INTEO CHRONIS RTS TIMER

Installation & Operation Guide

PRELIMINARY

SOMFY®

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SOMFY®

CHRONIS RTS TIMER
Programming and Operating Instructions

DESCRIPTION

SOMFY's new Chronis RTS is a wireless digital timer compatible with all SOMFY RTS 110 VAC, Low Voltage, and Battery Powered Motors as well as RTS Receivers. The Chronis RTS can be programmed to automatically raise and lower window treatments at a predetermined time each day or at different times every day of the week. Or the astronomical (Cosmic) setting may be applied to automatically operate the window treatments in accordance to sunrise and sunset. Additionally, a security mode may be enabled to randomly operate the window treatments, simulating an occupied home while you are away.

Part No. 000000

Radio control range is regulated by federal laws, therefore certain building designs and excessive ambient radio frequency noise may indirectly effect the performance of this product. The quality of radio reception should be determined prior to installing this product.

A. ASSEMBLY

A-1 Installing the Chronis RTS Timer
Step 1.
Remove the battery insulating strip to activate the Chronis RTS Timer
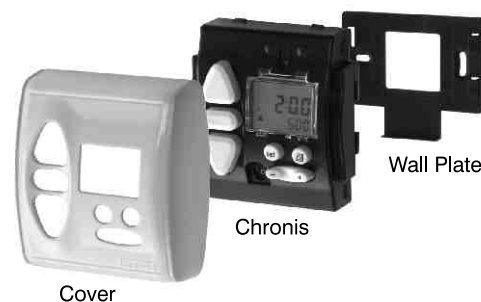**Step 2.**
Attach wall mounting plate to wall surface using (2) screws (included)
Step 3.
Slide the Chronis RTS onto the wall mounting plate from top
Step 4.
Attach cover to Chronis RTS

Wall Plate

Chronis

Cover

The CHRONIS RTS is powered by two standard 1.5V Alkaline (AAA type) batteries. Battery life expectancy is approximately (3 years) based on an average usage of four commands per day. As the battery power decreases, the LCD Display contrast will fade and ultimately become unreadable. It is recommended that the batteries are replaced at this time.

NOTE: Replacing batteries will not affect the AUTOMATIC TIME SETTINGS (pg 3).
       However, current Date and Time must be re-programmed

B. PROGRAMMING (General)

B-1 Assigning the Chronis RTS Timer to an Altus Motor, RTS Receiver, or Multi-Link Controller

Step 1.
Press and release the (-) button on the DISPLAY BUTTON to activate Chronis RTS Timer
Step 2.
Activate programming mode for Altus Motor, RTS Receiver, or Multi-Link Control (Refer to the respective programming instructions for each)
Step 3.
Press and hold the PROGRAMMING BUTTON on the Chronis RTS until the Altus Motor, RTS Receiver, or Multi-Link Control confirms the Chronis RTS has been assigned. (Refer to the respective programming instructions for each)

Note: The LCD display will indicate **"ProG"** when the PROGRAMMING BUTTON is pressed.
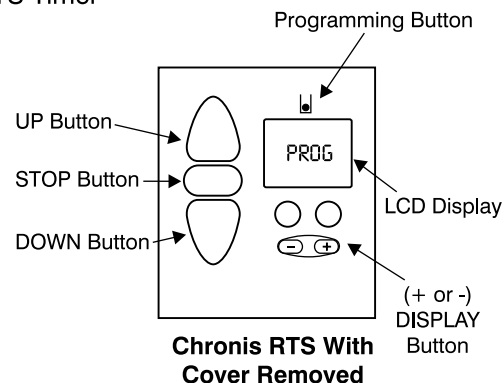
Programming Button

UP Button

STOP Button

DOWN Button

PROG

LCD Display

(+ or -) DISPLAY Button

Chronis RTS With Cover Removed

B. PROGRAMMING (General)

B-2 Setting the CURRENT SEASON

NOTE: Current Season is represented by "S" (SUMMER) and "W" (WINTER) on LCD Display (Systems Default: "W") and MUST BE manually adjusted in accordance to daylight savings time (where applicable)

SETTING SEASON (SUMMER)
- Represented by "S" on LCD Display (System Default: "W")

Step 1.
Press and release the **SET Button**
Step 2.
Press and hold the **UP Button (5 secs.)** until "S" appears on the LCD Display
Step 3.
Press and release the **SET Button** to save

SETTING SEASON (WINTER)
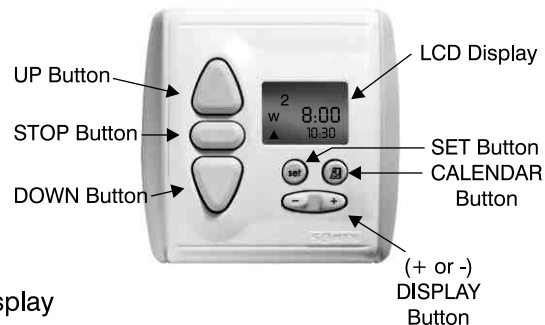- Represented by "W" on LCD Display (System Default: "W")

Step 1.
Press and release the **SET Button**
Step 2.
Press and hold the **DOWN Button (5 secs.)** until "W" appears on the LCD Display
Step 3.
Press and release the **SET Button** to save

LCD Display

UP Button
STOP Button
DOWN Button

SET Button
CALENDAR Button

(+ or -) DISPLAY Button

B-3 Setting the CURRENT TIME

Note: Time setting is represented in "24-Hour" format only.

Step 1.
Press and release the **SET Button** (Current set TIME flashes)
Step 2.
Press the **(+ or -) DISPLAY Button** to reach desired time
Step 3.
Press the **SET Button** to save

NOTE: A manual time adjustment must be performed when observing daylight savings time.
Refer to "SETTING CURRENT SEASON" to change current time in accordance to daylight savings time.

12-Hour to 24-Hour Conversion Chart												
12-Hour	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 PM
24-Hour	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00

B-4 Setting the CURRENT DATE

Step 1.
Press and release the **CALENDAR Button** (Current set DATE is displayed)
Step 2.
Press and release the **SET Button** (Current set DAY flashes)
Step 3.
Press **(+ or -) DISPLAY Button** to reach desired **DAY**
Step 4.
Press and release the **UP Button** (Current set MONTH flashes)
Step 5.
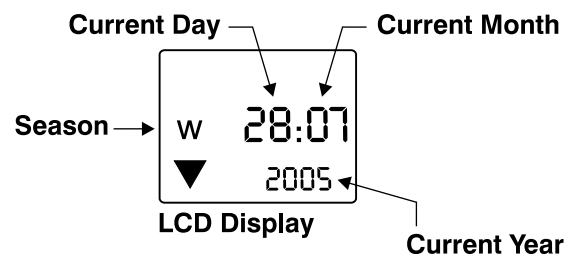Press **(+ or -) DISPLAY Button** to reach desired **MONTH**
Step 6.
Press and release the **UP Button** (Current set YEAR flashes)
Step 7.
Press **(+ or -) DISPLAY Button** to reach desired **YEAR**
Step 8.
Press and release the **SET Button** to save

Current Day — Current Month
Season → W 28:07
▼ 2005
LCD Display   Current Year

C. PROGRAMMING (General)

AUTOMATIC OPEN / UP & CLOSE / DOWN - functions (DEFAULT Programming)
- Default Programming will enable Window Coverings to FULLY RAISE and LOWER to a FULLY CLOSED POSITION **(No-Tilt Control)**
- Each day in a calendar week can be programmed to have the same or different OPEN & CLOSE Commands
- Default operating times: **UP or OPEN at** *6:00*am **Down or Close at** *20:00* **(8:00pm)**
   NOTE: Automatic "Tilt" control CANNOT be achieved with "DEFAULT" programming. Refer to "AUTOMATIC IP PROGRAMMING"

C-1 Setting the OPEN / UP Time
Step 1.
Press and release the **SET Button** (Current TIME flashes)
Step 2.
Press and release the **UP Button** (Current UP COMMAND TIME & COMMAND DIRECTION FLASHES)
Step 3.
Press and release the **CALENDAR Button** to select the desired **DAY or EVERY DAY** of the week (see Figure 1)
Step 4.
Press the **(+ or -) DISPLAY Button** to reach desired **UP COMMAND TIME**
Step 5.
Press and release the **SET Button** to save.

NOTE: If OPEN/UP TIME COMMAND is NOT required, set OPEN/UP COMMAND to OFF (located between hours 23:59 and 0:00)

Days of the Week
1-Monday
2-Tuesday
3-Wednesday
4-Thursday
5-Friday
6-Saturday
7-Sunday

LCD DISPLAY

1234567 — **Current Day**

— **Current Time**

Season → W **8:00**

▼

20:00

Command Direction   **Command Time/Mode**

FIGURE 1.

CHRONIS RTS

UP Button
STOP Button
DOWN Button

LCD Display
SET Button
CALENDAR Button
(+ or -) DISPLAY Button

12-Hour to 24-Hour Conversion Chart											
12-Hour	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 PM
24-Hour	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00

C-1 Setting the CLOSE / DOWN Times
Step 1.
Press and release the **SET Button** (Current set TIME flashes)
Step 2.
Press and release the **DOWN Button** (Current DOWN COMMAND TIME & COMMAND DIRECTION FLASHES)
Step 3.
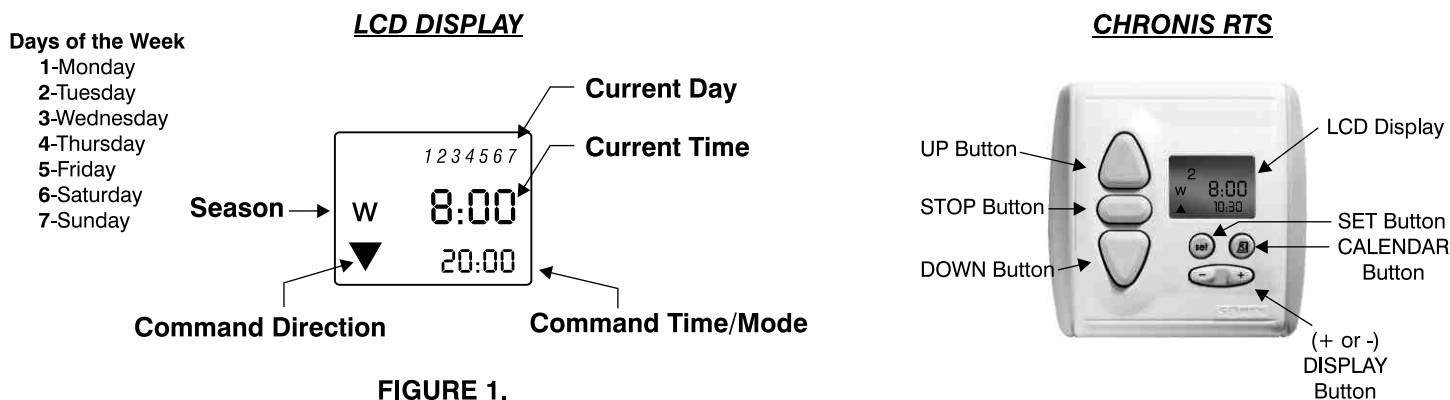Press and release the **CALENDAR Button** to select the desired **DAY or EVERY DAY** of the week (see Figure 1)
Step 4.
Press the **(+ or -) DISPLAY Button** to reach desired **DOWN COMMAND TIME**
Step 5.
Press and release the **SET Button** to save.

NOTE: If CLOSE/DOWN TIME COMMAND is NOT required, set CLOSE/DOWN COMMAND to OFF
         (located between hours 23:59 and 0:00)

D. PROGRAMMING

D-1 AUTOMATIC OPEN/UP & CLOSE/DOWN functions using "IP" (INTERMEDIATE POSITION)

- Programming will enable Window Coverings to FULLY RAISE and LOWER to and IP INTERMEDIATE POSITION (Fig. 1)
- Programming will activate an "IP" (INTERMEDIATE POSITION) in CLOSE/DOWN COMMAND ONLY.
- Each day in a calendar week can be programmed to have the same or different **OPEN & CLOSE Commands.**
  Refer to PROGRAMMING (OPEN/CLOSE TIMES page 3) to adjust time schedules.

NOTE: Window Coverings operated by ALTUS Motors or RTS Controls MUST BE programmed with an IP (INTERMEDIATE POSITION).
PLEASE REFER TO RTS MOTOR/CONTROL INSTRUCTIONS FOR SETTING INTERMEDIATE POSITION.

Full Open/Up

Close/Lower to
IP (Intermediate Position)

Figure 1.

D-2 AUTOMATIC OPEN/UP & CLOSE functions for SHEER HORIZONTAL SHADES

- Programming will enable Sheer Horizontal Shades to FULLY RAISE and LOWER then REVERSE to a
  FULLY CLOSED POSITION (Fig. 2)

- Each day in a calendar week can be programmed to have the same or different OPEN & CLOSE Commands.
  Refer to PROGRAMMING (OPENING/CLOSE TIME Page 3) to adjust time schedules.

NOTE: RTS-25DC Control MUST BE USED and programmed with BOTH INTERMEDIATE POSITIONS
(i.e., IP #1 & Automatic Slat Tilting IP) Commands.
PLEASE REFER TO RTS-25DC CONTROL INSTRUCTIONS FOR SETTING INTERMEDIATE POSITIONS.

Full Open/Up

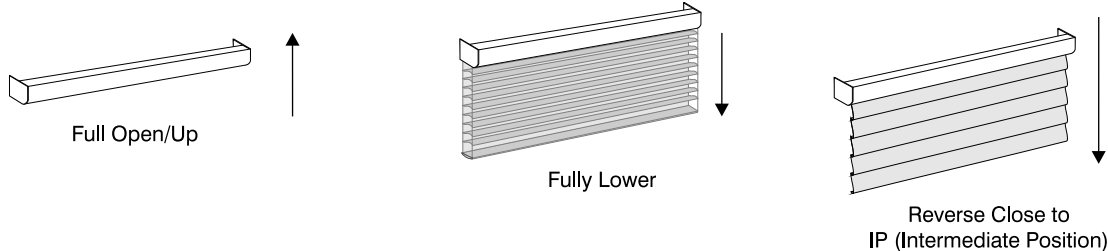Fully Lower

Reverse Close to
IP (Intermediate Position)

Figure 2.

D-3 AUTOMATIC OPEN/UP & (CLOSE/DOWN with TILT) functions for HORIZONTAL BLINDS

- Programming will enable Horizontal Blinds to FULLY RAISE and LOWER to a FULLY CLOSED POSITION (Fig. 3)
- Each day in a calendar week can be programmed to have the same or different **OPEN & CLOSE Commands.**
  Refer to PROGRAMMING (OPENING/CLOSE TIMES Page 3) to adjust time schedules.

NOTE: RTS-25DC Control MUST BE USED and programmed with BOTH INTERMEDIATE POSITIONS
(i.e., IP #1 & Automatic Slat Tilting IP) Commands.
PLEASE REFER TO RTS-25DC CONTROL INSTRUCTIONS FOR SETTING INTERMEDIATE POSITIONS.

SOMFY MULTI-LINK CONTROLLER <u>CANNOT</u> BE USED WITH THIS FUNCTION.
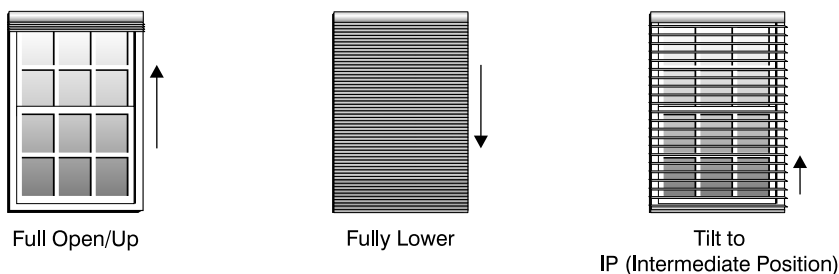**PLEASE REFER TO "DEFAULT PROGRAMMING" (Page 3) or "IP Programming" (Page 4 - #1)**

Full Open/Up

Fully Lower

Tilt to
IP (Intermediate Position)

Figure 3.

THE FOLLOWING STEPS (1-5) MUST BE PERFORMED WITHIN 10 SECONDS OF EACH STEP. CHRONIS RTS WILL DEFAULT TO NORMAL OPERATING DISPLAY SHOULD 10 BE EXCEEDED AND PROGRAMMING FROM STEP 1 WILL BE REQUIRED.

Step 1.
Press and **HOLD** the **UP, DOWN, & CALENDAR Buttons Simultaneously** ("diaG" will appear on LCD Display)
Step 2.
Press and release the **UP Button** ("LCd" will appear on LCD Display)
Step 3.
Press and release the **UP Button** ("1234567" "Lt" "Int" appears on LCD Display)
Step 4.
Press and release the **UP Button.** Then **Momentarily** press the **CALENDAR Button** until ("rISP" appears on LCD Display)
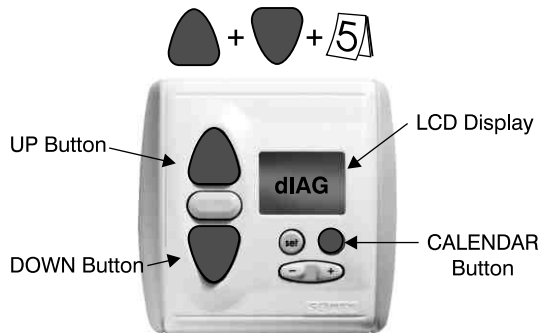**Step 5.**
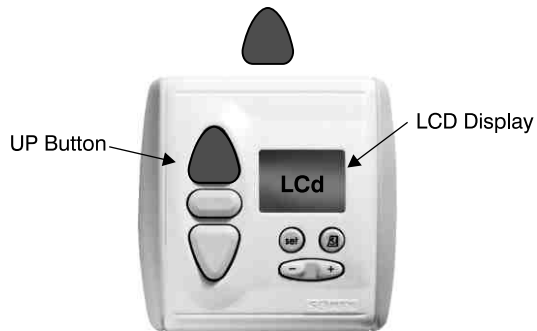Press the **(+) DISPLAY Button** Momentarily until ("IIII" appears on LCD Display)
Step 6.
Press and release the **SET Button** to save (Current time, Command direction/time, and Current day appear on LCD Display)
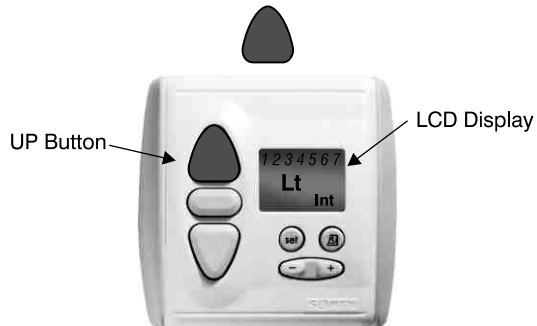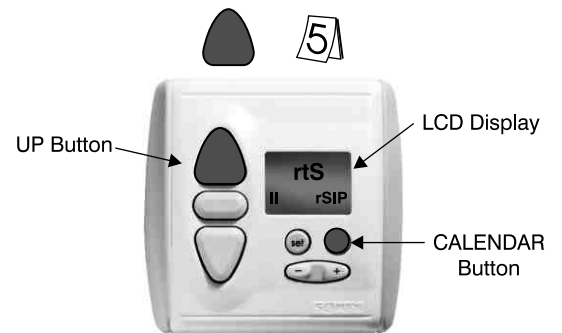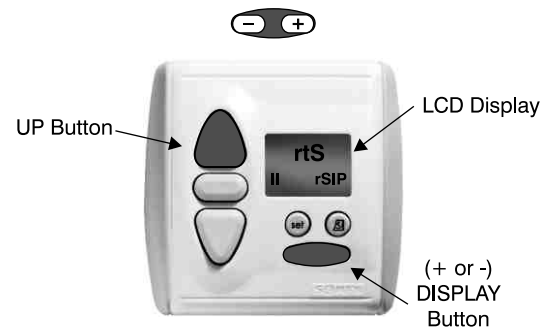
Programming Steps

Step 1.

Step 2.

Step 3.

Step 4.

Step 5.

Step 6.

E. Programming Options for (BATTERY OPERATED RTS CONTROLS ONLY)

E-1 **AUTOMATIC OPEN/UP & CLOSE/DOWN functions for ROLLER, SOLAR, & ROMAN SHADES**
- Programming will enable Window Coverings to FULLY RAISE and LOWER to a FULLY CLOSED POSITION (No Tilt Control)
- Each day in a calendar week can be programmed to have the same or different **OPEN & CLOSE Commands.**
  Refer to PROGRAMMING (OPEN/CLOSE TIMES page 3) to adjust time schedules.

Full Open/Up   Full Close/Down Position

Figure 5.

Full Open/Up   Full Close/Down Position

E-2 **AUTOMATIC TILT OPEN & TILT CLOSE functions for 2 INCH HORIZONTAL BLINDS**

- Programming will enable 2 Inch Horizontal Blinds to TILT OPEN and TILT to a FULLY CLOSED POSITION
- Each day in a calendar week can be programmed to have the same or different **OPEN & CLOSE Commands.**
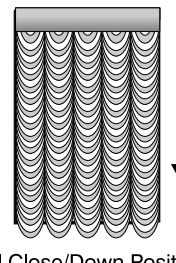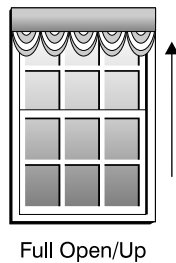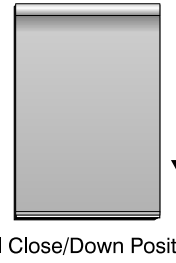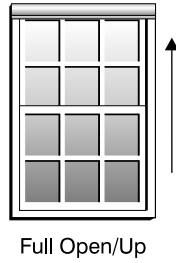 **Refer to PROGRAMMING (OPENING/CLOSE TIMES Page 3) to adjust time schedules.**

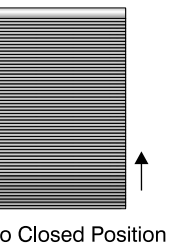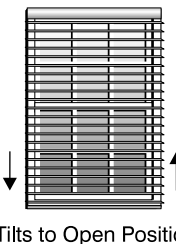**NOTE: BATTERY POWERED TILT MOTOR (HB2-15 OR HB2-30) REQUIRES LIMIT ADJUSTMENT TO ACHIEVE AN OPEN POSITION**

Tilts to Open Position   Tilts to Closed Position

Figure 4.

THE FOLLOWING STEPS (1-5) MUST BE PERFORMED WITHIN 10 SECONDS OF EACH STEP. CHRONIS RTS WILL DEFAULT TO NORMAL OPERATING DISPLAY SHOULD 10 BE EXCEEDED AND PROGRAMMING FROM STEP 1 WILL BE REQUIRED.

Step 1.
Press and **HOLD** the **UP, DOWN, & CALENDAR Buttons Simultaneously** ("diaG" will appear on LCD Display)
Step 2.
Press and release the **UP Button** ("LCd" will appear on LCD Display)
Step 3.
Press and release the **UP Button** ("1234567" "Lt" "Int" appears on LCD Display)
Step 4.
Press and release the **UP Button.** Then **Momentarily** press the **CALENDAR Button** until ("ubEU" appears on LCD Display)
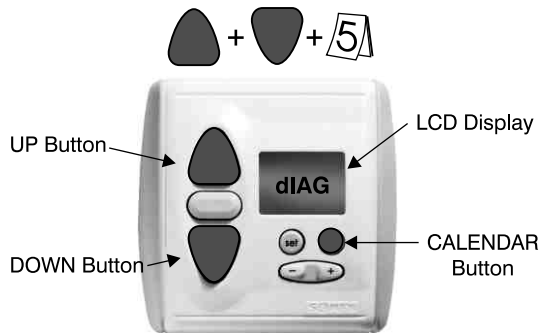**Step 5.**
Press the **(+) DISPLAY Button** Momentarily until ("IIII" appears on LCD Display)
Step 6.
Press and release the **SET Button** to save (Current time, Command direction/time, and Current day appear on LCD Display)

Programming Steps

Step 1.

UP Button
LCD Display
dIAG
DOWN Button
CALENDAR Button

Step 4.

UP Button
LCD Display
rtS
II ubEU
CALENDAR Button

Step 2.

UP Button
LCD Display
LCd

Step 5.

UP Button
LCD Display
rtS
II ubEU
(+ or -) DISPLAY Button

Step 3.

UP Button
LCD Display
1234567
Lt
Int

Step 6.

Set
LCD Display
2
w 8:00
10:30
SET Button

E. Programming Options for (BATTERY OPERATED RTS CONTROLS ONLY)

E-4   AUTOMATIC OPEN/UP & CLOSE/DOWN functions for ROLLER, SOLAR, & ROMAN SHADES
- Programming will enable Window Coverings to FULLY RAISE and LOWER to a FULLY CLOSED POSITION (No Tilt Control)
- Each day in a calendar week can be programmed to have the same or different **OPEN & CLOSE Commands.**
  Refer to PROGRAMMING (OPEN/CLOSE TIMES page 3) to adjust time schedules.

Figure 2.

Tilt Open

Tilt Closed

Programming Steps

THE FOLLOWING STEPS (1-5) MUST BE PERFORMED WITHIN 10 SECONDS OF EACH STEP. CHRONIS RTS WILL DEFAULT TO
NORMAL OPERATING DISPLAY SHOULD 10 BE EXCEEDED AND PROGRAMMING FROM STEP 1 WILL BE REQUIRED.

Step 1.
Press and **HOLD** the **UP, DOWN, & CALENDAR Buttons Simultaneously** ("diaG" will appear on LCD Display)
Step 2.
Press and release the **UP Button** ("LCd" will appear on LCD Display)
Step 3.
Press and release the **UP Button** ("1234567" "Lt" "Int" appears on LCD Display)
Step 4.
Press and release the **UP Button.** Then **Momentarily** press the **CALENDAR Button** until ("ubus" appears on LCD Display)
Step 5.
Press the **(+) DISPLAY Button** Momentarily until ("IIII" appears on LCD Display)
Step 6.
Press and release the **SET Button** to save (Current time, Command direction/time, and Current day appear on LCD Display)
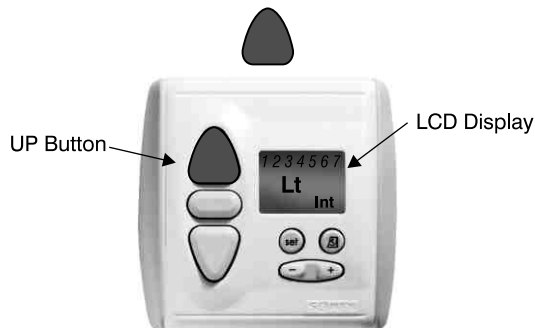
Step 1.

UP Button

LCD Display
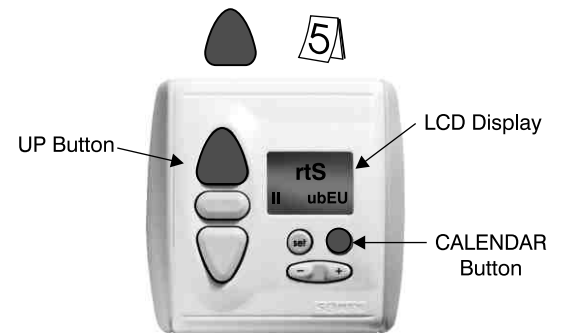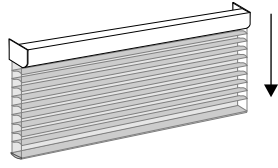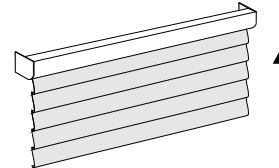
dIAG

DOWN Button

CALENDAR Button

Step 2.

UP Button

LCD Display

LCd

Step 3.

UP Button

LCD Display

1 2 3 4 5 6 7
Lt
Int

Step 4.

UP Button

LCD Display

rtS
II   ubus

CALENDAR Button

Step 5.

UP Button

LCD Display

rtS
II   ubus

(+ or -) DISPLAY Button

Step 6.

Set

LCD Display

2
w   8:00
▲   10:30
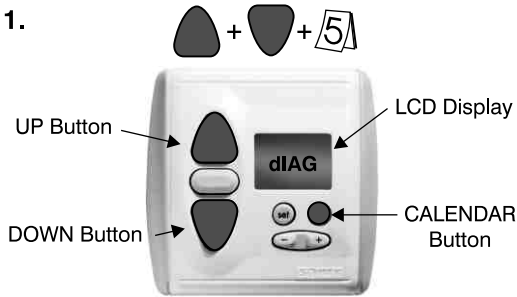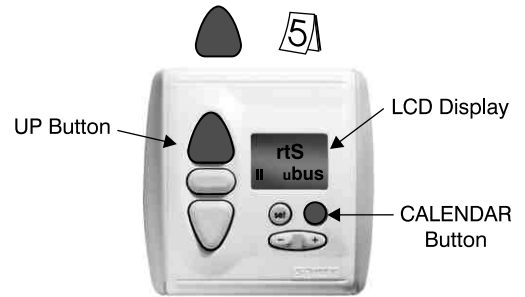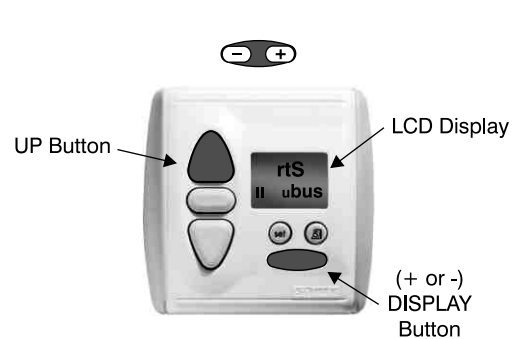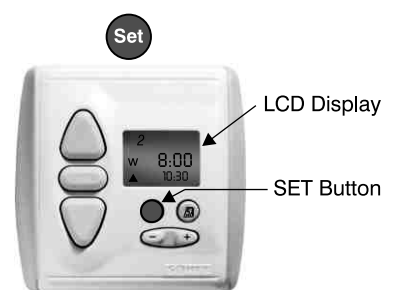
SET Button

AUTOMATIC OPEN & CLOSE functions for Sheer Horizontal Shades Only

Setting the CLOSE Times
Step 1.
Press and release the **SET Button** (Current TIME flashes)
Step 2.
Press and release the **UP Button** (COMMAND TIME & ▲ COMMAND DIRECTION FLASHES)
Step 3.
Press and release the **CALENDAR Button** to select the desired **DAY or EVERY DAY** of the week (see Figure 1)
Step 4.
Press the **(+ or -) DISPLAY Button** to reach desired **CLOSE COMMAND TIME**
Step 5.
Press and release the **SET Button** to save.

NOTE: If OPEN/UP TIME COMMAND is NOT required, set OPEN/UP COMMAND to OFF (located between hours 23:59 and 0:00)

FIGURE 1.

Days of the Week
1-Monday
2-Tuesday
3-Wednesday
4-Thursday
5-Friday
6-Saturday
7-Sunday

12-Hour to 24-Hour Conversion Chart												
12-Hour	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 PM
24-Hour	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00

E-6 **Setting the OPEN Times**
Step 1.
Press and release the **SET Button** (Current set TIME flashes)
Step 2.
Press and release the **DOWN Button** (COMMAND TIME & ▲ COMMAND DIRECTION FLASHES)
Step 3.
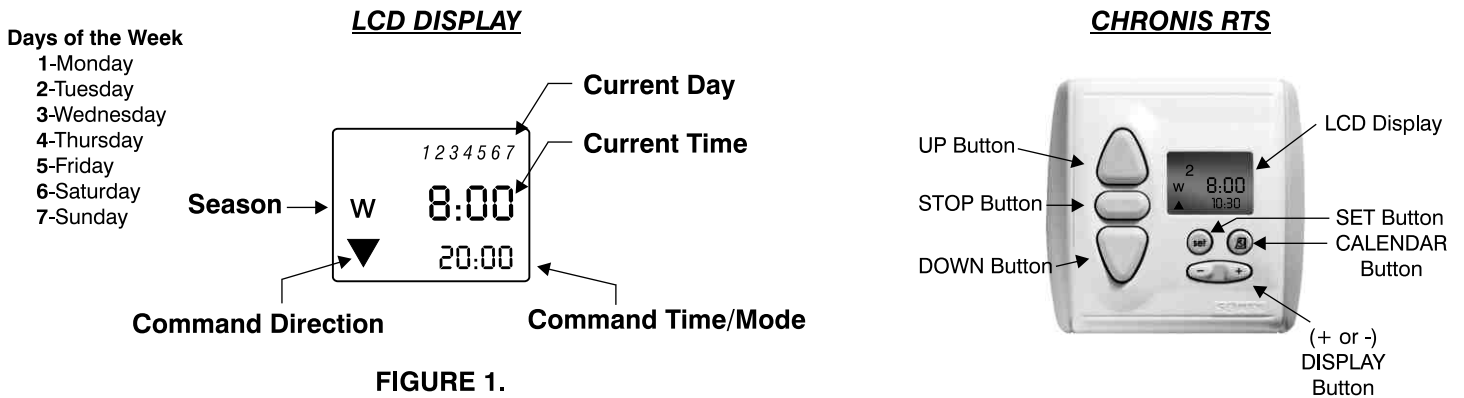Press and release the **CALENDAR Button** to select the desired **DAY or EVERY DAY** of the week (see Figure 1)
Step 4.
Press the **(+ or -) DISPLAY Button** to reach desired **OPEN COMMAND TIME**
Step 5.
Press and release the **SET Button** to save.

NOTE: If OPEN TIME COMMAND is NOT required, set OPEN COMMAND to OFF (located between hours 23:59 and 0:00)

F. Programming Special Automatic Features (ALL RTS MOTORS/CONTROLS)

F-1 VACATION (SECURITY) TIME MODE
- Security (SEC) mode will enable Window Coverings to operate randomly withing +/- 15 Minutes of each pre-programmed UP/Open and CLOSE/Down time settings, providing an occupied appearance.

NOTE: OPEN/CLOSE Time Schedules MUST BE established prior to activating "Security Mode" (SEC)
- Refer to PROGRAMMING OPENING/UP & CLOSE/DOWN TIMES (Page 3 for ALL RTS MOTORS AND CONTROLS)
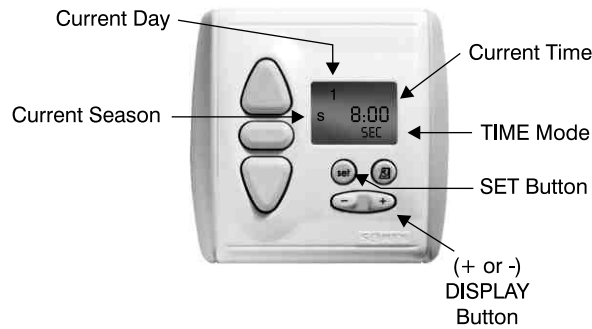
SETTING SECURITY TIME MODE
Step 1.
Press and hold the **SET Button** (approx. 5 seconds) until "SEC" appears on the LCD Display (Fig. 1)

EXIT SECURITY TIME MODE
Step 1.
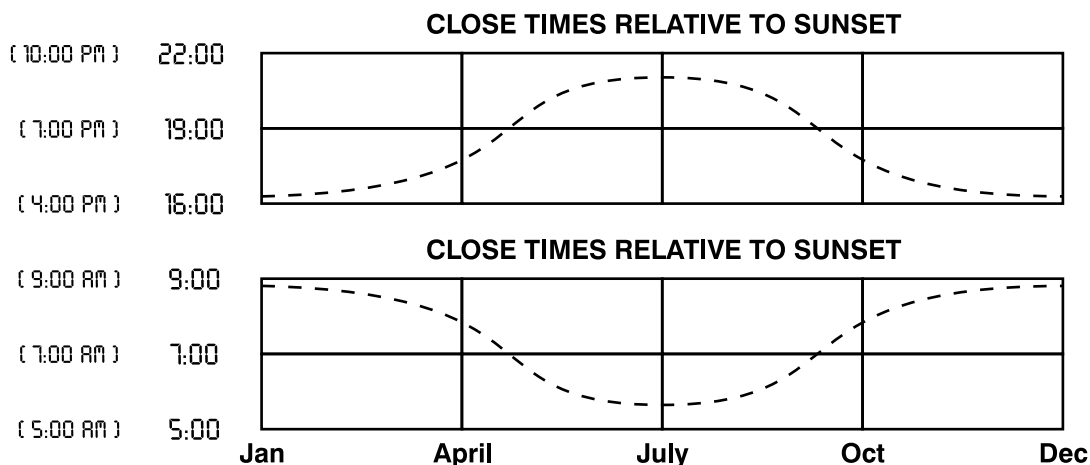Press and hold the **SET Button** until desired time mode appears on the LCD Display

F-2 ASTRONOMICAL (COSMIC 1) TIME MODE
- Cosmic I mode will enable Window Coverings to operate in accordance to sunrise and sunset each day of the week in a calendar year automatically.

  - Differential times relative to sunrise and sunset can be programmed according to individual requirements.
    (See Differential Time Setting Page 11)

  - Cut-off times relative to sunrise and sunset can be programmed according to individual requirements.
    (See Cut-off Time Setting Page 11)

(COSMIC 1) Default Window Covering Operation without Differential or Cut-Off Times

CLOSE TIMES RELATIVE TO SUNSET

(10:00 PM)	22:00
(7:00 PM)	19:00
(4:00 PM)	16:00

CLOSE TIMES RELATIVE TO SUNSET

(9:00 AM)	9:00
(7:00 AM)	7:00
(5:00 AM)	5:00

Jan   April   July   Oct   Dec

F-2 <u>SETTING (COSMIC 1) TIME MODE</u>
- Represented by "COS I" on LCD Display
Step 1.
Press and hold the **SET Button** until "COS I" is displayed, then release

UP Button

LCD Display

STOP Button

SET Button
CALENDAR
Button

DOWN Button

(+ or -)
DISPLAY
Button
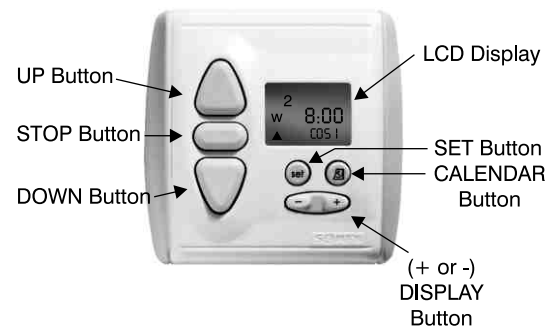
F-3 <u>SETTING (COSMIC 1) DIFFERENTIAL TIMES</u>
Step 1.
Press and release the **SET Button**
Step 2.
Press the and release the **UP Button.** Up differential time will flash on the LCD Display
Step 3.
Press the **(+ or -) DISPLAY Button** to adjust the UP differential time **(+ or - 1 hr. 59 min.)**
Step 4.
Press and release the **DOWN Button.** DOWN differential time will flash on the LCD Display
Step 5.
Press the **(+ or -) DISPLAY Button** to adjust the DOWN differential time
Step 6.
Press and release the **SET Button** to save. Current time will be displayed

LCD Display

**Current
Time**

W   8:00

▲ 0   1:59

**Command
Direction**   **Differential
Time**
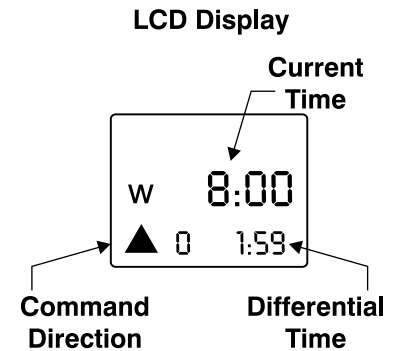
F-4 <u>SETTING (COSMIC 1) CUT-OFF TIMES</u>
Step 1.
Press and release the **SET Button**
Step 2.
Press the and release the **UP Button** (TWICE). Up cut-off time will flash on the LCD Display
Step 3.
Press the **(+ or -) DISPLAY Button** to adjust the UP cut-off time **(+ or - 1 hr. 59 min.)**
Step 4.
Press and release the **DOWN Button** (TWICE). DOWN cut-off time will flash on the LCD Display
Step 5.
Press the **(+ or -) DISPLAY Button** to adjust the DOWN cut-off time
Step 6.
Press and release the **SET Button** to save. Current time will be displayed

LCD Display

**Current
Time**

W   8:00

▲ 5   7:30

**Command
Direction**   **Cut-off
Time**

NOTE: Factory Default setting: (UP Direction = 6:00am / DOWN Direction = OFF)
If CUT-OFF TIMES are NOT REQUIRED, set CUT-OFF COMMAND to OFF (located between hours 23:59 and 0:00)

F-5 <u>ASTRONOMICAL (COSMIC 2) TIME MODE</u>

- **COSMIC 2** mode will enable the Window Coverings to **OPEN** in accordance to the pre-set times for each day of the week, and **CLOSE** in accordance to COSMIC 1 settings.

- Differential Times and Cut-off Times for COSMIC 1 Mode are observed

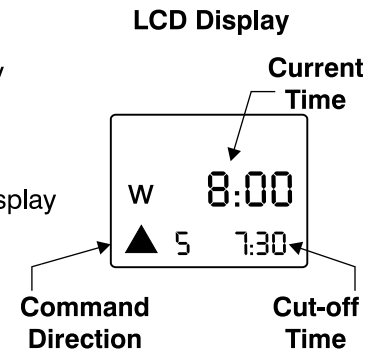**NOTE: Time changes CANNOT be performed in COSMIC 2 Mode**

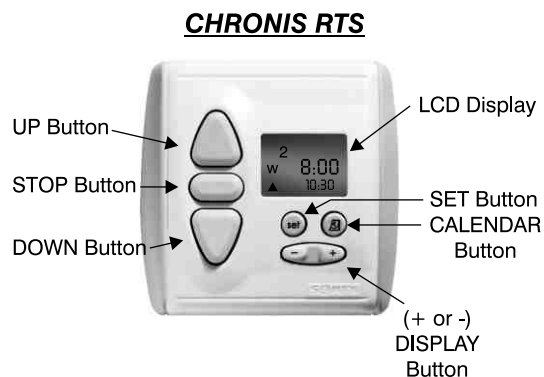## F. Programming Special Automatic Features (ALL RTS MOTORS/CONTROLS)

F-5 **SETTING (COSMIC 2) TIME MODE**
- Represented by "COS 2" on LCD Display
Step 1.
Press and hold the **SET Button** until "COS 2" is displayed, then release

CHRONIS RTS

UP Button
STOP Button
DOWN Button
LCD Display
SET Button
CALENDAR Button
(+ or -) DISPLAY Button

G. MANUAL OPERATION OF WINDOW COVERINGS

G-1 **UP COMMAND (All Non-Battery Powered Window Coverings)**
- Press the **UP Button** Momentarily. Window Covering will operate in UP Direction

UP COMMAND (Battery Powered Window Coverings)
- Press and HOLD the **UP Button** (2-3 Sec.). Window Covering will operate in UP Direction

DOWN COMMAND
- Press the **DOWN Button** Momentarily. Window Covering will operate in DOWN Direction

STOP COMMAND
- Press the **STOP Button** Momentarily. Window Covering will STOP

IP (Intermediate Position) COMMAND
- Press the **STOP Button** when Window Covering is in a FULL UP or FULL DOWN POSITION.
- Window Covering will travel to the pre-programmed "IP" (Intermediate Position)

SETTING CHRONIS RTS TO OFF MODE
- Press **(+ or -) DISPLAY Button** until "OFF" is displayed

H. RE-SETTING THE CHRONIS RTS TIMER

H-1 **Step 1.**
- Press and hold the UP and DOWN buttons (10 Seconds) CHRONIS RTS will reset to factory default settings
  (See Page 3 for factory default times)