Troubleshooting Guide

**Observed Problem**
- Switch timer does not switch ON/OFF but displays looks normal.
- Switch timer won’t enter AUTO or RANDOM mode when you press MODE.
- Switch timer switches at incorrect times or skips some of the programmed times.

**Possible Cause**
- Programmed schedule(s) are incorrect.
- The time of day or timer settings have not been set.

**What to Do**
- Press MODE to reprogram the settings and review them as necessary. See instructions at the left.
- Make sure the time of day and at least one scheduled activity have been set.
- If you don’t want to keep the switch timer in RANDOM mode, press MODE to change to AUTO mode.

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**Troubleshooting Guide**

1. **Before Installing Switch Timer, Install and Check Battery**
   - **1.** Before Installing Switch Timer, Install and Check Battery
     - Replace the supplied batteries. Make sure battery tray is pushed in.
     - If there is a pull tab at the battery tray, remove the tab to connect the battery.
   - **2.** Install the Switch Timer
     - Connect one of the two wires from the switch timer to the blue RED wire at the service panel before installing.
     - Connect the other wire from the old switch to the blue RED wires from the switch timer.
   - **3.** Connect the GREEN wire to the grounding screw in the box. If the building’s wiring colors don’t allow you to tell wires “A” and “B,” see diagram # 3 below, if using a new single-pole remote switch.
   - **4.** Close the access door to reveal the battery tray, located below the switch timer, using the supplied piece of jumper wire, if necessary. Follow diagrams # 3 and # 4 for how to check.
   - **5.** Place the supplied “CR2” battery into the tray, observing + and – markings on tray.
   - **6.** Replace the battery timer into the switch.
   - **7.** The display will initialize itself then flash “12:00 AM” in MANUAL mode.
   - **8.** Press the ON/OFF button. The switch timer should “click.”
     - If display doesn’t flash “12:00 am,” the battery may be dead. Replace the battery before installing the switch timer.

2. **Install the Switch Timer**
   - **1.** Turn off power at the service panel by REMOVING FUSE OR TURNING THE CIRCUIT BREAKER OFF.
   - **2.** Remove the existing wall switch.
   - **3.** Trim building wires to 7/16” as shown.
   - **4.** After the installation is complete, if the controlled light or device will not turn on properly, simply reverse wires “A” and “B.” See Steps J and K for how to check.

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**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 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 limited to 12 months from date of purchase and shall be the exclusive remedies for breach of warranty. Some states do not allow limitations on the duration of implied warranty, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

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 exclusive of all other express or implied warranties, including the Warranty of Merchantability and the Warranty of Fitness for a Particular Purpose. Intermatic Incorporated will not be liable for damages or loss incurred by the consumer as a result of the cost of replacing the product, or weather it is a consumer’s fault or not. Intermatic Incorporated will not be liable for damages or loss incurred by the consumer as a result of the cost of replacing the product, or weather it is a consumer’s fault or not. All modifications and/or repairs made by anyone other than Intermatic Incorporated or an Intermatic Authorized Service Center are void.

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**ELECTRICAL SHOCK HAZARD. RISK OF INJURY OR DEATH. REMOVE ELECTRICAL POWER AT SERVICE PANEL BEFORE INSTALLING OR SERVICING.**

**NOTICE**

- Follow local electrical codes during installation.
- Risk of injury due to failed battery is not replaced promptly.
- Dispose of used battery promptly per local regulations.

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**Intermatic Customer Service**

For assistance, please call 1-800-355-3738, Monday-Friday, 8:00 AM to 5:00 PM (CST) - or visit www.intermatic.com. This warranty 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 limited to the original consumer purchaser and is not transferable. This warranty is valid only for products purchased in the U.S. and Canada through authorized resellers. This warranty is void if the product has been altered, tampered with, or used as part of a system or equipment that is not specified or approved by Intermatic. Intermatic reserves the right to refuse warranty service on any product that is not purchased from an authorized dealer.

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**Specifications**

Model: STS1 Series

- **Resistive (heat) 15 Amp, 120-277 VAC**
- **Tungsten (heater) 15 Amp @ 120 VAC, 6 Amp @ 208-277 VAC**
- **Ballast (fluorescent) 15 Amp @ 120 VAC, 4 Amp @ 208-277 VAC**
- **Motors 1 HP @ 120 VAC, 2 H.P @ 240 VAC**
- **DC Loads 4 Amp @ 12 VDC, 2 Amp @ 28 VDC**

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**Electrical Shock Hazard. RISK OF INJURY OR DEATH. REMOVE ELECTRICAL POWER AT SERVICE PANEL BEFORE INSTALLING OR SERVICING.**

**NOTE**

- 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.
- Some states do not allow limitations on the duration of implied warranty, so the above limitation or exclusion may not apply to you.
- Do not pull the cover off to reveal the lithium battery. Keep battery out of reach of children. Replace only with Panasonic type CR2 or equivalent CR2 battery approved by Underwriters Laboratories (UL). Use of a different battery type may result in a fire or explosion upon disposal.
- Do not use timer to control devices that could have dangerous consequences due to inaccurate timing, such as sun lamps, saunas, heaters, crock pots, etc.

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**Programming a Schedule**

- After entering your schedules or the time, then returning to the AUTO mode, push the ON/OFF button to change the load state if necessary.
- If there is a pull tab at the battery tray, remove the tab to connect the battery.
- Replace the battery tray into the switch timer.
- The display will initialize itself then flash “12:00 AM” in MANUAL mode.
- Press the ON/OFF button. The switch timer should “click.”

**NOTICE**

- Follow local electrical codes during installation.
- Risk of injury due to failed battery is not replaced promptly.
- Dispose of used battery promptly per local regulations.
5 – Set the Date and Time

In order for the Astronomic Feature and automatic Daylight Saving Time settings to function properly, the CALENDAR settings must be correct. The list of steps BELOW explains WHAT IT MEANS: the icon of the LIGHT BULB indicates whether the switch timer is ON or OFF. The WHITE area of the example screens is what will be flashing on your switch timer.

1. Press MODE until the screen displays SET UP.
2. Press ON/OFF to display the program number, then press + until you see the program number you want to set (Fig. 14).
3. Press + if necessary, to display ON for setting the ON time (Fig. 15). Continue to press + for OFF (if setting an OFF time)
4. Press ON/OFF, then + to display whether you want ON to be set for DUSK, DAWN, or a specific time which would be shown as “12:00” (Fig. 16) if you change it.

If ON is set to Dusk or Dawn

NOTE: Some people like to set DUSK as an ON time and match it with a specific time such as 11:00 pm for OFF.

a. Press to display DUSK (Fig. 18). Continue to press + for DAWN (if setting DAWN as the on time).

b. Press ON/OFF to display the days you want the setting to be active, then press + to select either ALL days, M-F, WeekEnd, or an individual day. Fig. 17 shows ALL as an example.

c. Press ON/OFF again. The display will briefly show SAVE.

You have successfully set the ON time as DUSK, and must now repeat this procedure to set the OFF time to go with it.

The display will loop back to Step 2 above, ready for you to set another program. Press + to display a flashing “02” (Fig. 18).

• To set PROGRAM 2, follow this procedure again, repeating from Step 1 above.

• When you’re finished, press MODE to exit from programming and automatically save your new settings.

Changing Programming – Deleting an ON or OFF Setting

Use these steps to change an existing ON or OFF setting that you no longer want (for example, special settings from a vacation.)

1. Press MODE until the screen displays ProGram.
2. Press ON/OFF to display the program number, then press the + button until you see the program number you want to revise (Fig. 25).
3. Press ON/OFF, then the + button until SKIP is displayed (Fig. 26). The switch timer will now loop through the whole programming process.
4. Press ON/OFF again to cycle through the program until the display briefly shows SAVE.

5. Press MODE to exit from programming and automatically save your new settings.

RESULT: Note this step and select ON or OFF to reevaluate the setting.

7 – Selecting AUTO, Random, or Manual Operation

Once set up, you have three choices for using the switch timer. To make a selection, open the front cover and press the MODE button until you see your choice of the following options:

• AUTO – will operate the switch timer “forgets” the time and date. The screen flashes “BATT” when the battery is getting low.

• Random – gives your home a “lived-in” look by varying your settings by a random number of ± 20 minutes or so.

• Manual – makes the switch into a standard ON/OFF switch with manual settings. Press on the door of the switch timer for ON, press again for OFF.

About the Battery

• The single lithium CR2 battery operates the ON/OFF function (“on”) and maintains your time of day and date. The screen flashes “BATT” when the battery is getting low.

• The battery may be changed without removing AC power.

• You have about one minute to swap batteries before the switch timer “forgets” the time and date. Afterwards, if the display is wrong or flashes “12:00 AM”, reset the time and date. All other settings (your ON/OFF programming) remain in memory indefinitely without battery or AC power.

• To test the battery, press the ON/OFF button. The timer should “click.”

• Replace the battery per Section 1 Instructions as soon as possible after the low “BATT” message appears.

• Do not leave exhausted battery in Switch Timer. (Risk of leakage.)

• Replace only with Panasonic Type CR2 lithium battery or equivalent approved by manufacturers Laboratory Data.

• Dispose of the used battery promptly according to local regulations. Keep battery away from children. Do not disassemble and do not incinerate battery.

Revise the switch timer’s programming:

It’s unlikely that the new switch timer has any existing programming but to make sure, use this procedure before setting the time:

1. Open the front cover.
2. Hold down ON/OFF.
3. Using a pen or paper clip, press and release RESET, which is the small round button to the lower right of the + button.
4. When the display screen INIT, release ON/OFF. The screen will initialize, then flash “12:00” (Fig. 27) in MANuAl mode.

All previous settings are now deleted.

Clear Any Existing Programming

It’s unlikely that the new switch timer has any existing programming but to make sure, use this procedure before setting the time:

1. Open the front cover.
2. Hold down ON/OFF.
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