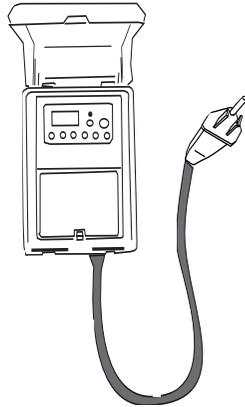




## HB77 Programmable Outdoor Timer Installation and Operating Instructions

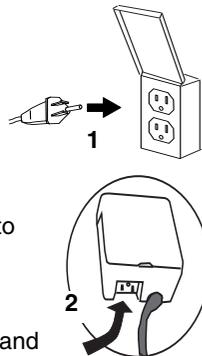


### Features

- Automatic or manual operation. Push **ON/OFF button** to switch the plugged in light(s) on or off at any time.
- Program up to 14 on/off time pairs per day (maximum 98 automatic switch settings).
- Minimum setting interval 1 minute.
- A setting can be for a particular day of the week, every day, only weekdays, only weekends, or every day but Sunday.
- Random feature turns the times on/off within 15 minutes of each program setting.
- Batteries (AA alkaline) save the time and program settings when the unit is unplugged or there is a power outage.
- Controls any 120VAC load up to 15 amps.

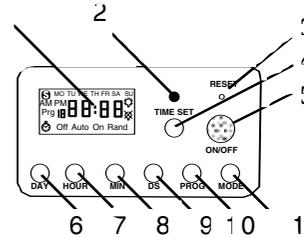
### Introduction

To activate batteries, remove battery cover and pull plastic tab. Simply plug the cord from the timer into an electrical outlet (1), then plug your incandescent lights into timer (2). The HB77 is then your programmable timer, random timer, countdown timer and manual switch.



### LOAD MAINTENANCE

**WARNING DO NOT USE THE TIMER TO TURN OFF POWER FOR MAINTENANCE** (repairs, removing broken bulbs, etc.). ALWAYS TURN POWER OFF AT THE SERVICE PANEL BY REMOVING A FUSE OR CIRCUIT BREAKER BEFORE DOING ANY CIRCUIT REPAIRS.

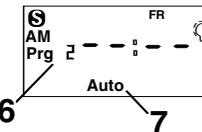
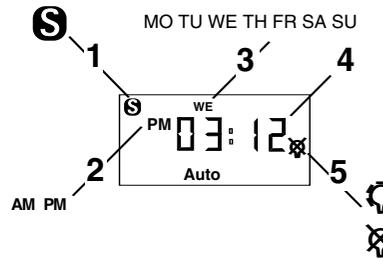


### Controls

- 1. Display** - lcd display (reset display shown).
- 2. On light** - red led is lit when the HB77 is on.
- 3. RESET button** - push the RESET button with a ball point pen to clear all programming and the clock.
- 4. TIME SET button** - push and hold to set the clock in On, Auto or Off modes.
- 5. ON/OFF button** - push and release to manually switch on or off at any time.
- 6. DAY button** - use during time set to set the day of the week, use during programming to set the day, weekend, etc. setting.
- 7. HOUR button** - use during time set or programming to set the hour.
- 8. MIN button** - use during time set or programming to set the minute.
- 9. DS button** - push and hold for a couple of seconds to switch to or from daylight savings time.
- 10. PROG button** - push and release to set or change programmed on and off times.
- 11. MODE button** - push and release to choose the mode.

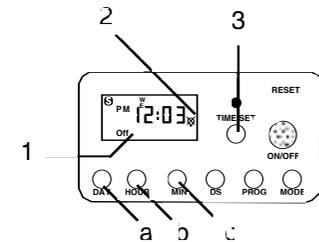
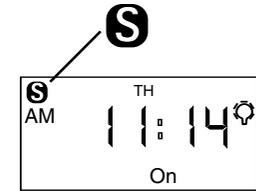
### Displays

- 1. Daylight savings symbol** indicates daylight savings time when present.
- 2. AM/PM**
- 3. MO TU ...** Day of the week.
- 4. 03:12** - Time.
- 5. On/Off display**
  - ☀ On display. Usually displayed when On light is lit and timer is on, during programming indicates an on time is being programmed.
  - ☹ Off display (Usually displayed when On light is off and timer is off, during programming indicates an off time is being programmed.)
- 6. Program number** - (1- 14)
- 7. Mode** - Countdown Timer, Off, Auto, On, or Rand. See Modes, next page, for specific mode displays.



### Daylight Savings Time

In Off, Auto, or On mode, push and hold DS for a couple of seconds to switch daylight savings time on or off. The daylight savings (S) symbol switches on or off and the time switches one hour in the appropriate direction.



### How to set the clock:

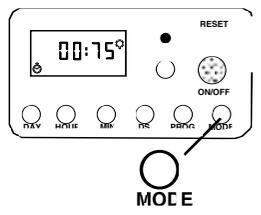
1. The mode must be On, Auto, or Off.
2. The plugged in light(s) can be on or off.  
*Note: If it is daylight savings time, push and hold DS for a couple of seconds so the daylight savings symbol appears. If it is not daylight savings time, push and hold DS for a couple of seconds so the daylight savings symbol is off.*
3. Push and hold TIME SET.
4. The blinking colon stays on (stops blinking). While holding TIME SET:
  - a. Push and release DAY to change the day of week.
  - b. Push and release HOUR to change the hour and AM/PM.
  - c. Push and release MIN to change the minute.

### Notes:

if you push and hold DAY, HOUR or MIN the display changes quickly. Seconds are set to 0 when the TIME SET button is released if either the HOUR or MIN have been set.

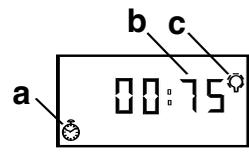
**MODE**

Push and release MODE to change the mode. The modes are Countdown timer, Off, Auto, On, and Rand.



**Countdown timer mode**

In countdown timer mode the clock symbol is displayed (a). When countdown timer mode is entered the countdown time is set to 75 minutes (b).



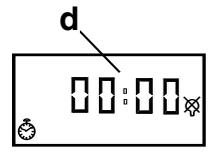
And the plugged in light(s) are tuned on (c).

The countdown timer can be set to turn the plugged in light(s) on or off after 75, 60, 45, 30 or 15 minutes. That lets you, for example, set the timer to turn the plugged in light(s) off an hour after you have left the room. The flashing alarm clock symbol indicates the HB77 is in countdown timer mode.

**To set the countdown timer:**

Push and release MODE until the countdown timer clock is displayed. (75 minutes is selected.) If desired, push and release MIN to switch change the countdown to 60, 45, 30, 15 or 0 minutes. If desired, push and release ON/OFF to switch the initial state of the plugged in light(s). Wait ten seconds or push and release TIME SET to start the countdown.

While counting down the countdown timer clock symbol flashes, and you can push TIME SET to switch between the countdown the current time.



When the countdown reaches 00:00 the connected light(s) are switched and the clock display remains 00:00 (d).

**Off mode**

In the Off mode the plugged in light(s) are off. You can push **ON/OFF button** to switch to ON mode and turn the plugged in light(s) on.



**Auto mode**

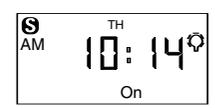
In auto mode the programmed on and off times automatically switch the plugged in light(s) on and off. See how to program the timer, below for how to enter or change the automatic program times. You can push **ON/OFF button** while in Auto mode to



manually override the program and turn the plugged in light(s) on or off. The programmed switching times remain. The timer stays in auto mode.

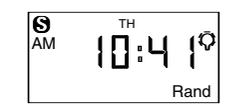
**On mode**

In the On mode the plugged in light(s) are on. Push **ON/OFF button** to turn the plugged in light(s) off and switch the mode to Off.



**Rand mode**

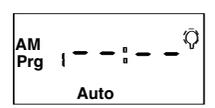
In Random mode the HB77 switches the connected light(s) on and off within ±15 minutes of the set program times.



**How to program the timer:**

You can program the timer in Auto, On or Off modes. The program is followed in Auto mode.

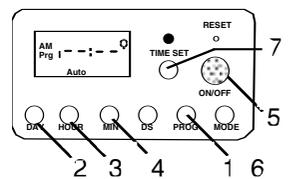
1. Push and release PROG to start the programming. Prg 1 is displayed and the display shows -- : -- or the programmed time for Prg 1. timer on (lit light bulb symbol on).



-- : -- display means there is nothing programmed for that Prg number and on / off time.

*Note: You can push and release **ON/OFF button** to switch between the Prg # on time and the Prg # off time.*

*The light bulb symbol switches on or off but the plugged in light(s) do not.*



2. Push and release DAY to choose the day\*.

*\*Push and release DAY*

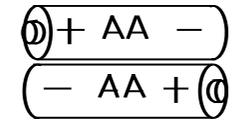
*several times to set: a single day MO, TU, WE, TH, FR, SA, or SU; or all week (all days of week displayed); or weekdays (MO TU WE TH FR displayed); or weekends (SA SU displayed); or all days but sunday (MO TU WE TH FR SA displayed).*

3. Push and release HOUR to choose the hour.
4. Push and release MIN to choose the minute.
5. When correct, push **ON/OFF button** to switch between programming on time and off time for that Prg number.
6. Push PROG to Prg 2, Prg 3, ... up to Prg 14, to program additional on and/or off times.
7. Push TIME SET or wait 15 seconds to exit programming.

*Note: In case of a conflict (for example you have programmed the timer to be on at 4 pm every day of the week and also programmed the timer to be off at 4 pm on Saturdays) the higher program number is followed. In case of a conflict within a program number Off is followed rather than On.*

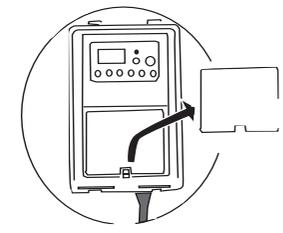
**Battery replacement**

Batteries retain the program during power outages. Batteries should last 3 years or more if the timer is left plugged in. If the display is dim, weak or unreadable when the timer is unplugged from the outlet replace the batteries.



*Note: Without batteries the HB77 will save the program for only 15 seconds. Plenty of time if new batteries are already unwrapped, and in + - polarity position.*

- The HB77 uses two AA alkaline batteries.
- Purchase fresh batteries.
- Unplug the HB77.
- Open the battery cover.
- Replace the batteries.
- Replace the battery cover.
- Plug the cord into the outlet.
- Reprogram the HB77 if needed.



**FULL ONE YEAR WARRANTY**

If within one (1) year from date of purchase, this product fails due to a defect in materials or workmanship, Intermatic Incorporated will repair or replace it free of charge.

The warranty does not apply to: (a) damage caused by accident, abuse, mishandling, dropping; (b) units which have been subject to unauthorized repair, opened, taken apart; (c) units not used in accordance with directions; (d) damages exceeding the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

This warranty service is available by either: a) returning the product to the dealer from whom the product was purchased or (b) mailing postage prepaid to the authorized service station listed below. Be sure to wrap the product securely when mailing to avoid shipping damage. This warranty is made by Intermatic Incorporated, Spring Grove, Illinois, 60081-9698.

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