

### Installation and User Instructions

#### WARNING Risk of Fire or Electric Shock
- Disconnect power at the circuit breaker(s) or disconnect switch(es) before installing or servicing.
- Installation and/or wiring must be in accordance with national and local electrical code requirements.
- Do NOT use timer to control devices that could have dangerous consequences due to inaccurate timing such as sun lamps, sauna, heaters and crock pots.
- Do NOT use with mercury vapor lights, appliances, radios, televisions, stereos, etc.
- Use ONLY with incandescent lights. Do not use with compact fluorescent lamps (CFL’s), starter or other electronic ballasts.

#### NOTICE
- Do NOT use to control receptacles.
- Do NOT use with PAR or "R" type rated outdoor flood lamps larger than 150 watts.
- Do NOT use in combination with separate dimmers or photoelectric switches.
- Do NOT use to control receptacles.
- In rare cases, may cause radio or TV interference which can be resolved by adjusting the antenna, moving the receiver, or plugging into a different AC outlet.

### Specifications
- 500W maximum (1 timer in wall box), 400W (2 timers in wall box), 40W minimum (incandescent)
- 120 VAC, 60 Hz
- 30 minute minimum ON/OFF period
- 24-hour repeat cycle
- Up to 48 daily operation events (24 ON, 24 OFF)
- Random Variability: For “lived in” look, ON/OFF times vary at least 7 minutes from the set time and at least 15 minutes from the previous day.
- Power Failure Memory Protection: Depending on conditions at time of power failure, will retain settings up to 15 minutes.
- Operate at Room Temperature: 32°F (0°C) to 104°F (40°C)

### Programming Using the RAPID Method

Use this procedure to manually program ON/OFF settings.

1. **Move the control lever to the OFF-CLEAR position for about 20 seconds.** The red indicator light will go off and any previous time settings will be cleared from memory.
2. **Move the control lever to the ON position.** The Red indicator light will start flashing.
   
   **NOTE:** Should the Red indicator light remain ON, move the control lever to the OFF - CLEAR position for 20 minutes.
3. **Rotate the time dial clockwise at least one click, stopping at the present time.**
   
   **NOTE:** During programming, be careful not to press the dial while turning it. If you press the dial, you will accidentally set a wrong time.
4. **Press the dial once to set the present time.** The Red indicator light will go off.
5. **Rotate the time dial clockwise to the first desired ON time.** The Red light will pulse momentarily with each click.
6. **Press the dial once to enter the ON time.** The light controlled by the switch timer will turn ON.
7. **Rotate the time dial clockwise to the desired OFF time.**
8. **Press the dial once to enter the OFF time.** The light controlled by the switch timer will turn OFF.
9. **Repeat Steps 5-8 for each additional ON/OFF setting.**
10. **Continue to rotate the time dial until the Red indicator light comes on and stays ON,** indicating that the switch timer is in AUTOMATIC mode.

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### Model EJ351

**Indoor Wall Switch Timer**

- If the old switch had a ground wire (normally connected to a green hex-head screw), fasten it securely to the metal box or timer metal bracket.
- Make sure all twist connectors are tight.
- Tuck wires into wall box leaving room for the device.
- Using 2 flat-head screws provided, mount the switch timer into the wall box.
- Position the wall plate over the switch timer, making sure the upper screw hole of the wall plate is over the RED indicator light.

11. Press the dial onto the switch timer's shaft. Align the flat side of the shaft with the flat side within the dial.
12. Turn power back on at the service panel.

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### The EJ351 Switch Timer

- The EJ351 Switch Timer replaces a standard toggle switch. Installation requires the following tools:
  - Flat-blade screwdriver
  - Phillips-head screwdriver
- 1. Turn off power at the service panel by REMOVING FUSE or TURNING THE CIRCUIT BREAKER OFF.
- 2. Remove the switchplate and existing wall switch.
- 3. Trim building wires to 7/16" as shown.
- 4. Connect two wires from the wall to the BLACK wires from the switch timer, using the twist connectors provided.
**Programming Using the 24-HOUR Method**

Use this procedure to **automatically program**, letting the switch timer "record" your ON/OFF activities over a 24-hour period, storing them as programmed settings.

1. Move the control lever to the OFF-CLEAR position for about 20 seconds. The red indicator light will go off and any previous time settings will be cleared from memory.
2. Move the control lever to the ON position. The Red indicator light will start flashing.

**NOTE:** Should the Red indicator light remain ON, move the control lever to the OFF - CLEAR position for 20 minutes.

3. Press the dial as an ON/OFF switch to turn lights ON and OFF at the ON and OFF times you desire for the first 24 hours.
4. At the end of the 24-hour period, the switch timer will be programmed and the Red indicator light will stay ON, indicating that the switch timer is in AUTOMATIC mode.

**Reviewing the Settings Stored in Memory**

Use this procedure to check the settings programmed into the switch timer.

**NOTE:** Reviewing will not change or delete the program. The only way to delete a program is to move the control lever to the OFF-CLEAR position for about 20 seconds. This clears the entire memory.

1. Make sure the switch timer is in AUTOMATIC mode, with the Red indicator light on.
2. Rotate the time dial clockwise at least one click, stopping at the nearest half hour to the present time.
3. Press the dial once to start the Review cycle. The Red indicator light will go OFF.

4. Rotate the time dial slowly clockwise, observing the time shown on the dial when the light controlled by the switch timer goes ON and OFF.
5. Press the dial once to end the Review cycle. The Red indicator light will go ON and stay ON, indicating that the switch timer is in AUTOMATIC mode.

### Troubleshooting Guide

<table>
<thead>
<tr>
<th>Observed Problem</th>
<th>What to Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Switch Timer cannot be programmed using the RAPID method.</td>
<td>Was the timer correctly programmed according to the instructions? If not, try again.</td>
</tr>
<tr>
<td></td>
<td>Make sure the Control Lever is in the ON position.</td>
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<td></td>
<td>Make sure the Red Indicator Light is flashing before beginning programming.</td>
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<td></td>
<td>Make sure you have set the Current Time before programming ON/OFF times.</td>
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<td></td>
<td>Make sure you are pressing the Dial fully during the programming sequence.</td>
</tr>
<tr>
<td>The Switch Timer does not turn lights ON and OFF automatically, as programmed.</td>
<td>Was the timer correctly programmed according to the instructions? If not, try again.</td>
</tr>
<tr>
<td></td>
<td>Make sure the timer is not accidentally in MANUAL mode, with the Red indicator light OFF.</td>
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<td></td>
<td>Make sure the controlled light bulb(s) is tight in its socket and is not burned out.</td>
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<td></td>
<td>Check the wiring for any loose connections.</td>
</tr>
<tr>
<td>The Switch Timer does not turn light ON or OFF when pressing on the Dial.</td>
<td>Make sure the controlled light bulb(s) is tight in its socket and is not burned out.</td>
</tr>
<tr>
<td></td>
<td>Check the wiring for any loose connections.</td>
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<td></td>
<td>Check for a burned out fuse or circuit breaker.</td>
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<tr>
<td>The Switch Timer is warm to the touch.</td>
<td>Some warmth is normal. Be sure the combined light bulb wattage does not exceed 500 watts.</td>
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<td>The controlled light flickers or goes to half brightness.</td>
<td>Recheck the wiring. Make sure the light is an incandescent. Timer is not for use with CFL or LED lights.</td>
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### Limited One-Year Warranty

If within the warranty period specified, 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) completing a warranty claim online at www.intermatic.com. For warranty service go to: http://www.Intermatic.com or call 815-675-7000.

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