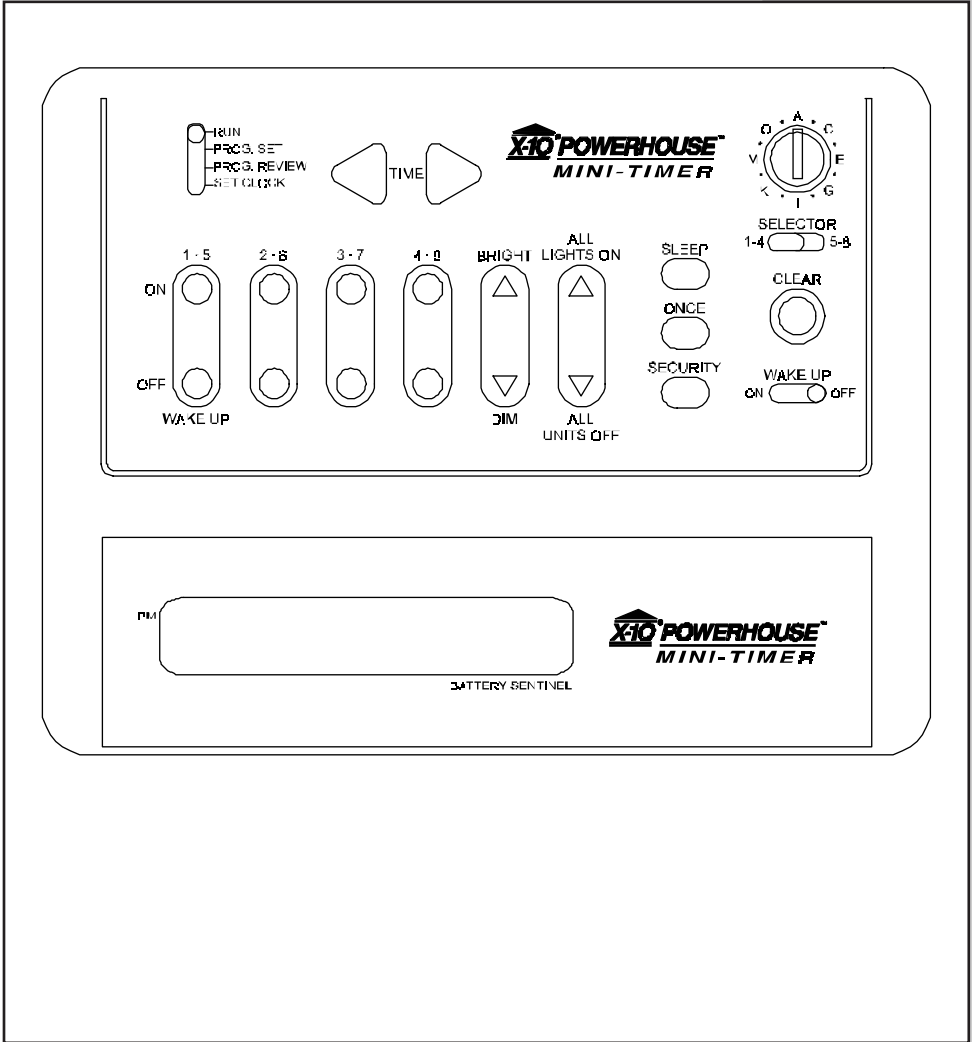


X-10 POWERHOUSE™

Mini Timer

Owner's Guide



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Introduction

The **X-10** Mini Timer controls up to 4 **X-10** Modules automatically (8 instantly). You can have your outside lights as well as inside lights and appliances go on and off at preset times to give your home a lived-in look while you are away.

You can program your Modules to go on and off at the same time every day (up to 2 times) or you can set your stereo to wake you up “Once” only, for an early morning flight. There is even a “Security” button which automatically varies your programmed time each day so your home doesn’t look like it’s controlled by a timer.

You can keep the Mini Timer by your bedside and it will wake you up on weekdays. It has a snooze feature so you can sleep a while longer and you can turn the alarm off on weekends.

You can manually turn off your child’s radio or night light from your bedside and dim your bedside lamp. You can turn on ALL lights connected to Lamp Modules and Wall Switch Modules with the touch of a button if you hear a suspicious noise at night. You can even turn off everything in the system with one button.

Before you begin

Keep in mind that your **X-10** System will always turn lamps and appliances on or off the instant you press the buttons. That’s obvious - but there can be some unexpected consequences.

For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot may be damaged from overheating. If an electric heater is turned on by remote control while clothing just happens to be draped over it, a fire could result. Therefore, do not use with high power heating devices such as portable heaters.

Always be aware of what appliance you are turning on or off so that potentially dangerous situations will not occur.

What it does

The Mini Timer plugs into any AC outlet in your home and you set it like a digital alarm clock. Channel number 1 also activates an internal buzzer so you can use it as an alarm clock too! You can program up to 4 **X-10** Modules from the Mini Timer and you have instant control of 8 Modules.

There is a handy snooze feature which lets you cancel the alarm buzzer by pressing **any** key. This will stop the buzzer and will set the alarm off again in 10 minutes. You can do this indefinitely.

Pressing the “Sleep” button after turning a Module **On** will cause it to go **Off** in 15 minutes time (or **On** in 15 minutes if you just turned it **Off**). You can press the “Sleep” button multiple times to get multiples of 15 minutes “on time” (or “off time”).

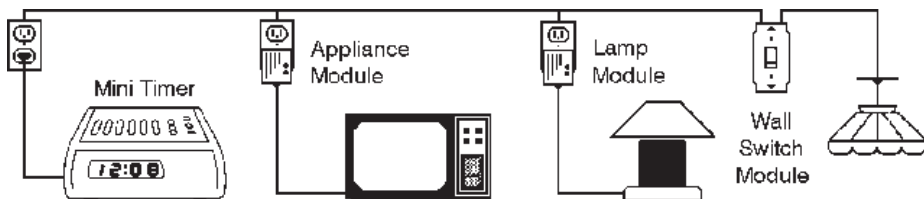
Advancing to a particular time (in the Prog Set mode) and then pressing a number ON or OFF key will set an on or off time for that Module, every day. However, if (within 4 seconds) you press “Once” you will change that program to occur only once, if you press “security” you will change the program to occur at different times each day (variably).

Introduction

How it works

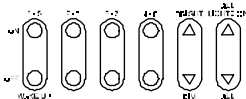
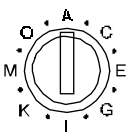
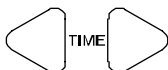
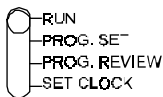
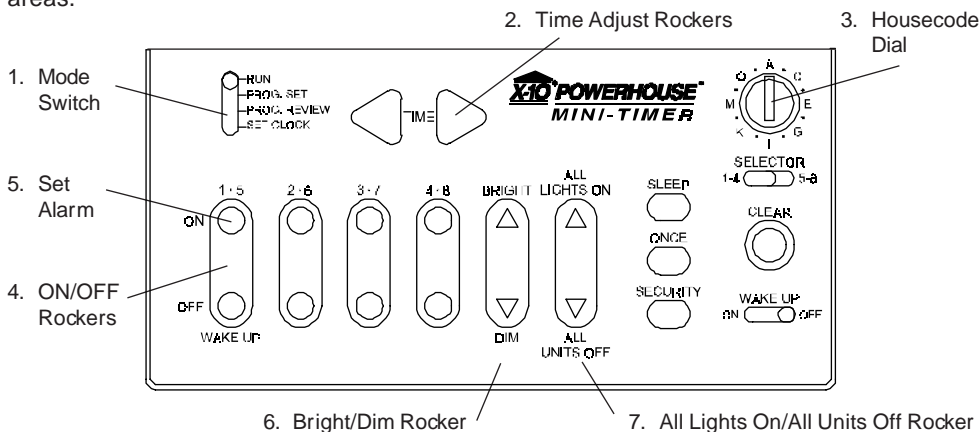
The Mini Timer plugs into any AC outlet in your home and transmits digitally encoded signals over your house wiring instantly or at the times you set. These signals are received by the **X-10** Modules.

You Plug a lamp up to 300 watts into a Lamp Module, an appliance such as a TV, stereo or coffee pot into an Appliance Module and replace important indoor or outdoor security lights up to 500 watts with the Wall Switch Module.



Quick Tour

Let's quickly review the functions of each part of the keyboard (you can go to page 7 for a step by step tutorial if you prefer). Referring to the diagram below and the cutaway sections that follow you will see that the keyboard on the Mini Timer consists of 7 basic areas.



1. Mode Switch. This is used to select whether you want to enter a timed event, review your program of events, or set the clock.

2. Time Adjust Rocker Key. This is used to set the time of the clock and the time you want to set for each programmed event.

3. Housecode Dial. In the top right hand corner is the Housecode dial which you set to the same letter as all of your Modules and any other Controllers you may own.

4. ON/OFF Rocker Keys. In the bottom left hand corner there are 6 rocker keys. The first 4 are used to turn Modules 1 through 4 (or 5 through 8) on and off instantly by pressing either the top of the rocker for ON or bottom for OFF.

In the "Prog Set" mode these rockers are used to set on or off times for the selected number (1 to 4 or 5 to 8).

5. Alarm. Rocker key 1 (or 5) also sets the time for the internal alarm buzzer.

6. Bright/Dim Rocker Key. The Bright and Dim rocker key brightens and dims lights connected to Lamp Modules and Wall Switch Modules if pressed after first selecting the Module by pressing the ON rocker corresponding to its Unit Code (1 to 4 or 5 - 8).

7. All Lights On/All Units Off Rocker Key. Instantly turns on ALL Lamp Modules and Wall Switch Modules and instantly turns off ALL Modules including Appliance Modules.

Quick Tour

How to Program a timed event

1. Place mode switch in "Prog Set" position.
2. Advance to the desired time.
3. Press any of the 4 ON or OFF rocker keys to set an on or off time for that Module. This will program the Mini Timer to turn that Module on (or off) at that time **every day**.

Special Programming Buttons

ONCE



1. Once button. If within 4 seconds after setting an on or off time, you press the "Once" button you will modify the program to carry out your programmed event only once and it will **not** repeat on the next day.

SECURITY



2. Security button. Press (within 4 seconds after setting an ON or OFF time) to modify the program so that your lights (or appliances) will go on or off at a slightly different time every day (within the programmed hour).

CLEAR



3. Clear Button. Pressing this (in the Review mode) cancels the on time or off time being displayed.

WAKE UP



4. Buzzer Switch. In the "ON" position an internal wake up buzzer will sound at the time programmed for Module number 1 (or 5). When this sounds you can turn it off by pressing any button to obtain the "snooze" feature. This will turn the buzzer back on in 10 minutes and will do so each time you operate snooze.

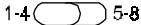
The alarm can be cancelled by moving the Buzzer switch to "OFF" and back to "ON" (for wake up the next morning).

SLEEP



5. Sleep Button. Pressing "Sleep" after turning a Module **on** will turn it **off** -15 minutes later. Pressing "Sleep" after turning a Module **off** will turn it **on** - 15 minutes later. Multiple presses adds multiples of 15 minutes to your on time (or off time).

SELECTOR

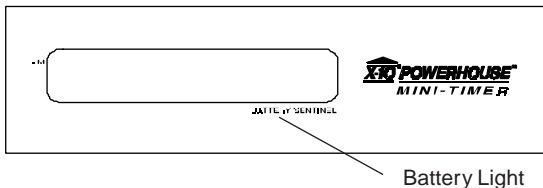


6. Selector Switch. Used to select whether you want your Mini Timer to control Modules set to Unit Codes 1 thru 4 or 5 thru 8. You can move the selector switch back and forth to achieve instant control of 8 **X-10** Modules but you will only be able to set times for one group (1 to 4 **OR** 5 to 8).

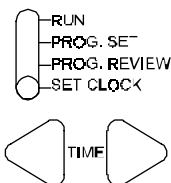
Setting up the Mini Timer

Setting the clock

Plug the Mini Timer into any convenient AC outlet. Place a 9 volt alkaline battery in the battery compartment to protect the time and program for up to 48 hours in the event of a power outage. Test the battery by pressing “Once” or “Security.” If the battery is low the battery light will turn on. If the battery is dead or not installed the battery light will be on permanently.



When you first plug in the Mini Timer the display will flash. It will also flash if you have had a power outage and have not installed a 9 volt battery or the battery is dead.



1. Set the mode switch to “Set Clock.”
2. Press the right hand “Time” rocker to advance to the correct time. A quick press on the rocker will advance the time by 1 minute. If you hold the rocker down the display will advance to the correct time faster. If you overshoot, you can use the left hand rocker to go back.

Controlling X-10 Modules

Follow the steps below to make sure you can control your Modules before you program the Mini Timer.

1. Install and set up all of your **X-10** Modules referring to the instructions included with them. **Be sure to turn off the power at the main circuit breaker panel when installing Wall Switch Modules.**
2. Set all of your Modules to the same Housecode as you set on the Mini Timer.
3. Set each Module to a Unit Code Between 1 and 4 (or between 5 and 8 if you set the Selector Switch on the Mini Timer to the 5-8 position.).
4. Set the Mode Switch on the Mini Timer to the “RUN” position.
5. To turn on a particular Module, press the ON rocker key corresponding to the number you set on the Module you want to control.
6. To turn off a particular Module, press the OFF rocker key corresponding to the number you set on the Module you want to control.

Setting up the Mini Timer

To Dim and Brighten lights connected to a Lamp Module or Wall Switch Module, first select the Module by pressing and releasing the ON rocker key for the desired Module, then press the Bright or Dim rocker key. Hold the key pressed until the desired brightness level is reached.

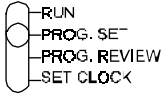
To turn on ALL lights connected to Lamp Modules and Wall Switch Modules (with same Housecode as Mini Timer), press the “All Lights On” key. This key does not affect appliances.

To turn off ALL lights AND appliances connected to any kind of **X-10** Module (with same Housecode as Mini Timer), including Appliance Modules, press the “All Units Off” key.

Programming ON and OFF times

Setting something to happen every day at the same time.

After you have installed all of your Modules and checked that they are working instantly from the Mini Timer you are ready to program timed events.



1. Set the Mode Switch to the "Prog Set" position.
2. Press the "Time" advance rocker key to advance to the desired on or off time. When you first press the rocker the time will advance by 1 minute. If you hold the right hand rocker down the display will "speed up" so you can get to the desired time faster. When you get close to the desired time, you can "tap" the rocker a few times to get to the exact time you want. If you overshoot, you can press the left hand rocker to go back.

3. When you reach the desired time, press the ON or OFF rocker key for the Unit Code you want to program.

For example: If you advance to 12:45 PM and then press the ON rocker key for number 2, you will program the Module set to Unit Code 2 to go **on** at 12:45 PM **every day**.

If you advance to 7:00 AM and then press the OFF rocker key for number 2, you will program the Module set to Unit Code 2 to go **off** at 7:00 AM **every day**.

You can now advance to another time and press another ON or OFF rocker key (or the same rocker key) to program another time. You can program 2 on times and 2 off times for each of the 4 Modules. Note, if you try to set a third on or off time the display will read 18:88 to let you know you've done something wrong. To clear this, select Prog Review and press the same rocker key you pressed when you tried to set the third on or off time.

You can program the same on or off time for multiple units by advancing to the time you want and then pressing the appropriate ON or OFF rocker key for each Unit Code one after the other without changing the time.

Setting a timed event to occur once only

If you press the "Once" button within 4 seconds after setting an ON or OFF time, you will modify the program for that particular Unit Code to occur only once.

The event you have programmed will happen (at the time you have programmed) within the next 24 hours, and will then be automatically cleared from memory and will not happen again the next day.

You can program up to 2 "once" events for each Unit Code or mix Once and Daily events for the same Unit Code (up to 2 on times and 2 off times for each Unit Code).

Programming ON and OFF times

Setting a timed event to occur in the “Security” mode

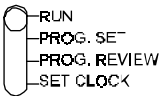
If you advance to a specific time, and then press one of the ON or OFF rocker keys, you will set an on or off time for that Unit Code to occur every day at **exactly the same time**. If however, you press the “Security” button within 4 seconds after setting an ON or OFF time, you will modify the program for that particular Unit Code to occur every day at a **slightly different time** each day.

The event you have programmed will happen at the time you have programmed on the first day, and will then happen at a different time on each subsequent day (within the hour you have programmed). For example:

If you advance to 7:35 PM, press the ON rocker key for number 2 and then press the “Security” button (within 4 seconds), the Module(s) set to Unit Code number 2 will go on at exactly 7:35 PM on the first day and any time between 7:00 PM and 8:00 PM every day after that. This time will vary each day so that the Module doesn’t go on at the same time each day (to give your home a lived-in look).

Sleep function

Set the Mode Switch to “Run.”



To Turn a Module ON for 15 mins Press the ON rocker for the desired Module, then press the “Sleep” button (within 4 seconds). The Module will turn on immediately and will turn **off** automatically 15 minutes later. If you press the Sleep button twice, the Module will turn **off** 30 minutes later, 3 times gives 45 minutes, etc.

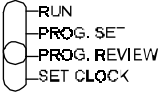
To turn a Module OFF for 15 mins Press the OFF rocker for the desired Module. Then press the “Sleep” button (within 4 seconds). The Module will turn **off** immediately and will turn **on** automatically 15 minutes later. If you press the Sleep button twice, the Module will turn on 30 minutes later, 3 times gives 45 minutes, etc. Press it as many times as you like.

You can have up to 2 Sleep times in operation at the same time. i.e. Module number 1 could go on now and off 30 minutes later and module number 2 could go off now and on 45 minutes later.

Programming ON and OFF times

Reviewing timer events

Set the Mode Switch in the "Prog Review" position (the display may show an apparently random time until you press a key).



If you press any of the 4 ON (or OFF) rocker keys, the display will show the on (or off) time programmed for that Module. If you have 2 on (or off) times set you can display the second on (or off) time by pressing the ON (or OFF) rocker key again.

Each subsequent press of the ON (or OFF) rocker key will alternately display each of the 2 on (or off) times.

To remove a programmed time: while displaying a particular on (or off) time, press the Clear button to clear that on (or off) time from memory. Pressing Clear twice will clear both on (or off) times. This will not affect any other on or off times you have set.

If the display reads 18:18:

if 18:18 is displayed when you try to enter a programmed time, this means that you have tried to enter an additional time when you already have 2 times set. You should select Prog Review mode and press the ON or OFF key to review the times set. Cancel one or more of your set times to enter another.

Selector switch



1-4 position - With the "Selector" switch in the 1-4 position the 4 ON and OFF rocker keys control (and set times for) Modules set to Unit Codes 1 thru 4 respectively.

5-8 position - With the "Selector" switch in the 5-8 position the 4 ON and OFF rocker keys control (and set times for) Modules set to Unit Codes 5 thru 8 respectively.

Controlling Modules 1-8

With the Mode switch in the RUN position you can slide the Selector Switch back and forth to instantly control Modules set to 1 thru 4 **AND** 5 thru 8. However, in the "Prog Set" mode you will only be able to set times for codes 1 thru 4 **OR** 5 thru 8.

If you set an on or off time for Modules 1 thru 4 and then flip the Selector switch to the 5-8 position, the times set for Modules 1 thru 4 will affect Modules 5 thru 8.

Note: You cannot set on or off times for Modules 1 thru 4 AND 5 thru 8.

Alarm settings

Setting the Alarm Buzzer

With the “Buzzer” switch in the “ON” position, any program you set for Module number 1 (or Module number 5 if the Selector switch is set to 5-8) will also set the internal alarm buzzer.



For example: If you connect your bedside lamp to a Lamp Module set to Unit Code 1 and then program Module number 1 for an ON time of 7:00 AM - At 7:00 AM your bedside lamp and the internal buzzer in the Mini Timer will turn on. You can turn the buzzer off (when you wake up) by sliding the Buzzer switch to the off position. You can turn off your bedside lamp by pressing the OFF rocker for Module 1.

You can leave the Buzzer switch in the off position if you don't want to use the wake up feature. This will not affect any programs you have entered for Module 1 (or 5).

Alternatively, if the Buzzer switch is off and you place the mode switch in the Set Clock position, you will “suspend” both the buzzer AND any times you have set for Module 1 (or 5). This is useful to suspend the wake-up function on weekends.

To Cancel the wake-up alarm

When the alarm sounds at the time you have set, you can cancel it in one of two ways:

- 1. Slide the Buzzer switch to the OFF position.** This will cancel the alarm permanently. Slide the switch back to “ON” if you want the alarm to wake you up the next morning.
- 2. Press any key.** This will give the “snooze” feature. Pressing any key while the buzzer is sounding will turn the buzzer off and will automatically turn it back on in 10 minutes time. You can do this indefinitely.

The buzzer will automatically turn off after 10 minutes if you ignore it.

Any Module(s) you have installed and set to Unit Code 1 (or 5 if the Selector switch is set to the 5-8 position) will turn on when the buzzer sounds and will stay on after you turn the Buzzer switch off or cancel buzzer using the snooze feature. You will need to press the OFF rocker key for number 1 (or 5) to turn the Module(s) off. Alternatively, you could program it/them to turn off later.

Alarm settings

Suspending the wake up function

If you set channel 1 for an ON time of 7:00 AM and number 1 is your bedside lamp, at 7:00 AM **every day**, your bedside lamp and the internal buzzer will turn on. If you turn the Buzzer switch off on Friday nights the buzzer will not wake you up the next morning but your bedside lamp will still turn on.

To suspend program for channel 1 turn the Buzzer switch off AND place the mode switch in the “Set Clock” position. The ON program for BOTH the Alarm buzzer AND the bedside lamp will be suspended.

You can control Modules instantly with the Mode switch in the “Set Clock” position, just as you can when it is the RUN position, but remember to place the Mode switch back to RUN and put the Buzzer switch back to the ON position on Sunday night to resume the wake-up program for weekdays.

Note: Pressing the ON rocker key for Module number 1 (or 5) with the Mode switch in the RUN position or Set Clock position does **not** activate the internal buzzer. This buzzer only sounds at preset times.

Troubleshooting

1. If a particular Module won't go on or off from the rocker keys on the Mini Timer:

Check that you have power to the outlet controlling the Module and the switch on the light or appliance is ON.

Check that the Unit Code and Housecode on the Module are set correctly.

Try plugging the Module and the Mini Timer into the same outlet. If the Module doesn't work in ANY outlet, not even with the Module and the Mini Timer in the same duplex receptacle (top and bottom) the Module may be defective.

2. If you can't control ANY Modules from the Mini Timer.

Check that there is a time displayed on the Mini Timer and that you have power to the outlet it is plugged into.

Check that the Housecode on the Mini Timer is set correctly. Try plugging the Module and the Mini Timer into the same outlet. If NONE of your Modules work in ANY outlet, not even with the Module and the Mini Timer in the same duplex receptacle (top and bottom) the Mini Timer may be defective.

Intercom systems

Intercom systems which send voice signals over existing electrical wiring may interfere with the operation of the Mini Timer when the intercom is in use. If the Intercom system has its own separate wiring it will not cause a problem.

Power interruptions

When the power is restored after an outage, Lamp Modules and Wall Switch Modules will normally be OFF. Appliance Modules have a "latching relay mechanism" and will stay as they were before the interruption.

This means that when you first plug in an Appliance Module which you have just purchased, it may be in an ON or OFF state (the state it was in before unplugging after factory testing).

Battery back-up

If you install a 9 volt alkaline battery in the battery compartment of the Mini Timer your programmed times will be protected for up to 48 hours in the event of a power outage.

Battery test

To test the condition of the battery, press either the "Once" button or the "Security" button. If the battery is low the battery light in the display will turn on. If the light doesn't turn on the battery is o.k. If there is no battery installed or the battery is dead the battery light will be on all the time. It is recommended that you check the condition of the battery regularly and replace it at least once every 6 months.