

# INTERMATIC®

Model SS3B Digital Security Timer with dimmer for incandescent lights controlled from one or more wall switch locations. Note special wiring is required for three or more switch applications.

## IMPORTANT NOTES BEFORE USING

This timer is designed to operate standard incandescent light bulbs ONLY. It requires a minimum lamp load totalling 40 watts. NOTE: There is no hazard in attempting to use your timer to control lamps less than 40 watts. The timer may not be able to keep the light turned on if less than 40 watts. This timer can handle a maximum combination totalling 500 watts or 400 watts maximum if mounted in the same wall box with another similar timer/dimmer.

It is NOT TO BE USED to operate fluorescent lights, high intensity discharge lamps (mercury vapor, high or low pressure sodium, etc.), appliances, radios, T.V.'s, stereos, etc. Using the timer to control such loads could cause damage to the controlled device.

Separate dimmers and photoelectric switches cannot be used on the same circuit with this timer.

The timer generates radio frequency energy and may in rare cases cause some radio or television interference. Possible solutions include readjusting the receiver's antenna, plugging the receiver into a different outlet or moving the receiver itself.

## INSTALLATION SS3B

Your timer replaces a standard wall switch, using the same wires that are connected to your existing wall switch. Your timer will not replace dead-end type switches. You will use your existing wall (switch) plate regardless of whether it covers only the switch you are replacing or more than one switch. In an installation where there is more than one switch mounted behind your switch plate your other wall switch(es) need not be altered in any way.

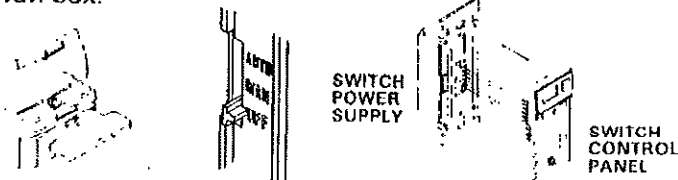
In applications where MORE THAN ONE SWITCH controls the light, refer to the special instructions for multiple switch applications to follow. This timer DOES NOT OPERATE AS AN ORDINARY THREE WAY SWITCH DOES.

### INSTALLATION FOR SINGLE SWITCH APPLICATIONS.

(Jumper wire not required). Refer to the special instructions below for MULTISWITCH APPLICATIONS.

Be sure the lamp(s) being controlled by your wall switch is working. TURN OFF POWER by REMOVING FUSE or turning the CIRCUIT BREAKER OFF.

Remove the switch plate and the existing wall switch. Remove the wires from the wall switch. If the old wall switch has a ground wire (normally connected to green hex head screw) fasten the wire securely to metal wall box or to timer metal bracket. Pull the remaining wires out of the wall box.

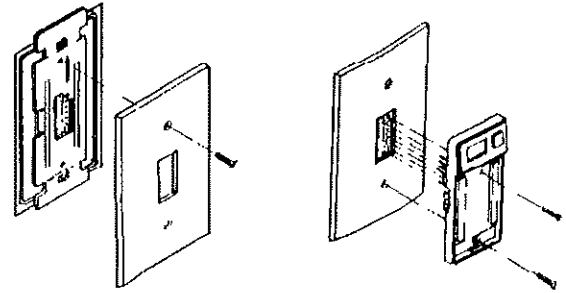


Remove the control button from the timer by pushing a screwdriver into the slot at the bottom of the control panel. GENTLY pry the control button off; set it aside.

Move the slide switch lever on the switch control panel to

- Featuring:
- Automatic or manual operation
  - Up to 8 daily automatic operations
  - Automatically varies switching times for a "lived-in" look
  - Quartz LCD clock
  - And more, to provide the best in lighting control while you're home or away.

7. Mount your switch plate, using the TOP hole only, with one of the large screws provided. DO NOT use the BOTTOM switch plate hole at this time.

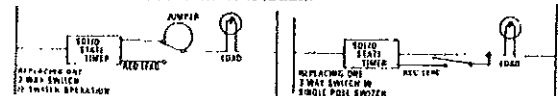


8. Be sure the slide switch lever on the switch power supply is in the lowest (OFF) position. This will show thru the switch plate toggle hole. Be sure the slide switch on the switch control panel is also in the OFF position, then line up the multipin connector and gently slide the switch control panel straight onto the switch power supply. Secure the switch control panel to the switch power supply by screwing the thin screw into the upper hole of the switch control panel and the large screw into the lower hole. DO NOT OVERTIGHTEN or the slide switch will not move easily.
9. Install control button by first inserting the top hinges into the control panel and then firmly snapping in the bottom edge. If the control button won't fit, try loosening the bottom screw.
- 10 Your timer is now ready for use. Return the power to your timer at the service panel, then refer to the detailed OPERATING INSTRUCTIONS.

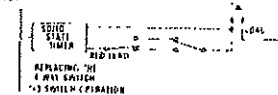
## INSTALLATION FOR MULTISWITCH APPLICATIONS

(See wiring diagrams and NOTE for 3 or more switch operation.)

NOTE For new construction or to replace either a dimmer switch or a 3 way switch without screw terminals, a single pole switch can be used at the remote location.

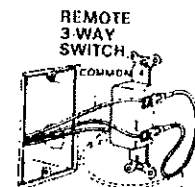


NOTE For 3 or more switch operation an ADDITIONAL WIRE MUST BE ADDED between the load and the timer. the JUMPER WIRE is NOT REQUIRED for these applications.



NOTE For switching from 4 or more locations 4 way switches may be wired between the (2) 3 way switches

1. TURN OFF POWER by REMOVING FUSE or turning the CIRCUIT BREAKER OFF.
2. Select the switch you wish to replace with the timer, then follow steps #1 thru #4 for single switch installation.



MOVE JUMPER WIRE TO OTHER TERMINAL IF THIS SWITCH DOES NOT TURN LIGHT ON

trolled device.

Separate dimmers and photoelectric switches cannot be used in the same circuit with this timer.

The timer generates radio frequency energy and may in rare cases cause some radio or television interference. Possible solutions include readjusting the receiver's antenna, plugging the receiver into a different outlet or moving the receiver itself.

### INSTALLATION SS3B

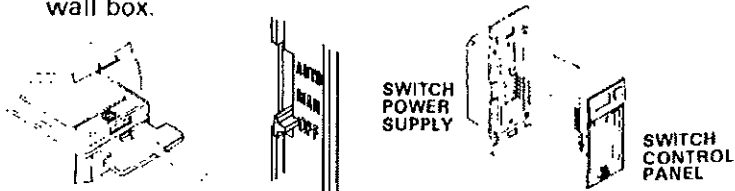
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For applications where MORE THAN ONE SWITCH controls the light, refer to the special instructions for multiple switch applications to follow. This timer DOES NOT OPERATE AS AN ORDINARY THREE WAY SWITCH DOES.

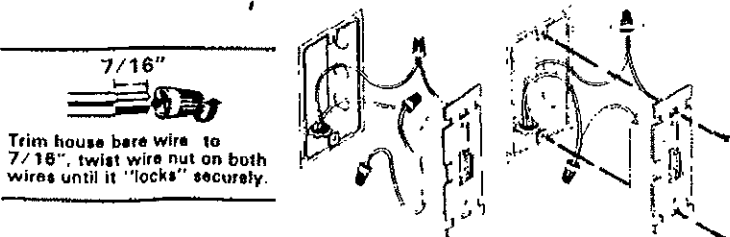
#### INSTALLATION FOR SINGLE SWITCH APPLICATIONS.

(Jumper wire not required). Refer to the special instructions below for MULTISWITCH APPLICATIONS.

1. Be sure the lamp(s) being controlled by your wall switch is working. TURN OFF POWER by REMOVING FUSE or turning the CIRCUIT BREAKER OFF.
2. Remove the switch plate and the existing wall switch. Remove the wires from the wall switch. If the old wall switch has a ground wire (normally connected to green hex head screw) fasten the wire securely to metal wall box or to timer metal bracket. Pull the remaining wires out of the wall box.



3. Remove the control button from the timer by pushing a screwdriver into the slot at the bottom of the control panel. GENTLY pry the control button off, set it aside.
4. Move the slide switch lever on the switch control panel to OFF, then gently pull the switch control panel and the switch power supply apart. DO NOT touch the multipin connector. Place the switch control panel face down so you won't damage the multipin connector.



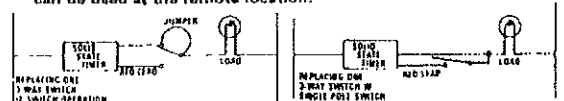
5. Connect the (2) wires to the black and blue wires on your timer using the wire nuts provided. Either timer wire can be connected to either wire in the wall box. THE RED WIRE IS NOT USED for single wall switch applications. If the red wire is not capped with a wire nut you should do so, using one of the wire nuts provided. BE SURE THE WIRE NUTS ARE SECURE.
6. With the arrow on the front of the switch power supply pointing up, mount switch power supply to the wall box using two of the larger screws provided.

8. Be sure the slide switch lever on the switch power supply is in the lowest (OFF) position. This will show thru the switch plate toggle hole. Be sure the slide switch on the switch control panel is also in the OFF position, then line up the multipin connector and gently slide the switch control panel straight onto the switch power supply. Secure the switch control panel to the switch power supply by screwing the thin screw into the upper hole of the switch control panel and the large screw into the lower hole. DO NOT OVERTIGHTEN or the slide switch will not move easily.
9. Install control button by first inserting the top hinges into the control panel and then firmly snapping in the bottom edge. If the control button won't fit, try loosening the bottom screw.
10. Your timer is now ready for use. Return the power to your timer at the service panel, then refer to the detailed OPERATING INSTRUCTIONS.

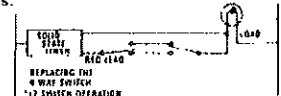
### INSTALLATION FOR MULTISWITCH APPLICATIONS

(See wiring diagrams and NOTE for 3 or more switch operation)

NOTE: For new construction or to replace either a dimmer switch or a 3 way switch without screw terminals, a single pole switch can be used at the remote location.

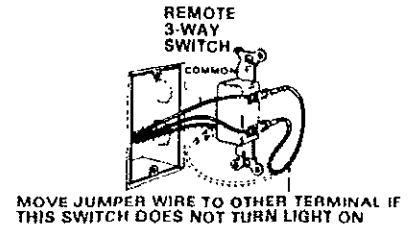


NOTE: For 3 or more switch operation an ADDITIONAL WIRE MUST BE ADDED between the load and the timer. the JUMPER WIRE is NOT REQUIRED for these applications.



NOTE: For switching from 4 or more locations 4 way switches may be wired between the (2) 3-way switches

1. TURN OFF POWER by REMOVING FUSE or turning the CIRCUIT BREAKER OFF.
2. Select the switch you wish to replace with the timer, then follow steps #1 thru #4 for single switch installation.

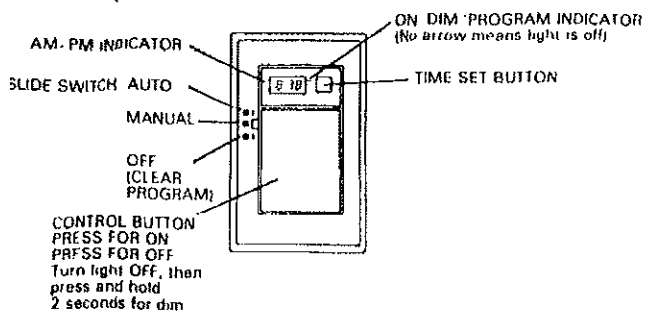


3. For two switch control, the jumper wire must be installed one of the existing mechanical switches. This will be covered later under INSTALL JUMPER WIRE. Identify and remove wire (usually black) attached to "common" terminal of old switch. This terminal normally has a different colored screw or may be identified by markings on the wire itself. Connect to the black lead of the timer. Remove the other two wires and connect them to the red and blue timer wires, it does not matter which. Use wire nuts provided for these connections. BE SURE THE WIRE NUTS ARE SECURE.
4. Follow steps #6 thru #9 for single switch installation.
5. INSTALL JUMPER WIRE for TWO SWITCH application ONLY.

#### BE CERTAIN POWER IS OFF

- **Screw-type terminal switches:** Remove switch plate and screws from second 3-way switch, pull switch from wall box. Identify "common" terminal and loosen screw just enough to install one end of the jumper under the screw head. Retighten screw. Loosen screw at either of the two other terminals and install other end of jumper wire. Retighten screw.
- Reinstall switch and turn power back on. Turn timer on by moving the slide lever to MAN position. The display should

... and the light should turn on. Try operating right  
 second (remote 3-way) switch. If light does not oper-  
 TURN POWER OFF at fuse or circuit breaker and re-  
 the remote 3-way switch. Rewire the jumper to go  
 the "common" terminal to the other terminal. Rein-  
 switch and turn power back on. Both the remote  
 ch and the timer should now be able to control the light.  
**mer, illuminated or back wire pressure terminal**  
**ches:** Replace with a single pole non-dimmer switch.  
 ify "common" wire; attach it together with one of the  
 r wires, under either screw terminal. Remaining wire  
 ld be attached under the other screw terminal.  
 power back on. Move slide lever to MAN position.  
 ate remote (3-way) switch, light should turn on and off  
 this switch. If not, TURN POWER OFF and move  
 mon" wire and reconnect under the other terminal,  
 her with the single wire already in place. Turn power  
 on and repeat test procedures. NOTE: If you have to  
 at the test procedure more than one time, you have the  
 mon" wire in the wrong position.  
 timer is now ready for use. Return power to your timer  
 a service panel then refer to OPERATING INSTRUCTIONS.



**PROGRAMMING SS3B**

...am your timer, first set current time of day. Next you  
 the program times - the times you want your light(s) to  
 on and off automatically.

**SET TIME OF DAY**

... the slide switch in MAN (manual) position. The dis-  
 shows PF (power failure). DO NOT move the slide  
 ch to the OFF position in any of the steps to follow  
**PLEASE YOU WILL LOSE YOUR PROGRAM.**  
 and hold the time set button. After a delay of approxi-  
 mately 2 seconds the time display will begin to advance.  
 display will advance, starting at 12:00 PM, in 1 minute  
 ments. Soon the display will speed up and advance by  
 inute increments. You can return to the slow advance  
 by releasing the time set button momentarily, then  
 sing it again. You can advance the display in one min-  
 utes intervals by repeatedly pressing and releasing the but-  
 ton a shorter time.  
 If you cannot move the numbers backwards, you will  
 stop before you go past the current time of day.  
 Are the AM/PM indicator agrees with the time of day  
 are setting. If not, hold the time set button and advance  
 clock 12 hours.  
 Time of day is now set. Note that the same procedures  
 eps #1 thru #3 can be followed for resetting the time of  
 at any time, such as daylight saving time.

**SET PROGRAM TIMES**

... as a note of the times you want the timer to switch your  
 s on and off. The times must be on the half hour:  
 PM, 12:30 AM, 6:00 AM, etc.  
 the slide switch up to the AUTO (automatic) position.  
 ss and hold the time set button. After a delay of ap-  
 proximately two seconds, the time will begin to advance,  
 ing at 12:00 PM, in 30 minute increments. If you over-  
 ting, you will have to advance the clock 24 hours. You can  
 s and release the time set button as often as desired to  
 at your times.

to turn the light(s) off. The program indicator must be point-  
 ing to ON, DIM or not be visible for you to program an on, on  
 dim or off operation respectively. If the program indicator  
 does not agree with the operation you desire, press the  
 control button until it does. Once the PROGRAM INDI-  
 CATOR agrees with the operation you desire go to the next  
 step.

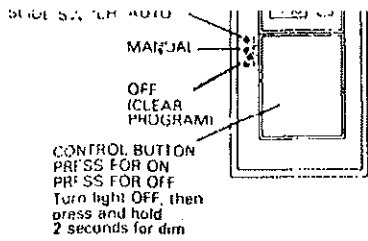
6. Press the time set button again to select the next time for  
 an automatic switching operation. Set the on, on dim or off  
 function by following the procedure in step #5.  
 You can repeat this for a maximum of 8 settings, which will  
 repeat every 24 hours. If you attempt to program a 9th op-  
 eration, "EEE" will appear in the display. Your first 8 set-  
 tings will not be affected.
7. In approximately 30 seconds the "PRG" indicator will  
 disappear and the time of day will reappear in the display:  
 your timer is now programmed and in the AUTO mode. If  
 you wish to switch temporarily to MAN (manual) mode  
 without disturbing the stored program, move the slide  
 switch from AUTO to MAN. Switching from AUTO to MAN  
 or vice versa will not disturb the program.  
 When moving the slide switch to MAN be careful not to  
 move switch to OFF because your program will be lost.

**REVIEW PROGRAM TIMES**

1. Be sure slide switch is in AUTO position. Press and hold  
 Time Set Button. After a delay of approximately two seconds  
 the display will show 12:00 PM and will advance to the first  
 programmed time. The ON/DIM indicator will point to ON,  
 DIM or will not be visible, indicating the programmed op-  
 eration (On, ON-Dim or Off respectively) for the displayed  
 time.  
 You will notice that the PRG indicator will always be on  
 during review.
2. Release the Time Set Button momentarily, then press and  
 hold it again. The display will advance to the next pro-  
 grammed time.
3. You can remove all programmed set points by moving the  
 slide switch to OFF. You must then return to SET CLOCK  
 before reprogramming.

**TROUBLESHOOTING GUIDE**

| SYMPTOM                                                              | SOLUTION:                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Timer cannot be programmed.                                       | a) Was timer programmed according to instructions?<br>b) Is slide switch in (MAN) position? Must be in AUTO to program.<br>c) Was present time of day entered before programming desired ON and OFF times?<br>d) Is time set button being depressed fully?<br>e) Is PRG showing during programming? |
| 2. Timer does not turn lights on or off automatically, as programmed | a) Was timer programmed according to instructions?<br>b) Is timer in AUTO mode?<br>c) Be sure light bulbs are firmly in their sockets and are not burned out.<br>d) Check wiring for loose connections.                                                                                             |
| 3. Timer does not turn light(s) on or off using control button.      | a) See solution no. 2c and 2d.<br>b) Check fuse or circuit breaker.                                                                                                                                                                                                                                 |
| 4. Timer is warm to the touch.                                       | Some warmth is normal. Be sure light bulb wattage does not exceed ratings.                                                                                                                                                                                                                          |
| 5. Controlled light flickers or goes to half brightness              | Recheck wiring diagrams and instructions                                                                                                                                                                                                                                                            |
| 6. The display shows "PF".                                           | Power failure has occurred, reprogram timer                                                                                                                                                                                                                                                         |
| 7. Display shows 18.88                                               | Disconnect power to the circuit for 5 minutes, then reapply power. Be sure control panel                                                                                                                                                                                                            |



### PROGRAMMING SS3B

Program your timer, first set current time of day. Next you set the program times - the times you want your light(s) to ch on and off automatically.

#### SET TIME OF DAY

Place the slide switch in MAN (manual) position. The display shows PF (power failure). DO NOT move the slide switch to the OFF position in any of the steps to follow BECAUSE YOU WILL LOSE YOUR PROGRAM.

Push and hold the time set button. After a delay of approximately 2 seconds the time display will begin to advance. The display will advance, starting at 12:00 PM, in 1 minute increments. Soon the display will speed up and advance by 10 minute increments. You can return to the slow advance rate by releasing the time set button momentarily, then pressing it again. You can advance the display in one minute intervals by repeatedly pressing and releasing the button for a shorter time.

Since you cannot move the numbers backwards, you will want to stop before you go past the current time of day. Be sure the AM/PM indicator agrees with the time of day you are setting. If not, hold the time set button and advance the clock 12 hours.

The time of day is now set. Note that the same procedures in steps #1 thru #3 can be followed for resetting the time of day at any time, such as daylight saving time.

#### SET PROGRAM TIMES

Make a note of the times you want the timer to switch your lights on and off. The times must be on the half hour: 3:00 PM, 12:30 AM, 6:00 AM, etc.

Move the slide switch up to the AUTO (automatic) position. Press and hold the time set button. After a delay of approximately two seconds, the time will begin to advance, starting at 12:00 PM, in 30 minute increments. If you overshoot, you will have to advance the clock 24 hours. You can press and release the time set button as often as desired to select your times.

**NOTE:** The PRG (programming) arrow should be on. The program arrow will remain on for approximately 30 seconds after your last operation. BE SURE THE PRG ARROW IS ON whenever you are programming. If it is not on you will have to press and hold the time set button to get back to the program mode. The program mode always starts at 12:00 PM. Any set points entered while the PRG arrow is on will remain in the timer memory.

Select the first switching time. BE SURE the AM/PM arrow is correct. In the next steps you will tell the timer what to do at the time you select.

Now use the control button to select an ON, ON-DIM or OFF operation for the time selected.

Two operations are required:

- Press the control button once to signal the timer that you are about to set a program time.
- Then press the control button again to select an on, on dim or off operation if necessary. After signalling the timer you may not need to press the control pushbutton a second time. You can continue to press the control button as many times as you desire when selecting the timer operation; this will not disturb the program.

Observe the ON/DIM PROGRAM INDICATOR. If there is no arrow visible it means the program operation would be

1. Be sure slide switch is in AUTO position. Press and hold Time Set Button. After a delay of approximately two seconds the display will show 12:00 PM and will advance to the first programmed time. The ON/DIM indicator will point to ON, DIM or will not be visible, indicating the programmed operation (On, ON-Dim or Off respectively) for the displayed time.

You will notice that the PRG indicator will always be on during review.

2. Release the Time Set Button momentarily, then press and hold it again. The display will advance to the next programmed time.
3. You can remove all programmed set points by moving the slide switch to OFF. You must then return to SET CLOCK before reprogramming.

### TROUBLESHOOTING GUIDE

| SYMPTOM                                                                                          | SOLUTION                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Timer cannot be programmed                                                                    | a) Was timer programmed according to instructions?<br>b) Is slide switch in (MAN) position? Must be in AUTO to program.<br>c) Was present time of day entered before programming desired ON and OFF times?<br>d) Is time set button being depressed fully?<br>e) Is PRG showing during programming? |
| 2. Timer does not turn lights on or off automatically, as programmed                             | a) Was timer programmed according to instructions?<br>b) Is timer in AUTO mode?<br>c) Be sure light bulbs are firmly in their sockets, and are not burned out.<br>d. Check wiring for loose connections.                                                                                            |
| 3. Timer does not turn light(s) on or off using control button.                                  | a) See solution no. 2c and 2d.<br>b) Check fuse or circuit breaker.                                                                                                                                                                                                                                 |
| 4. Timer is warm to the touch.                                                                   | Some warmth is normal. Be sure light bulb wattage does not exceed ratings.                                                                                                                                                                                                                          |
| 5. Controlled light flickers or goes to half brightness                                          | Recheck wiring diagrams and instructions.                                                                                                                                                                                                                                                           |
| 6. The display shows "PF"                                                                        | Power failure has occurred; reprogram timer                                                                                                                                                                                                                                                         |
| 7. Display shows 18:88                                                                           | Disconnect power to the circuit for 5 minutes, then reapply power. Be sure control panel screws have not been overtightened.                                                                                                                                                                        |
| 8. MULTISWITCH INSTALLATIONS—Controlled light cannot be turned on or off from the remote switch. | a) Check for proper jumper installation.<br>b) Make sure slide switch is not in OFF position.<br>c) Is the remote switch the proper type? (Switch with neon indicator cannot be used.)                                                                                                              |

#### FULL 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 free of charge.

The warranty does not apply to: (a) damage caused by accident, abuse, mishandling, dropping; (b) units which have been subject to unauthorized repair, opened, taken apart; (c) units not used in accordance with directions; (d) damages exceeding the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased or (b) mailing postage prepaid to the nearest authorized service station listed below. Be sure to wrap the products securely when mailing to avoid shipping damage. This warranty is made by Intermatic Incorporated, Intermatic Plaza, Spring Grove, Illinois 60081.

**AUTHORIZED SERVICE STATION  
INTERMATIC INCORPORATED**