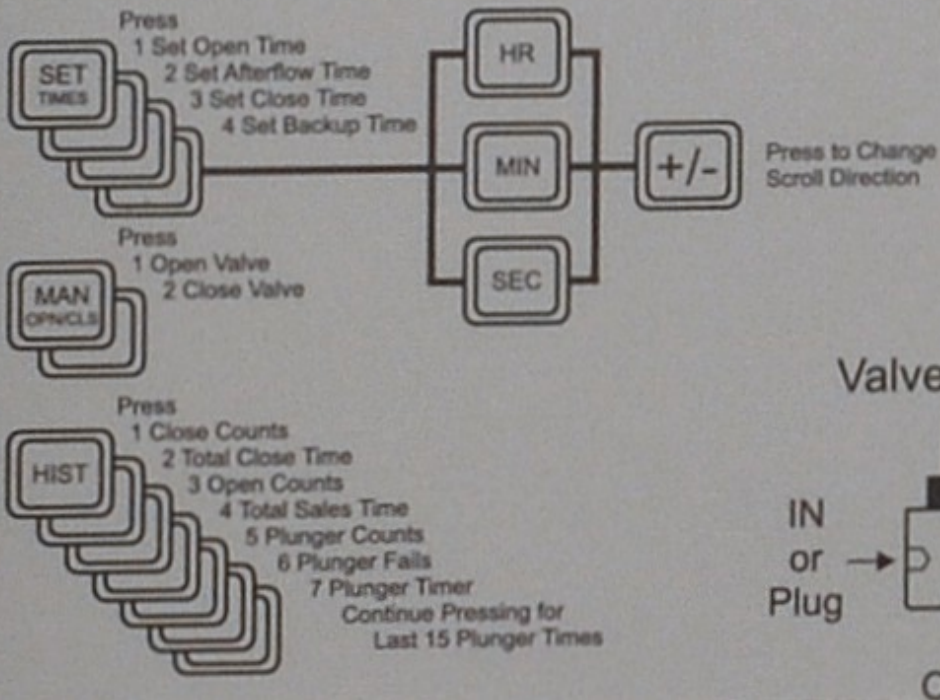
# Nighthawk II

S/N

3965

Time Products, Inc.  
Broomfield, CO  
877 460-7481

## Basic Controller Instructions



1



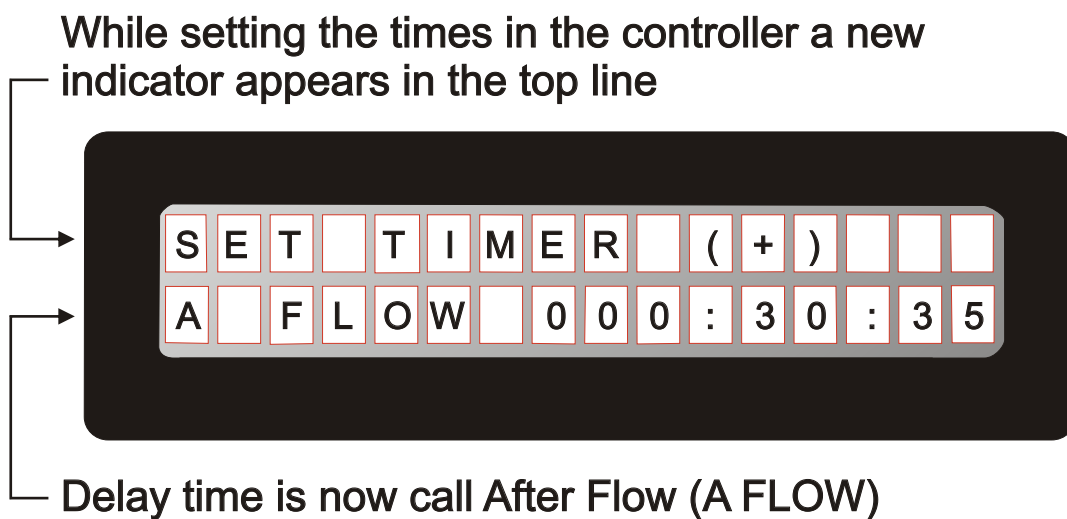
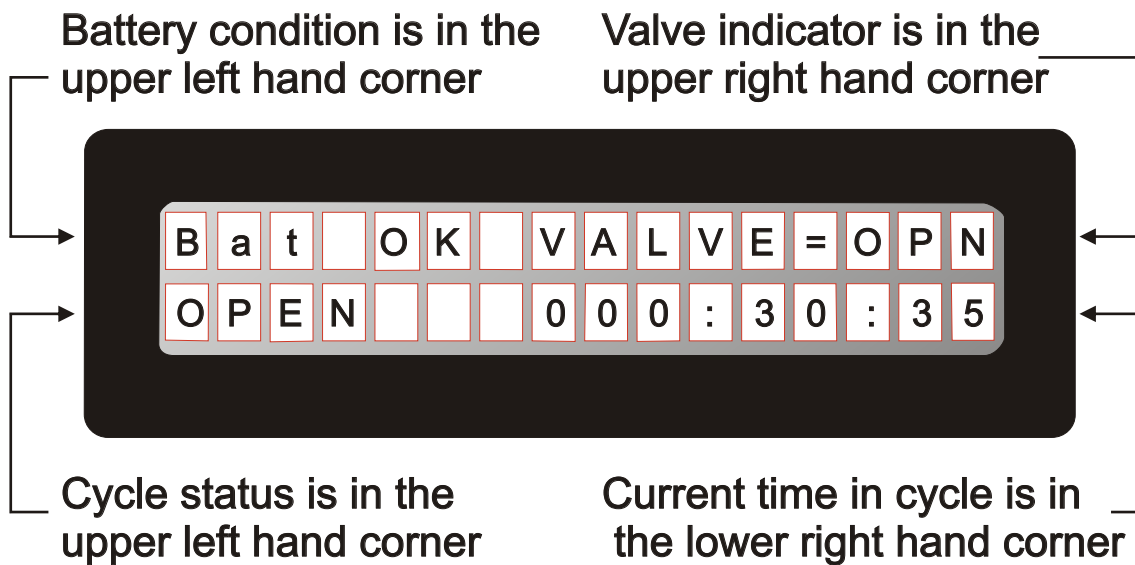
# Nighthawk II

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# Nighthawk II

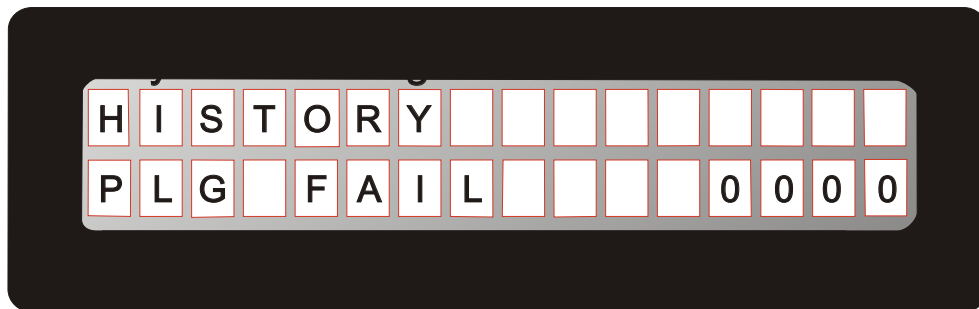
## *New changes to the Nighthawk II*

### The display has changed



# Nighthawk II

A New feature called *“Plunger Fail”* indicates how many missed plungers occurred



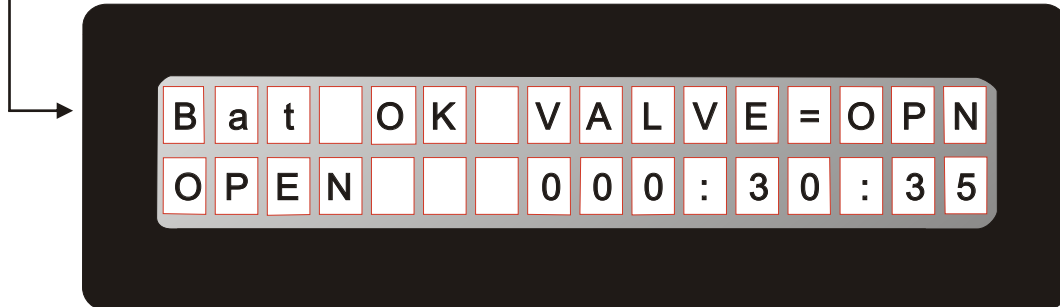
Open time (OPN TIME) is now called sales time (SLS TIME)



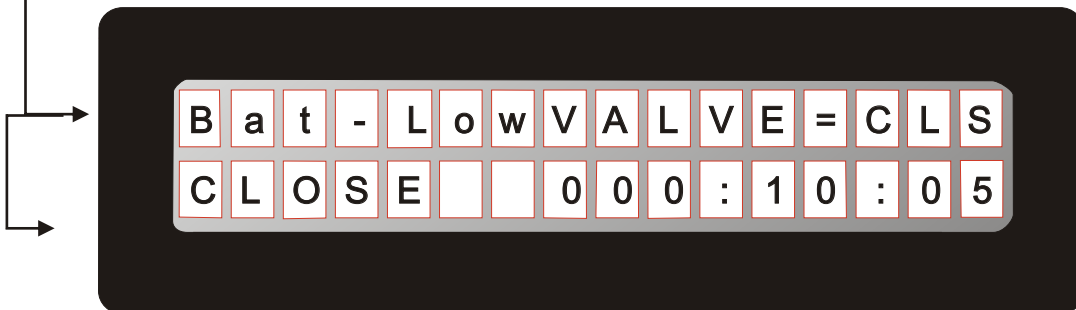
# Nighthawk II

## *Battery Power Displayed*

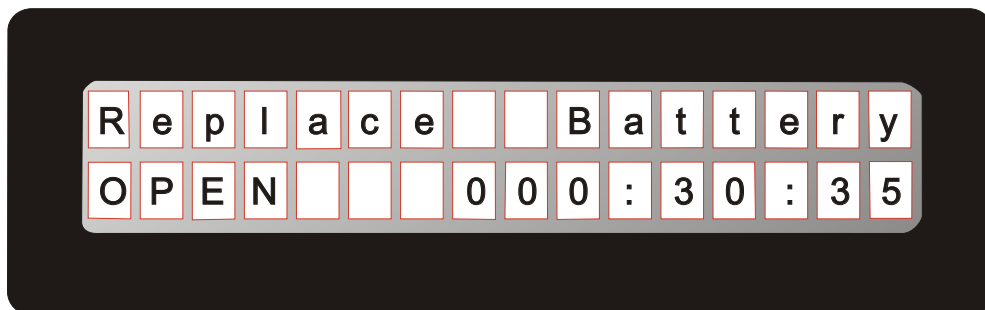
Battery condition is good



Battery condition is low-(replace as soon as possible)

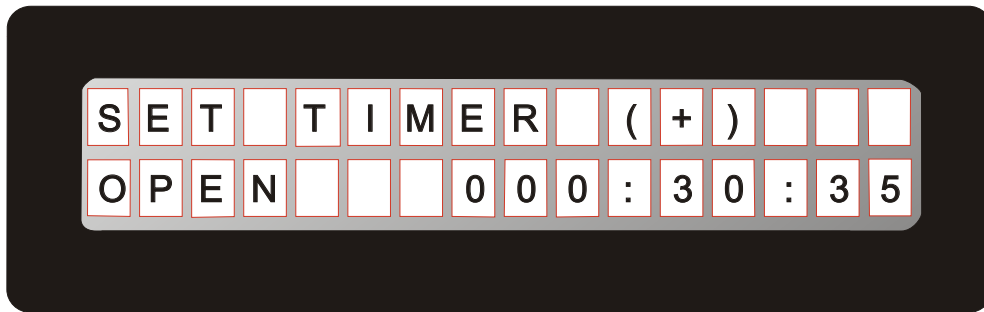


Battery condition is critically low-(The controller may stop working)



# Nighthawk II

## Program Open Time



Press the SET OPN/CLS button one time to set the desired open time.

This will open the valve for the duration programmed.

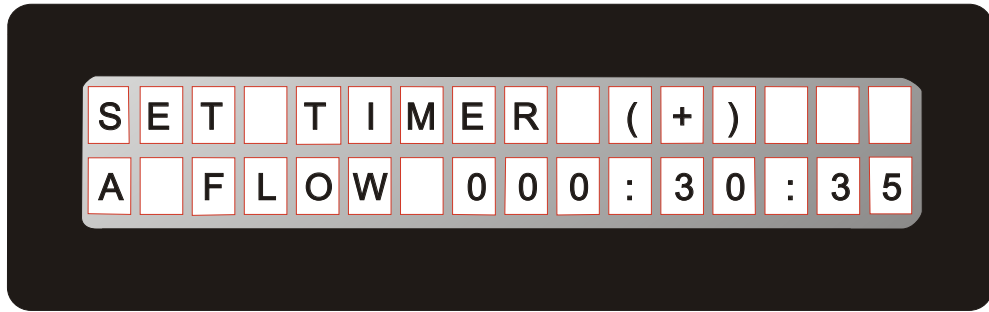
### NOTE:

To set all of the times in the Nighthawk controller, use the **HR**, **MIN**, and **SEC** buttons to program the times needed.

Use the **+/-** button to scroll the numbers up or down.

# Nighthawk II

## Program After Flow

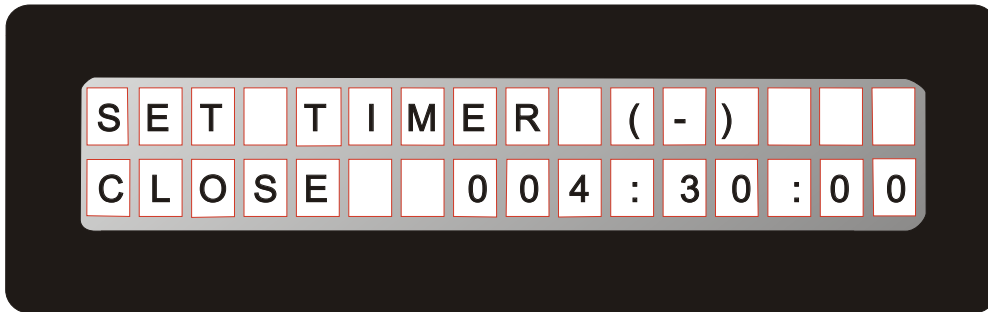


**Press the SET OPN/CLS button two times to set the desired after flow time.**

**This will keep the valve open after plunger arrival for the duration programmed.**

# Nighthawk II

## Program Close Time

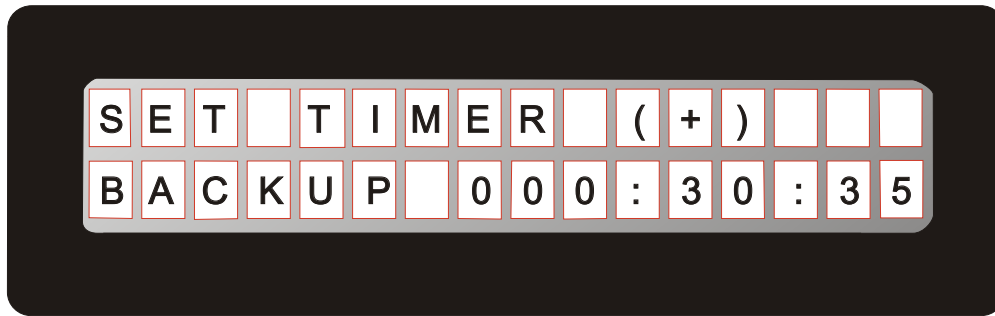


**Press the SET OPN/CLS button three times to set the desired close time.**

**This will keep the valve closed for the duration programmed.**

# Nighthawk II

## Program Backup Time

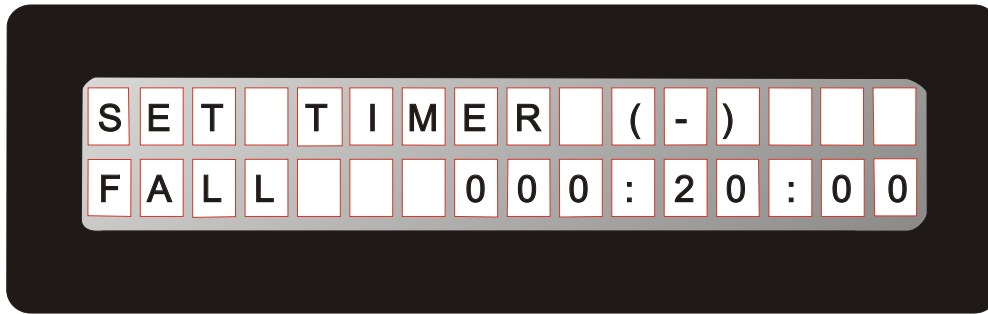


**Press the SET OPN/CLS button four times to set the desired backup time.**

**This will provide an additional extended close time if the plunger fails to arrive at the surface.**

# Nighthawk II

## Program Fall Time



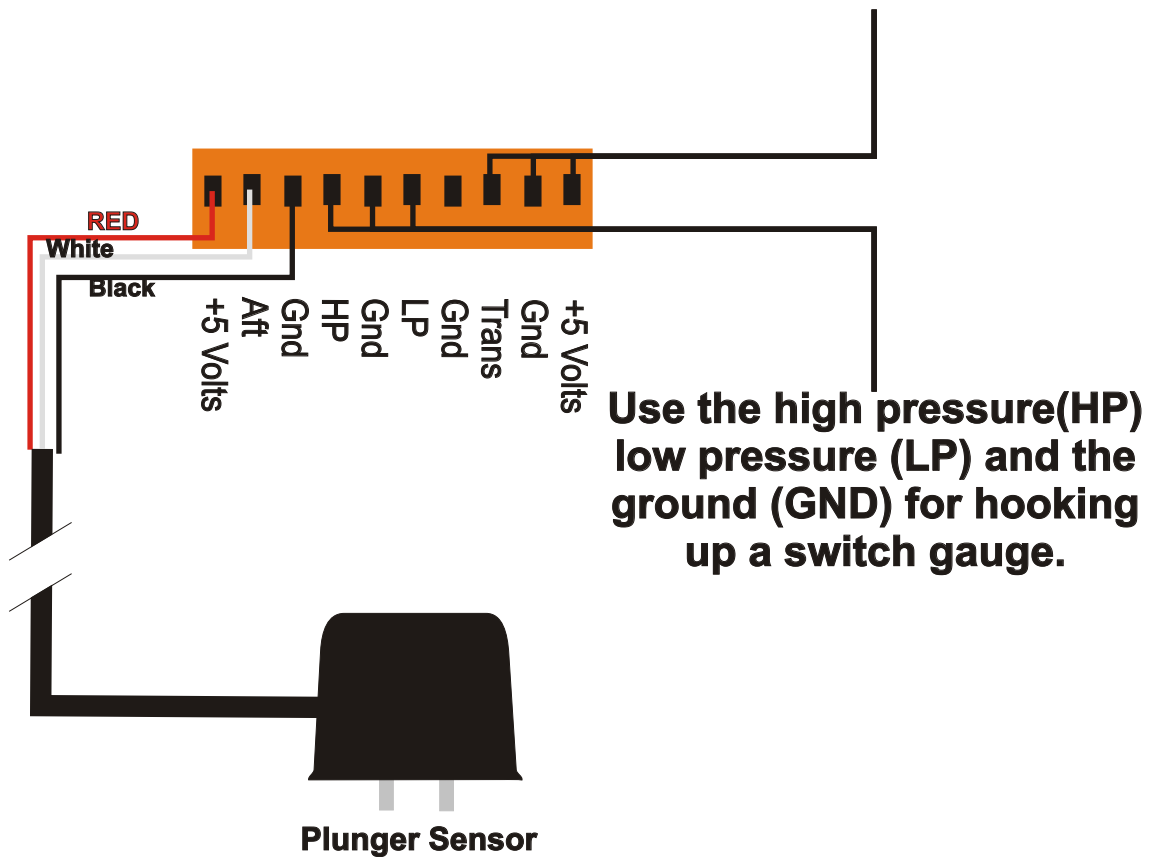
**Press the SET OPN/CLS button five times to set the desired fall time.**

**This will stop the valve from opening prematurely and allows the plunger to fall to the bottom of the well before opening.**

# Nighthawk II

## Terminal Block Hook Up

Use the transducer signal (Trans),  
+5 Volts, and the ground (GND)  
for hooking up a transducer.  
(Requires software change)



# Nighthawk II

## *Trouble Shooting*

The most common problem with plunger lift controllers is with the valve malfunctioning. The best way to determine the problem is to:

1. Check battery voltage
2. Clean valve actuator
3. Replace the valve

Another common problem is while powering the controller it locks up with black bars across the top. To fix this:

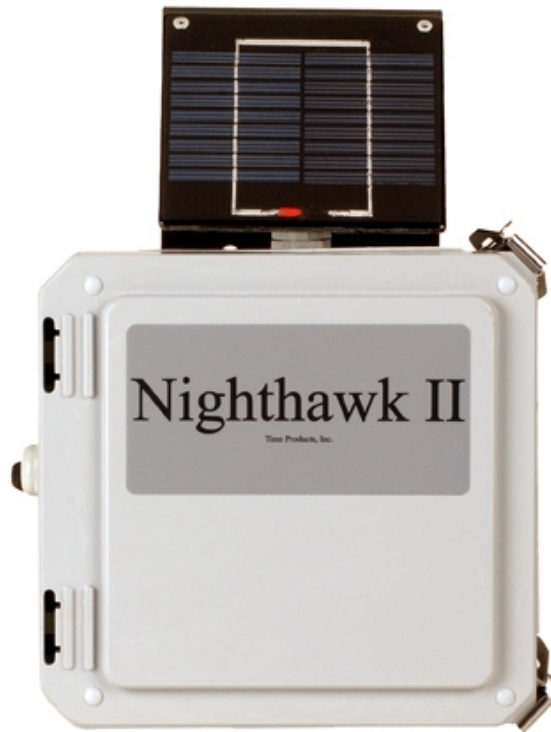
1. Cover the solar panel
2. Disconnect the power
3. Reconnect the power

The solar panel can disrupt a Proper boot up sequence.





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