The InternaTmatic ET1700 Series Electronic 7-Day Time Switch automatically switches loads to a preset weekly schedule with to-the-minute accuracy.

The independent 7-day programming provides complete flexibility for applications where load switching differs each day of the week. Use the ET1700 series as an ON/OFF timer in applications requiring 7-day load control such as lighting, air conditioning systems, pumps, etc. Each load output of the Time Switch can support up to 14 timed ON and 14 timed OFF events per day. The program can be overridden by pushing the ON/OFF load override button(s).

The ET1700 Series Time Switch is designed to directly switch tungsten or ballast loads up to its rating, and inductive or resistive loads up to 30A at 120, 208, 240, or 277 VAC.

**Specifications**

**Time Switch**
- Input Voltage: 120/208/240/277 VAC, 50/60 Hz
- Power Consumption: 6.0 watts max.
- Contact Configuration: SPST (ET1705C), DPST (ET1725C), and SPDT (ET8115C). See wiring diagrams on next page.

**Switch Ratings—ET1705C, ET1725C (per pole)**
- 30A Inductive/Resistive: 24/120/208/240/277 VAC, 60 Hz
- 20A Ballast: 120-277 VAC, 60 Hz
- 20A Resistive: 28 VDC
- 5 A Tungsten: 120/240 VAC, 60 Hz
- 1 HP: 120 VAC, 60 Hz
- 2 HP: 240 VAC, 60 Hz

**Switch Ratings—ET1715C (NO/NC) Normally Open/Normally Closed Contact**
- 20A/10A Inductive/Resistive: 120/208/240/277 VAC, 60 Hz
- 20A/10A Resistive: 28 VDC
- 6A/3A Ballast: 120-277 VAC, 60 Hz
- 5A/3A: 120/240 VAC Tungsten
- 1 HP / ¼ HP: 120 VAC, 60 Hz
- 2 HP / ½ HP: 240 VAC, 60 Hz

**Set Points (Events)—Each load output of the Time Switch can support up to 14 timed ON and 14 timed OFF events per day.**

**Battery-Powered Clock Operation—2 years minimum (uses 2 AAA industrial grade alkaline batteries, supplied)**

- Minimum ON or OFF time—1 minute
- Maximum ON or OFF time—6 days, 23 hours, 59 minutes

**Installation Instructions**

**WARNING—Risk of Fire or Electric Shock**
- Electrical shock hazard. To avoid fire, shock, or death, disconnect all power before installing or servicing time switch or connected loads.
- Follow local electrical and safety codes, National Electric Code (NEC) and Occupational Safety and Health Act Codes (OSHA).
- If the power disconnect point is out of sight, lock it in the OFF position and tag it to prevent unexpected application of power.
- This time switch must be grounded.
- Do not exceed maximum current carrying capacity.
- Always replace the plastic insulator covering the terminal before powering ON.

** WARNING: Disconnect the power to the Time Switch and the loads before installation.**

1. Remove the mechanism from the case by depressing the catch at the top of the case and pulling out, as shown. **CAUTION: Do not touch circuit board components since static discharge could damage the microprocessor.**

2. Set voltage selector for desired input voltage. The timer is shipped with voltage set for 120 VAC. To operate at 208, 240 or 277 VAC, move the selector switch to the desired setting as marked on the circuit board. See location A in Rear View above and detail at the right.

3. The timer is shipped with DST (Daylight Saving Time) enabled. To disable DST, insert a jumper at location marked DST. See location B in Rear View above and detail at the right.

4. **ET1725C ONLY—**Decide whether you want to control multiple loads simultaneously (SIM), independently (IND), or with a 2-second pulse (PUL) (e.g., for use with mechanically held contactors or bell ringing applications), and make sure the jumper is positioned accordingly. See location B in Rear View above and detail at the right. (The unit is shipped with the loads set for IND.)
5. Mount the enclosure in the desired location using the 3 mounting holes provided.

6. Replace the mechanism in the enclosure.

7. Lift the left side of the plastic insulator off the retaining post and pivot it up and away to expose the terminal strip.

8. Strip the supply and load wires to 1/2”.

9. Insert the wire ends under the proper terminal plates (see wiring diagrams elsewhere on this page) and tighten the screws firmly.

10. Connect ground wire to grounding terminal at bottom of enclosure.

11. Remove the battery case by sliding it down as shown by the arrows, then install 2 AAA alkaline batteries. Make sure the batteries are pointing in the direction shown.

12. Verify that the display is ON to make sure the batteries are OK.

13. If the display shows scrambled information, press the RESET button to clear it up.

14. Apply power to the Time Switch.

15. IMPORTANT: Press and hold the ENTER button, then press the RESET button. The screen will flash 12:00 AM and MON, and timer status is Manual Mode.

NOTE: You must reset the time switch using this procedure whenever you change the jumpers.

The Time Switch is now ready for programming.

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Programming Overview

By pressing the MODE button, the Time Switch will cycle through the menus necessary for programming the current time, date, and timed events.

The basic procedure is to use the MODE button to move from one menu to the next (e.g., DATE, TIME, etc.), the + or – buttons for the first part of a setting (e.g., MONTH), the ENTER button to move to the next part of the setting (e.g., YEAR), then MODE to exit and move to the next menu. To skip a menu, press MODE to move ahead.

If you make a mistake, press the MODE button repeatedly to cycle back around to the error, then make the correct entry.

NOTE: DATE and TIME must be set before you can access any other programming menus.
2 – Setting Time

1. If necessary, press the MODE button repeatedly until the words SET and CLOCK appear in the upper area of the display.
2. Press the + or – buttons to enter the current time.
   NOTE: To go from AM to PM, keep pressing the + or – buttons to cycle through the day. You can hold the + or – buttons down for 3 seconds to make the time scroll quickly.
3. Press the MODE button to exit and advance to setting Events.

3 – Setting Fixed Timed Events

1. If necessary, press the MODE button repeatedly until the words SET, FIXED, ON/OFF EVENT and EVENT 1 appear on the display.
2. If necessary, press the ENTER button to display ON @ or OFF @ (depending on what you want to set).
3. Press the DAY button to display 12:00 am and all days of the week.
4. Press the + or – buttons to enter the time you want to set.
   NOTE: To go from AM to PM, keep pressing the + or – buttons to cycle through the day. You can hold the + or – buttons down for 3 seconds to make the time scroll quickly.
5. If you want the Event to occur for a combination of days rather than every day (e.g., weekends only, weekdays only, or individual days), press the DAY button again as necessary to cycle through the individual days or combination of days you want.
   NOTE: To choose a combination not shown during cycling (e.g., Tuesday and Thursday), you must create an individual event for each of the days you want.
6. ET1725C ONLY—For a multi-circuit device with loads set independently, you can choose the load you want the event to control. The default setting is for both loads, as you can see on the display. Press the ON/OFF button under a load to remove the load from the event.
7. When you have set the event correctly, you have two choices:
   - Press the ENTER button to set the next fixed time event (up to 28 events).
   - Press the MODE button to exit.

Operating the Time Switch

Press the MODE button repeatedly to select the desired operating mode on the display. There are 2 options:

- AUTO—where the Time Switch follows the events you have programmed, turning the circuits ON and OFF at the time(s) set.
  NOTE: You can override programmed events and force the Time Switch ON or OFF by pressing the ON/OFF button.
- MANUAL—where any events set are disabled and the Time Switch controls all circuits through the ON/OFF button.

NOTE: You can review or edit any programmed events at any time by pressing the MODE button repeatedly to return to the appropriate menu, then following programming instruction provided on this sheet.

OPTIONAL – Deleting (Clearing) an Event

Use this procedure to clear the settings programmed for an event.
1. If necessary, press the MODE button repeatedly until the words SET, FIXED, and ON/OFF EVENTS are shown on the display.
2. Press the ENTER button as necessary to cycle through events that have been set until you see the event you want to delete.
3. Press the + or – buttons AT THE SAME TIME to display --:-- --.
4. Press the MODE button to exit.

Battery Maintenance

- Batteries can be easily replaced without removing the Time Switch mechanism or field wiring.
- Press in and downward (in the direction of the arrows) on the battery cover.
- It is recommended to replace the batteries every 2-3 years with 2 AAA industrial grade alkaline cells as part of normal maintenance on the Time Switch.
- Be sure to observe battery polarity markings when installing batteries.
- No other battery maintenance is required.

LIMITED ONE-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.

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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.

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