http://waterheatertimer.org/Intermatic-timers-and-manuals.html#digital

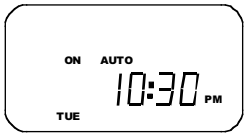

Fig. 12

**Programming AUTO, AUTO RANDOM, MANUAL**
-See Fig. 12 (CLOCK DISPLAY)
-The display shows the time of day, day of the week and whether the timer is set for ON or OFF. It also shows AUTO mode.
-In AUTO mode, the timer will work automatically as you have set it.
-To go to AUTO RANDOM mode, press **MODE** +. AUTO RANDOM mode will vary the ON/OFF times of your settings by +/- 15 minutes. This feature gives your house a more "lived-in" look in order to deter burglars.
-To go to MANUAL mode, press **MODE +.** The MANUAL mode will override the current timer setting until MANUAL is changed again.

Congratulations, you have now programmed your DT27 timer.

**Manual Override**
-Press **ON/OFF** or close the control cover and press the lower part of the cover.
-The override will change the current on/off timer setting until the next scheduled event takes effect.

**Replacing Batteries**
-The battery indicator on the display will show when the batteries are running down (See Fig. 2).
To replace the batteries:
-Place the flat end of a screwdriver under one of the holder slots and carefully pry the cover up.
-Remove the two batteries and replace with fresh LR44 batteries. Follow the placing of the batteries as shown in the battery holder (See Fig. 13 BACK OF TIMER AND PROPER BATTERY SEATING).

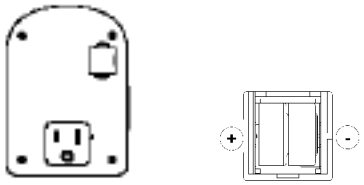

Fig. 13

**RESET BUTTON** (See Fig. 1):Using the tip of a pen, depress the **RESET** button in order to clear out CLOCK settings only.
**MEMORY CLEAR:** In order to delete all settings, press and release **RESET** while pressing **ENTER**.

**LIMITED 1 YEAR WARRANTY**

If within one (1) year from the date of purchase, this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it, at its sole option, free of charge. This warranty is extended to the original household purchaser only and is not transferable. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product; (e) sealed lamps and/or lamp bulbs, LED's and batteries; (f) the finish on any portion of the product, such as surface and/or weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs, or reinstallation costs.

**INTERMATIC INCORPORATED WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY MODIFIED TO EXIST ONLY AS CONTAINED IN THIS LIMITED WARRANTY, AND SHALL BE OF THE SAME DURATION AS THE WARRANTY PERIOD STATED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.**

This warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing the product, along with proof of purchase, postage prepaid to the authorized service center listed below. This warranty is made by: Intermatic Incorporated/After Sales Service/7777 Winn Rd., Spring Grove, Illinois 60081-9698/815-675-7000 http://www.intermatic.com Please be sure to wrap the product securely to avoid shipping damage.

**INTERMATIC INCORPORATED**
**SPRING GROVE, ILLINOIS 60081-9698**

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# DT27 DIGITAL TIMER INSTRUCTIONS

## Introduction

Thank you for purchasing Intermatic's DT27C Lamp Timer with Astronomic feature. This timer can control most 120 VAC loads up to the maximum rating on the timer label. The timer can control incandescent lights and compact fluorescent lights, stereos and appliances such as an air conditioner.

- Easy-to-use controls and set-up operation
- Automatic or manual operation (Push the door cover for manual override).
- Program up to 7 ON and 7 OFF settings.
- Astronomic feature automatically adjusts for changing seasons (see Glossary of Terms)
- Automatic Daylight Savings Time adjustment (see Glossary of Terms)
- Multiple daily settings options:
  - All days of the week
  - Individual days of the week
  - 5 weekdays
  - 2 weekend days
- Large, easy-to-read digital display
- Optional Random feature automatically varies switching times +/-15 minutes for greater security
- Two LR44 batteries keep time for up to 1-1/2 months without utility power
- Low battery indicator

Fig. 1

Fig. 2

**Glossary of Terms**

Astronomic Feature - The DT27 Astronomic Lamp Timer automatically compensates for changes in the length of daylight throughout the year. For example, the sunset in Chicago, IL varies from approximately 4:30 PM during December to approximately 9:00 PM during June. The DT27 automatically adjusts for changes in daylight. SET THE TIMER ONCE AND NO RESETTING, BECAUSE OF DAILY TIME CHANGES, IS REQUIRED.

Daylight Savings Time (DST) - The DT27 timer has an automatic Daylight Savings Time feature. The AUTOMATIC setting will adjust for daylight savings time changes. The MANUAL setting prevents automatic DST adjustments.

Astro Zone - (See map on page 3) The Astronomic program divides the United States into 3 zones. The NORTH Zone refers to locations from north of Chicago, IL. The CENTRAL zone refers to locations between Chicago, IL and southern Missouri. The SOUTH zone refers to locations south of Missouri.

**Glossary of Terms (Cont.)**

SUNUP - When using the Astronomic feature, the morning sunrise is automatically calculated by the timer. However, the exact sunrise setting can vary from area to area. The sunrise setting can be manually adjusted to match your exact sunrise time. Check your local newspaper for the exact sunrise time in your area.

SUNSET - When using the Astronomic feature, the evening sunset time is automatically calculated by the timer. The same adjustment that is used for SUNUP can be used for SUNSET.

**Programming and Operating Instructions**

**Batteries** -DT27 comes with 2 LR44 batteries.

-To start the timer, pull the tab out from the battery holder on the back of the timer (See Fig. 3). Once the tab is removed the readout will flash 12:00 AM and look like Fig. 4. For your convenience the DT27 may be set while it is unplugged from the wall outlet. If not plugged in, the timer display will go blank after a few minutes with no pushbutton activity. If this happens, simply push any button once to turn on the display, then resume setting the timer. When programming is complete, you may connect the device to the timer and plug the timer into your wall outlet.

**HELPFUL HINTS. PLEASE READ BEFORE SETTING THE DATE OR CLOCK:**

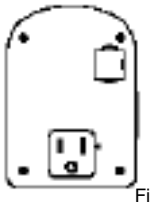

Fig. 3

1. Before setting your timer for the first time, clear the memory by momentarily pressing **RESET** while holding **ENTER/NEXT** button down (See Fig. 1).
2. Press the **MODE +** button to step through the various programming and operating modes. If you wish to skip a programming step such as SUNUP and SUNSET settings, press the **MODE +** button to pass any section of the program.
3. When you complete a step in setting the DATE or each FIXED EVENT times, press the **ENTER/NEXT** button.
4. By pressing and holding any button, the display will advance rapidly.
5. In order for the Astronomic Feature and automatic DST settings to function properly, the DATE settings must be entered correctly.
6. In the event that the batteries are allowed to run down, or are removed for more than 15 seconds, the timer will maintain the year, month, day and all prior programming settings. If the batteries are replaced on the same day, only the time of day would have to be reset.
7. Quick instructions are located on the label inside timer door.

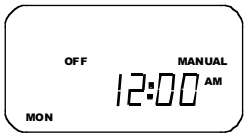


Fig. 4

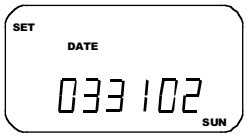


Fig. 5

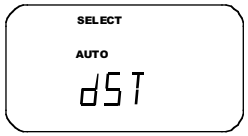


Fig. 6

**Setting the DATE**

-Press the **MODE +** button. The DATE will flash on the month. Press the **SET + or -** to get the correct month (See Fig.5). Press **NEXT**.

-The day now flashes. Press **SET + or -** to get to the correct day. Press **NEXT**.

-The year now flashes. Press **SET + or -** to get to the correct year. The DATE is now set. Press **MODE +** to go to the time setting mode. (NOTE: The day of the week is automatically determined and is shown at the bottom of the display).

**Setting the CLOCK**

-The display now shows the same as in Fig. 4.

-To set the CLOCK, press **SET + or -** to get to your time. If you hold the **SET** button down, the time will scroll faster than individual "hits". Also, if you hold the **SET** button down until the time reaches 10:00, the time will scroll in hour increments only.

-Once the CLOCK is set, press **MODE +** to go to DST.

**Setting DST**

-See Fig. 6. (dST SCREEN)

-If you want the timer to automatically compensate for DST, the display automatically defaults to AUTO. Press **MODE +** to go to the next step.

If you do not want the automatic DST feature, press **SET +** or **ENTER/NEXT** and the display will read MANUAL. Press **MODE +** to go set the ASTRO feature.

**Setting ASTRO**

-See Fig. 7 (SELECT ASTRO ZONE SCREEN) and Fig. 8 (MAP)

-See Fig. 8 to determine whether you live in NORTH, CENTER OR SOUTH ZONE.--Using the **SET +** button set the zone in which you live.

-Press **MODE +** and the pre-programmed SUNUP time is displayed. If you wish to change this time, press **SET + or -** until your exact area SUNUP time is displayed.

-Press **MODE +** and the pre-programmed SUNSET time is displayed.If you wish to change this time, press **SET + or -** until your exact area SUNSET time is displayed.

Fig. 7

Fig. 8

**Programming ON/OFF Times**

There are two ways to program the DT27 timer. **See Programming ON/OFF Event Times with Astro and Programming ON/OFF EVENT times without ASTRO.**

- You may program each desired ON/OFF setting by selecting specific event times or you may use the ASTRO SUNUP or SUNSET settings.
- In order to use the ASTRO features you must have already followed all previous instructions.
- The DT27 timer has up to 7 ON and 7 OFF settings.
- Each ON or OFF setting may be programmed to occur on any specific day, all days of the week, weekdays only, or weekends only.

**Programming ON/OFF Event Times with ASTRO**

-See Fig. 9. (SUNSET SCREEN)

-The display now shows choices for SUNSET timing.

-The timer displays setting the device ON for all days of the week. If this is your selection, press **MODE** + to go to SUNUP OFF time. This also shows all days of the week. If this is acceptable, press **MODE** + to continue.

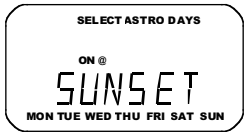


Fig. 9

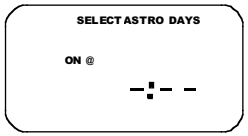


Fig. 10

To set specific days, press **DAY**.

-See Fig.10 (NIL SCREEN) for the first screen. This is a blank screen - **IF YOU DO NOT WANT TO USE THE ASTRO FUNCTION, see "PROGRAMMING ON/OFF Times Without ASTRO".**

-If you wish to use the ASTRO function, press **DAY** again. See Fig. 9.If you do not wish to set the timer for all days, press **DAY** to show MON - FRI. Press DAY for SAT- SUN. Or press **DAY** to set the time on individual days. When you have selected your choice, press **MODE +** to go to SUNUP timer choices. Follow the same directions as used for SUNSET setting.

**Programming ON/OFF Event Times Without ASTRO**

-See Fig. 10. (NIL SCREEN) This is a blank screen - IF YOU DO NOT WANT TO USE THE ASTRO ON FUNCTION (SUNSET), SELECT THIS SCREEN AND PRESS **MODE +** TO GO TO THE ASTRO OFF FUNCTION (SUNUP). REPEAT IF YOU DO NOT WANT TO USE SUNUP ASTRO.

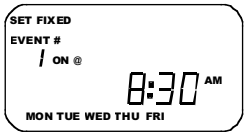


Fig. 11

-You can now set EVENT 1, which is your first ON setting. Press **DAY** to set the day(s) that the settings will be used (Same as in Programming ON/OFF Times with ASTRO. Using **SET + or -** set the time you would like your device to be turned on. Press **ENTER/NEXT** button to go to EVENT 2.

-EVENT 2 is the OFF setting for EVENT 1. Follow the same instructions as for EVENT 1.

-Follow these same directions for all other EVENT settings. When you have completed your EVENT settings, press **MODE** + to go to AUTO, AUTO RANDOM or MANUAL settings.