

## T-SS-PS Digital Power Switch Instructions

**NOTE:** If your power switch is to be placed into a hard to reach or hard to see area, we recommend that before mounting the transformer, plug it into a accessible outlet and program the power switch.

### TO BEGIN: (circled numbers coincide with diagram at bottom)

- Open the power switch door① using a small screwdriver.
- Ensure that the ON/OFF② switch is set to ON.
- Press in the RESET③ button using a small nail.

### SOLAR INFORMATION:

#### DEFINING THE PARAMETERS OF YOUR CITY (LOCALITY)

Before programming your power switch, answering the following questions:

Latitude	Longitude	Lc
Day #	nor/Ad	

See Back Page

See Below

### FIND THE DAY OF THE YEAR (USE FOLLOWING TABLE)

Ex: Today is June 24.      nor / Ad  
 Day # = 151 + 24 = 175      Standard Time = nor  
    Daylight Savings Time = Ad

January	0	July	181
February	31	August	212
March	59	September	243
April	90	October	273
May	120	November	304
June	151	December	334

### ENTER SOLAR INFORMATION (from charts above):

Press **CODE**Ⓢ key, then release "00" will appear.

Press **MIN**Ⓜ key until correct Latitude appears (from above info).

Press **CODE**Ⓢ key, then release "000" will appear.

Press **MIN**Ⓜ key until last 2 digits of correct Longitude appears.

Press **HOUR**Ⓜ key repeatedly until correct first digit of Longitude appears (either 0, 1, -0 or -1).

Press **CODE**Ⓢ key, then release, "0:00" will appear.

Press **MIN**Ⓜ key until last 2 digits of correct day number appears.

Press **HOUR**Ⓜ key repeatedly until correct first digit of day number appears (either 1, 2 or 3). (from above info)

Press **CODE**Ⓢ key, then release, nor/Ad will appear.

Press **MIN**Ⓜ key to select from nor or AD (from above info).

Press **CODE**Ⓢ key again, display will read Lc0.

Press **MIN**Ⓜ key to enter Local Correction Factor (Lc) (either 0 or 1 from above info). (The Lc factor is important as it correctly adjusts the sunset & sunrise on/off times in your area).

Press any **CONTROL**Ⓚ key, a time will be displayed (time between 0:00 or 1:00).

**NOTE:** If you make a mistake, press **CODE**Ⓢ key and start all over.

### SET CLOCK TIME:

Before programming clock time, set the hour format to 12 (standard time) or 24 (military time). Change the time format by pressing and holding the **MIN**Ⓜ button down as the **HOUR**Ⓜ button is pressed and released. Then release **MIN**Ⓜ button.

For standard time (12 hours), display will show "12:00".

For military time (24 hours), display will show "0:00"

**NOTE:** If you have entered AD (for daylight savings time)...the display will read "1:00" for both military and standard time. Follow the directions below to set the clock time to 1:00 p.m. standard time (or 13:00 military time), then make your adjustment between standard and military time as desired.

Press **HOUR**Ⓜ repeatedly until correct hour is shown--P.M. shows just left of hours.

Press **MIN**Ⓜ repeatedly until correct minute is shown.

Press **CONTROL**Ⓚ key.

**TIMER PROGRAMMING:** For 1st program -- Press **PGM**Ⓟ switch until P1--ON shows with hour and minutes (this is sunset time, result of solar time).

Press **PGM**Ⓟ again, P1 OFF shows--use **HOUR**Ⓜ and **MIN**Ⓜ to set time off. Again, watch for PM to the left of **HOURS**Ⓜ.

For 2nd program--Press **PGM**Ⓟ until P2 on the "--:--" appears.

Press **HOUR**Ⓜ and **MIN**Ⓜ to show time ON that you desire (must be different than sunset).

Press **PGM**Ⓟ again until P2 OFF shows with hours and minutes (this is sunrise time, result of solar time).

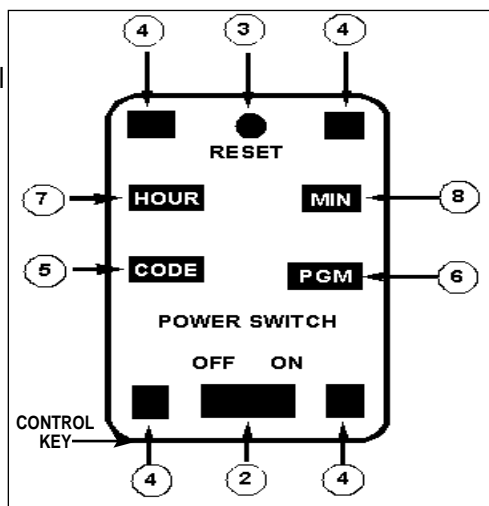
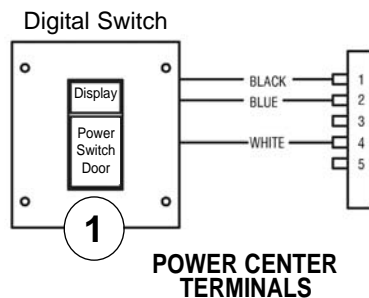
**FINISH:** When both P1 and P2 programs are completed simply close and push door, hold for 3 seconds.

This will return to automatic mode. Push door again, one time to manually turn system on--push again to turn off.

**NOTE:** To switch between Manual and Automatic modes, close and push door, hold for 3 seconds until desired mode appears.

**CHECKING PROGRAM SETTING:** Open door then press **PGM**Ⓟ one time for "On time program", press again for "Off time", Press again for "On time program #2" Press again for Off time"--close door to return to normal operation.

### DIGITAL POWER SWITCH WIRING DIAGRAM



### RECORDING OR MODIFYING YOUR PROGRAMS

- 1--Press **PGM**Ⓟ key to select program.
- 2--Use **HOUR** and **MIN** keys to modify the program.
- 3--Press on the **CODE** key to reset the initial value.  
 P1 ON = sunset    P2 OFF = "--:-- : ---"  
 P2 ON = "--- : --:--"    P2 OFF = sunrise
- 4--To return to operating mode **MANUAL** or **AUTOMATIC**, simply close the door.

**PICK A CITY THAT IS CLOSEST TO YOUR LOCATION.  
 FOR EVERY 100 MILES DIFFERENCE IN LOCATION, THE SOLAR CLOCK WILL BE  
 OFF APPROXIMATELY 2 MINUTES ON SUNSET/SUNRISE.  
 FOR CITIES NOT LISTED, YOU CAN ALSO GO TO WEB SITE:  
<http://www.infoplease.com/ipa/A0001796.html>**

	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>Lc</u>		<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>Lc</u>
<b><u>Arizona</u></b>				<b><u>Maine</u></b>			
Phoenix .....	33	-112	0	Portland .....	43	-70	0
Tucson .....	32	-110	0	<b><u>Minneapolis</u></b>			
<b><u>California</u></b>				Minneapolis .....	44	-93	0
Fresno .....	36	-119	0	<b><u>New Mexico</u></b>			
Los Angeles .....	33	-118	0	Albuquerque .....	35	-106	0
Redding .....	40	-122	0	<b><u>Nevada</u></b>			
Redlands .....	34	-117	0	Las Vegas .....	36	-115	0
Sacramento .....	38	-121	0	Reno .....	39	-119	0
San Diego .....	32	-117	0	<b><u>New York</u></b>			
San Francisco .....	37	-122	0	Albany .....	42	-73	0
Santa Barbara .....	34	-119	0	Buffalo .....	42	-78	0
<b><u>Colorado</u></b>				<b><u>Ohio</u></b>			
Denver .....	39	-104	0	Cincinnati .....	39	-84	1
<b><u>District of Columbia</u></b>				Cleveland .....	41	-81	0
Washington .....	38	-77	0	<b><u>Oregon</u></b>			
<b><u>Florida</u></b>				Portland .....	47	-122	0
Miami .....	25	-80	0	<b><u>Pennsylvania</u></b>			
Tallahassee .....	30	-84	1	Philadelphia .....	39	-75	0
Tampa .....	27	-82	0	Pittsburgh .....	40	-80	0
<b><u>Georgia</u></b>				<b><u>Tennessee</u></b>			
Atlanta .....	33	-84	1	Memphis .....	35	-90	0
<b><u>Iowa</u></b>				Nashville .....	36	-86	0
Des Moines .....	41	-93	0	<b><u>Texas</u></b>			
<b><u>Illinois</u></b>				Dallas .....	32	-96	0
Chicago .....	41	-87	0	El Paso, .....	31	-106	0
<b><u>Indiana</u></b>				Houston .....	29	-95	0
Indianapolis .....	39	-86	1	<b><u>Utah</u></b>			
<b><u>Kansas</u></b>				Salt Lake City .....	40	-111	0
Kansas City .....	39	-95	0	<b><u>Virginia</u></b>			
<b><u>Louisiana</u></b>				Norfolk .....	36	-76	0
Shreveport .....	32	-93	0	<b><u>West Virginia</u></b>			
<b><u>Massachusetts</u></b>				Charleston .....	38	-81	0
Boston .....	42	-71	0				

**CANADA**

<u>CITY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>Lc</u>
Vancouver .....	49	-123	0
Calgary .....	51	-114	1
Regina .....	50	-104	1
Winnipeg .....	49	-97	0
Montreal .....	45	-73	0
Quebec .....	45	-73	0
Dartmouth N.S. ....	44	-63	0
Toronto .....	43	-79	0



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