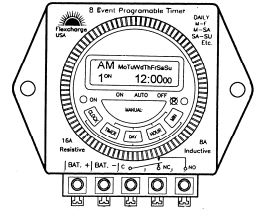


Flexcharge™ USA PROGRAMMABLE TIMER

7 Day, 8 Event Pairs, 16 Amp Resistive, 8 Amp Inductive, 12 Volt



OVERVIEW

Now you can have full control of lights, pumps, cameras, etc. with the accuracy of a Quartz clock. Perfect for signs, yard lights, etc. The light can be turned ON and OFF at specific times of day and many times a day if needed. When used in conjunction with the Flexcharge NC12L12 or Night Watchman Dusk to Dawn controls, you can delay the evening turn ON until it is dark but still have an exact turn OFF time. This will automatically compensate for changing sunset times. An internal replaceable Lithium battery will retain your programming in the event of a system power failure. The basic system is capable of controlling loads up to 16 amps at 12 volts and can easily drive an external relay to load capacities up to 100 amps.

INSTRUCTIONS

Follow the wiring diagram to connect the wires to your 12 volt system. The timer must operate from 12 volts AC or DC but the switch will control any voltage up to 250V. The BAT+ and BAT- terminals must be connected to a 12 volt source to switch the load ON and OFF. **You must supply power to the Common (C) terminal for the load to obtain power.** This can be any voltage up to 250 volts to meet your load requirements. For example if your load is to operate from the same power source as the timer clock, connect the (C) terminal to the battery positive terminal.

SETTING TIME

Set the clock to your local time and the day of the week.

- 1) Press and hold the **CLOCK** button.
- 2) Set the day of the Week by pressing the **DAY** key until the correct day appears.
- 3) Set the **HOUR** by pressing the **HOUR** key until proper hour appears. (24 hour time)
- 4) Set **MINUTE** by pressing the **MIN** key until the proper minute appears

When the time and day is set, release the **CLOCK** key

PROGRAMMING: It is not necessary to use all 8 event pairs but you will need to set both one *ON* time and one *OFF* time for each event.

1) Pressing the **TIMER** key will enter the Program mode. Pressing the **TIMER** key will scroll through the events. Stop on the event you want to set. There are 8 events and an *ON* and *OFF* time for each event. Only set the events you need. All others can remain blank.

2) Press **DAY** key to select the day or group of days. Press the **HOUR** key to set the hour and the **MIN** key to set the minute. To clear the event, press the **DAY** key then press and hold the **TIMER** key until the setting clears. Always set an *OFF* time for each *ON* time. It is possible to have one *OFF* event for several *ON* events. For example, if you have a light that comes on at different times each day but is to be *OFF* at the same time every day. One *OFF* event is all that is needed as long as it covers all of the *ON* days.

When the programming is complete, press the **CLOCK** key.

The **MANUAL** key will select **ON**, **AUTO**, and **OFF**. For Automatic operation it must be set to **AUTO**. You can manually turn the load *ON* and *OFF* by selecting **ON** or **OFF**. Watch the ___ cursor along the bottom edge of the display window and stop it over the function you want.

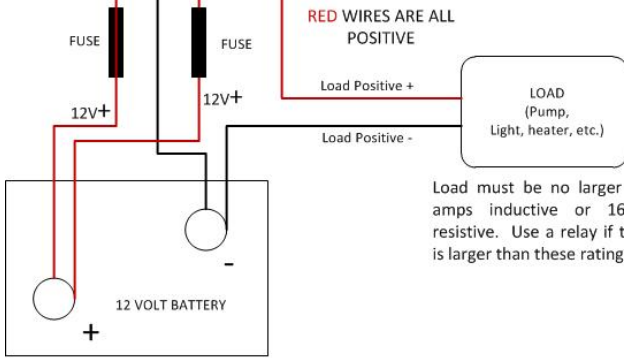
All programming and time can be reset to *New* settings by pushing the **RESET** button with a pencil or pen. **Use caution, all programming will be lost when this button is pushed**

Units manufactured after 10/01/00. After several years the battery may need replacement, contact the manufacture or your dealer for further instructions.

Typical wiring for a 12 volt load using the normally open (NO) terminal.



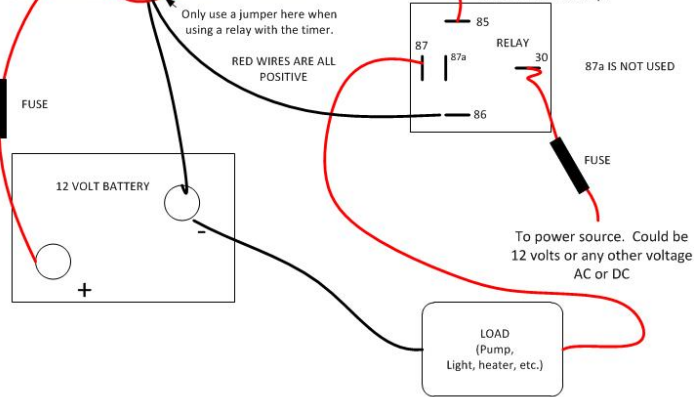
The fuse to the BAT+ terminal should be 2 amps and the fuse to the C terminal should be about 1.5 times the load amperage



RED WIRES ARE ALL POSITIVE

Load must be no larger than 8 amps inductive or 16 amps resistive. Use a relay if the load is larger than these ratings.

USING AN EXTERNAL RELAY ON THE FLEXCHARGE TIMER FOR HIGHER AMPERAGE OR OTHER VOLTAGE LOADS



Only use a jumper here when using a relay with the timer.

RED WIRES ARE ALL POSITIVE

Typical Automotive relay rated about 40 amps

87a IS NOT USED

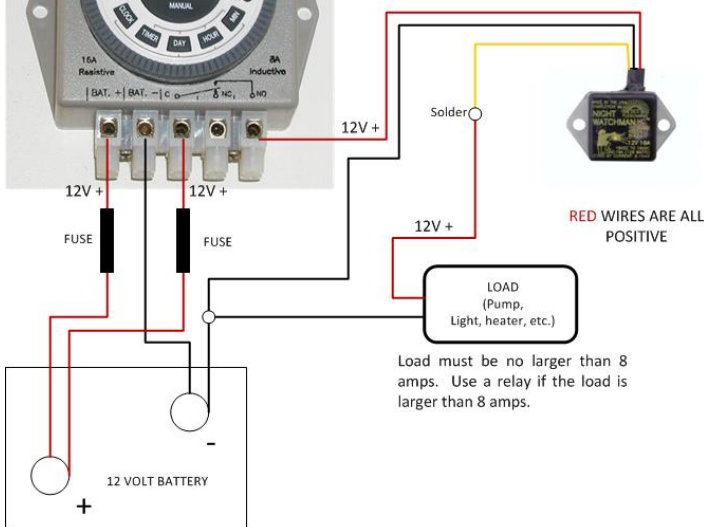
To power source. Could be 12 volts or any other voltage AC or DC

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Using the Flexcharge Night Watchman with the Flexcharge Programmable Timer.



The fuse to the BAT+ terminal should be 2 amps and the fuse to the C terminal should be about 1.5 times the load amperage



RED WIRES ARE ALL POSITIVE

Load must be no larger than 8 amps. Use a relay if the load is larger than 8 amps.

Adding the Night Watchman to the system will give you a dusk to dawn ON / OFF function and the timer will allow you to have an off time during the night to save energy if the load is not needed for part of the night.

Program the timer to come on about 1 hour before sunset. Set an off time during the night when the load does not need to be on. Set another on time when you want the load to come back on during the night. Set an off time about an hour after sunrise.