SOLAR SMART

Model 2.0



Solar Smart is a battery powered, solar charged, remote operated, chain drive opener system – designed for use in awnings, hopper windows, and skylights. Solar Smart is designed to be used without any additional power and wiring from the building. The operator is powered by a rechargable battery pack that is recharged from the external solar panel; an optional AC adapter is included. Solar Smart was engineered to feature ultra-low power consumption while in idle state, and in use.



INSTRUCTURAL VIDEOS ARE AVAILABLE ONLINE

Please visit www.SolarSmartOpener.com for step-by-step video instructions and explanation of the Solar Smart operator motor, remote and programmable features. Ensure that your installation is complete, and the solar panel charge current (mA) is sufficient. Read this manual for details or watch a video to learn how to check the solar charge rate (mA).

www.SolarSmartOpener.com

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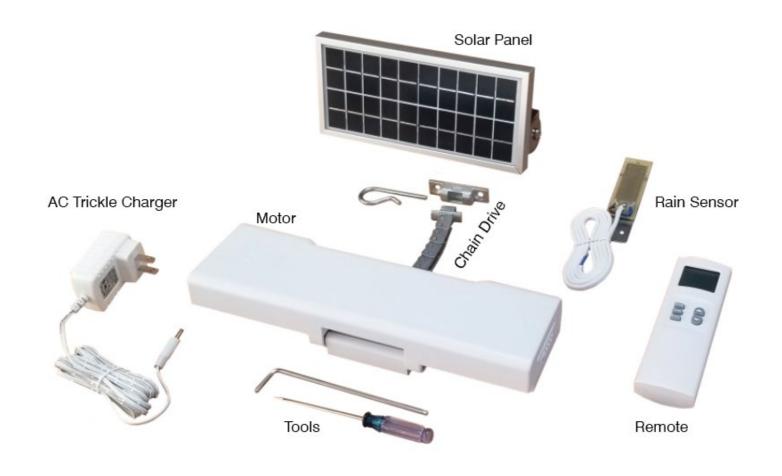
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IN THE BOX

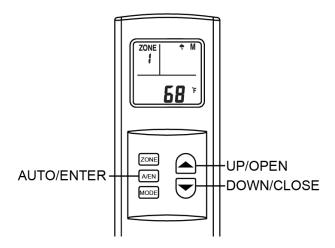
- Solar Smart Motor
- Rechargeable Motor Battery
- Chain Clip with Release Pin
- Small flat head screw driver
- Remote
- (2) AAA batteries
- Solar Panel with Brackets and Wiring Pigtail
- Rain Sensor with Wiring and Bracket
- AC trickle charger

FURTHER ITEMS REQUIRED

- (5) fasteners for mounting the operator
- (2) fasteners for mounting the chain clip
- (4) fasteners for mounting the solar panel and bracket



BASIC OPERATION



Using the operator requires that it has been paired to the remote. Refer to Initial Remote Setup and Configuration.

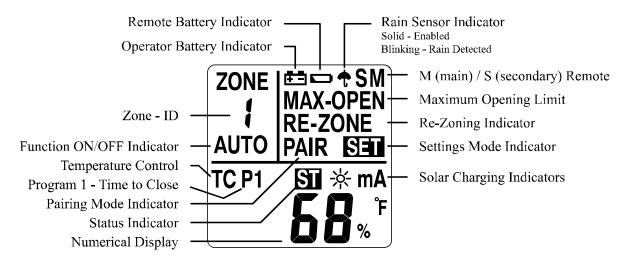
Opening and Closing of an Operator

- 1. Press any key to wake up the remote, if the LCD display has powered off.
- 2. Press ZONE to choose a single zone (1 thru 9) of operators or ALL to operate all operators in all zones.
- 3. Press OPEN or CLOSE to open or close the window/skylight.
- 4. Press OPEN or CLOSE during operation to **STOP** the operator at any time.

Enable / Disable Automatic Functions

1. Press and hold AUTO to show or remove AUTO from the display, thus enabling or disabling the temperature control (TC) or Time-to-Close (P1) functions.

REMOTE DISPLAY



OPERATOR and SOLAR PANEL INSTALLATION

- 1. The battery may come packed inside the motor, or separately in the box. Either way, the battery is NOT plugged in yet. Be sure to plug the battery connector to the motor circuit board, pressing firmly until the plug is locked into place.
- 2. Align the chain clip mounting location to be parallel to that of the mounting bracket pivot screws to ensure proper operation and prevent hardware interference.
- 3. Position the operator with enough distance from the chain clip to ensure that the window/skylight is allowed to fully close.
- 4. Mount the operator using a minimum of 3 fasteners. Fasteners are not included.
- 5. Mount the chain clip to the window/skylight using the two fastener holes. Fasteners are not included. Take care to ensure that the chain clip is parallel to the mounting bracket pivot screw.
- 6. Attach the chain to the chain clip using the release pin. Insert pin at an angle, rotate to secure.

It may be necessary to connect the battery pack to the operator and use the manual override controls inside the battery compartment to extend the chain to allow for connection to the chain clip.

INSTALLATION of the SOLAR PANEL and RAIN SENSOR

- 1. The solar panel must be mounted with airspace underneath for cooling and performance efficiency; as well as maintain the product life span.
- 2. Lay the solar panel face down on a flat surface. Take care not to scratch the solar panel.
- 3. With the hardware provided, install the brackets as shown here. Be sure to use the locking washers on all fasteners. Note that the tabs of the mounting bracket can face inward or outward.
- 4. Be sure to tighten all fasteners down TIGHT to prevent SNOW and WIND from rotating the panel next Winter.



Revision 6.30.2021

WIRING the SOLAR PANEL and RAIN SENSOR to the OPERATOR

Solar Panel

- 1. At this point, the solar panel wiring should be routed to the interior with any access hole(s) sealed and waterproofed.
- 2. Cut the wiring to the required length.
- 3. Cut back the wiring jacket to expose the wires.
- 4. Separate the two lead wires.
- 5. Strip back 1/2" of the wiring jackets of the two individual wires.
- 6. Remove the cover on the right side of the motor.
- Loosen the two set screws located in the terminal block aligned with the SOLAR designation.
- 8. The wiring could be either pairing: red and black or blue and brown, or. The red (or blue) wire is positive, the black (or brown) wire is negative. Insert the wire leads into the two right wiring holes (SOLAR) on the exterior of the motor associated with the two polarities. It is VERY important that the polarity is wired correctly.
- 9. Secure the wires with the set screws in the terminal block.
- 10. Ensure that both wires are firmly set, by pulling on each individual strand (not both together). A properly secured wire will not pull out easily.

Rain Sensor

- 1. Strip back 1/2" of the wiring jackets of the two Rain Sensor wires.
- 2. Loosen the two set screws located in the terminal block aligned with the RAIN designation.
- 3. These Rain Sensor wires are not polarity sensitive so either wire can be inserted in either connector.
- 4. Secure the wires with the set screws in the terminal block.
- 5. Reinstall the operator battery cover.
- 6. Periodic cleaning of the Rain Sensor is required.



INITIAL REMOTE SETUP and CONFIGURATION

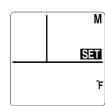
- The following are applicable for configuring the main remote only. To configure additional remotes, refer to 'Multiple Remotes' for more information.
- Pressing MODE does not work when zone in remote display is set to ALL. Press ZONE to exit zone ALL.
- All steps must be performed within 30 seconds or the remote control will default to the previous settings.
- 1. Open the remote battery cover and install the two AAA alkaline batteries and replace the cover. If already installed, remove and reinstall to begin.
- 2. All the screen display segments will be visible while the remote runs a self-test which lasts for a few seconds. After which, **SET** will be displayed.
- 3. Press ▲ ▼ to choose either **C** (Celsius) or **F** (Fahrenheit).
- 4. Press ENTER A/EN to save your selection.
- 5. Press **\(\)** to choose either **M** (main) or **S** (secondary). Select **M** for main.

Note: Secondary is only used when using additional remotes. Refer to 'Multiple Remotes' for more information.

- 6. Press ENTER A/EN to save your selection.
- 7. **ZONE ALL** and the temperature should now be displayed.









PAIRING the REMOTE to the OPERATOR

- Pairing sets up communication between the remote and the operator.
- The remote will be able to control all motors assigned within a single Zone simultaneously or control all Zones at once.
- There are 9 Zones (1 thru 9), with each Zone containing 9 ID numbers (1 thru 9). Each operator will need to be assigned to a Zone and ID number. Each Zone and ID number combination can only be assigned one operator.
- For example, a single Motor paired to a Remote would be in Zone 1 and ID 1, which would be 1-1. A second motor paired to the same Zone would be in ID location 2, thus 1-2. Both would open/close when the Remote was set to operate Zone 1. Alternatively, the second motor could be installed on a separate Zone, such as Zone 2, thus would be 2-1. In that scenario, only the first Motor would open/close when the Remote was set to Zone 1, and only the second Motor would open/close when the Remote was set to Zone 2. Selecting ZONE ALL on the Remote, would still open/close all Motors at once.
- The following instructions are applicable to pairing the first and additional operators to a single remote.
- Each operator can only be paired with one main remote, however multiple secondary remotes may be used once setup and configured.

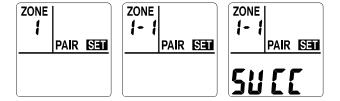
The Operator

- The Remote will need to be paired within 2 minutes, or the operator will default back to the previous settings. No need to rush, 2 minutes might seem short but is actually a long time for this short process.
- 1. Remove the left cover from the operator.
- 2. Connect the battery connector to the operator circuit board, pressing firmly until the plug is locked into place.
- 3. Press the PAIRING button, located near the battery plug.
- 4. The red light on the circuit board will continually blink while it is in pairing mode.



The Remote

- 1. Press any key to wake up the remote, if the display has powered off.
- 2. Press and hold the MODE, release when **PAIR SET** is displayed.
- 3. Press ENTER A/EN to entering Pairing Setup.
- 4. Press ZONE as necessary to choose the appropriate zone (1 thru 9).
- 5. Press ENTER to save your selection.
- 6. Press ▲ ▼ to choose the ID number (1 thru 9) within the zone. ID numbers already in use will not be displayed.
- 7. Press ENTER A/EN to save your selection. The remote will attempt to pair to the operator.
- 8. **SUCC** will be displayed to indicate a successful pairing. The operator will then fully open then close one cycle. DO NOT press any buttons on the remote until this cycle completes.
 - a. If a **FAIL** message is displayed, press **ENTER** on the remote to try to pair again.
 - b. If a **FAIL** message is displayed again, ensure that the operator is in pairing mode. If the red light is not still blinking, disconnect and reconnect the battery connector on the operator and repeat steps 1-7 again.



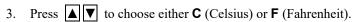
MULTIPLE REMOTES

- It is intended that one or multiple motors may be controlled from multiple secondary remote. This is done by sending the pairing and settings stored in the first configured **M** (main) remote, to the additional **S** (secondary) remote(s). Secondary remotes will be 'copies' of the main. Only 1 Secondary Remote can be created.
- Any changes to operator zones, ID numbers, and/or adding additional operators can only be performed using the main remote. The changed settings would then need to be re-sent from the main to the secondary remote(s).
- Ensure that a main remote has been configured as outlined in 'Remote Setup and Configuration' and that it has been paired to the operator(s) as described in 'Pairing Remote to Operator.'

Secondary Remote Configuration

All steps must be performed within 30 seconds, or the remote control will default to the previous settings.

- 1. Open the remote battery cover; remove and reinstall two AAA alkaline batteries and replace the cover.
- 2. All the screen display segments will be visible while the remote runs a self-test which lasts for a few seconds. After which, SET will be shown on the Display to indicate input is required.



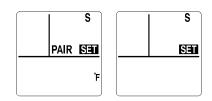
- 4. Press ENTER A/EN to save your selection.
- 5. Press ▲ ▼ to choose either **M** (main) or **S** (secondary). Select **S** for secondary.
- 6. Press ENTER A/EN to save your selection.
- 7. **ZONE ALL** and the temperature should now be displayed.

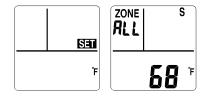
1. SECONDARY REMOTE STEPS

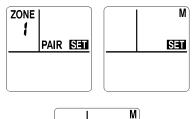
- a. Press and hold MODE, release when PAIR SET is displayed and the S in the upper-right corner is flashing.
- b. Press ENTER A/EN . The secondary remote will now be waiting to receive the transmission from the main remote. It will wait for 30 seconds.

2. MAIN REMOTE STEPS

- a. Press and hold MODE, release when PAIR SET is displayed.
- b. Press **\(\bigcup \)** to display **M** in the upper-right corner as flashing.
- c. Press ENTER A/EN to begin transmitting the settings to the secondary remote.
- d. **SUCC** will be displayed on a successful transfer of settings.
 - If a FAIL message is displayed instead, be sure that the secondary remote is still configured to be waiting to receive the transmission. Press ENTER A/EN to retry.









RAIN SENSOR

The rain sensor should be installed horizontally, to collect rainfall but with a slight tilt to prevent water from pooling. The sensor location depends on many factors. The key to proper installation is that the sensor must be **near level and exposed** when the operator opens the unit. Ideally, the sensor should not be exposed to the exterior when the unit is closed, to reduce weather and corrosion on the copper contacts. The wires from the sensor to the operator must be run to the operator in a water proof manner so as to not induce water penetration that could damage the interior. The sensor is not polarity sensitive so it does not matter which wire goes to which connector in the operator.

By default, the rain sensor is <u>disabled</u> when the remote is initially paired to the operator regardless of whether the rain sensor is attached or not. When the rain sensor is enabled a small tumbrella will be displayed in the top right hand display box.

- 1. To enable or disable the rain sensor, press any key to wake up the remote if the LCD display has powered off.
- 2. If **ZONE ALL** is displayed, press **ZONE** to display any Zone other than ALL.
- 3. Press MODE .
- 4. Press ZONE as necessary to choose the desired zone.
- 5. After the desired zone is flashing, Press ENTER A/EN.
- 6. **MAX-OPEN** will now be flashing.
- 7. Press ▲ ▼ until the ↑ icon is displayed and flashing, press ENTER A/EN.
- 8. Press ▲ ▼ to choose the ID number (1 thru 9) within the zone.
- 9. Press ENTER A/EN to confirm your selection.
- 10. Press ▲ ▼ to choose between **ON** and **OFF** while they are flashing.
- 11. Press ENTER A/EN to save your setting.
- 12. LCD displays steady **ON** or **OFF** for one second, then **SUCC** for 2 seconds, indicating success. Press MODE a few times to return to the home screen
 - a. If setting not successful, LCD displays **FAIL** for 1 second, then returns to the same step #8 to retry setting.

RAIN SENSOR OPERATION

When a drop of water is on the sensor the operator may not react immediately. The control system actually takes multiple readings in an effort to avoid false readings and possible "cycling" of the operator before it sends the close or open commands.

If the operator is manually opened when the rain sensor is enabled AND there is water present on the sensor, the operator will close and the tumbrella icon will blink on the Remote. If you desire to open the operator at this time, the sensor will need to be disabled before it will stay in the open position.

If the Rain Sensor and the Automated Temperature Control are enabled at the same time, the Rain Sensor will take precedence over the Temperature Control. In other words, if rain is detected, the operator will close regardless of the temperature until such time as water is no longer detected on the sensor before it will automatically re-open.

As noted above, the rain sensor is designed to detect a lowering of the resistance between the metallic strips on the sensor. The resistance can be lowered by a number of factors including moss, sap, heavy dew, or condensation drops from surrounding structures. Therefore it is important to periodically clean the sensor to maintain proper operation. If all operations function properly except when the Rain Sensor is enabled, cleaning the Rain Sensor is recommended.

TIME TO CLOSE

The Time to Close (**P1**) function will automatically close the operator after a user defined time period. The user selected time period is in 10 minute increments from 0 to 1 hour. From 1 to 24 hours, the increments change to 30 minutes.

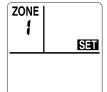
- 1. Press any key to wake up remote, if the LCD display has powered off.
- 2. If **ZONE ALL** is displayed, press **ZONE** to display any Zone other than ALL.
- 3. Press MODE the LCD should display **SET**, and **ZONE** should be flashing.
- 4. Press ZONE as necessary to choose the appropriate zone (1-9).
- 5. When the correct zone is flashing, press ENTER
- 6. **MAX-OPEN** will be displayed and flashing.
- 7. Press ▲ ▼ until P1 is displayed and flashing.
- 8. Press ENTER A/EN .
- 9. Press ▲ ▼ until the desired Time To Close is displayed and flashing or **NULL** to turn function off.
- 10. Press ENTER A/EN .
- 11. **ST** is now displayed and flashing. Press MODE to return to the home screen OR press ▲ ▼ to scroll and set other features.
- 12. The Time To Close selection will be retained in memory until changed by the user. However, you must activate the **AUTO** feature for either the Time To Close or the Temperature Control (TC) function for it to operate. NOTE: The Time To Close and Temperature Control cannot be enabled simultaneously for the same zone.

Enable / Disable the TIME TO CLOSE Function

- 1. To activate the **AUTO** function you must start in the Home screen.
- 2. Press ZONE to select the Zone (other than ALL) to have the function applied to.
- 3. Press and hold the AUTO button for 2 seconds until the screen changes. The screen will read either AUTO/TC, AUTO/P1, or be blank which disables both automatic functions. Each time you press and hold the AUTO button for 2 seconds it will scroll the screen to the next option. When the correct Auto Function is displayed, you are done.
- 4. When the Auto function is enabled, it will stay enabled until it is turned off.

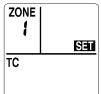
SETTING MAX-OPEN LIMIT

- The travel distance that the operator(s) will open a window/skylight (MAX-OPEN) can be reduced for all operators within a zone; and each zone may have a unique MAX-OPEN value. This may be beneficial to prevent rain or excess wind from entering when the operator(s) is open.
- The factory setting MAX-OPEN limit is set to open up to 80% of full open position.
- 1. Press any key to wake up the remote, if the LCD display has powered off.
- 2. If **ZONE ALL** is displayed, press **ZONE** to display any Zone other than ALL.
- 3. Press MODE.
- 4. Press **ZONE** as necessary to choose the appropriate zone **1** thru **9**.
- 5. Press ENTER A/EN to save your selection.
- 6. **MAX-OPEN** will be displayed and flashing.
- 7. Press ENTER A/EN .
- 8. Press ▲ ▼ to set the percentage, in increments of 10%.
- 9. Press ENTER A/EN to save your setting.
- 10. **TC** is now displayed.
- 11. Press MODE to return to the home screen OR to continue on to set the Temperature Control (TC).









SETTING TEMPERATURE CONTROL (TC)

- Automated temperature control (**TC**) can be set for all operators within a zone; and each zone may have unique **TC** values.
- When set and the remote is set to **AUTO**, the temperature control will open the operator(s) within a zone when the **LO** temperature setting is reached.
- Optionally, in order to allow AC equipment to work in tangent with natural ventilation (without allowing the conditioned air
 to escape) the operator can close if the temperature continues to rise to the HI temperature setting. This is set to NULL by
 default. The HI temp setting should be set below an AC equipment trigger temperature.
- **TC** will also close the operator(s) when the temperature drops more than 5 degrees (F) or 2 degrees (C) below the **LO** temperature level.
- This automatic function is based on the temperature at the remotes location and must be maintained for approximately 5 minutes.
- 1. Press any key to wake up the remote, if the LCD display has powered off.
- 2. If **ZONE ALL** is displayed, press **ZONE** to display any Zone other than ALL.
- 3. Press MODE.
- 4. Press ZONE as necessary to choose the appropriate zone (1 thru 9).
- 5. Press ENTER A/EN to save your selection.
- 6. **MAX-OPEN** will be displayed and flashing.
- 7. Press ▲ ▼ until **TC** is displayed and flashing. Press ENTER A/EN .
- 8. Press ▲ ▼ to set the desired temperature for the **LO** setting, or **NULL** to turn function off, for this zone. Press ENTER A/EN to save your selection.
- 9. Press to set the desired temperature for the **HI** setting. Set to high value if you wish to keep open for rising temperatures. Set as **NULL** if no upper limited is desired. Press ENTER A/EN to save your selection.
- 10. Next set the percentage the operator will open during **TC** operation. Press ▲ ▼ to set the opening distance, in increments of 10%. Press ENTER A/EN to save your setting.
- 11. P1 is now displayed.
- 12. Press MODE to return to the home screen OR to continue on to check the status of the batteries and charge current.

After any change to the TC settings, the TC function will be enabled and AUTO will be displayed.

Enable / Disable the TC Function

- 1. Press ZONE to select the Zone (other than ALL) to have the function applied to.
- 2. Press and hold the AUTO button for 2 seconds until the screen changes. The screen will read either AUTO/TC, AUTO/P1, or be blank which disables both automatic functions. Each time you press and hold the AUTO button for 2 seconds it will scroll the screen to the next option. When the correct Auto Function is displayed, you are done.

CHECKING STATUS OF BATTERIES AND CHARGING CURRENT

- 1. Press any key to wake up the remote, if the LCD display has powered off.
- 2. If **ZONE ALL** is displayed, press **ZONE** to display any Zone other than ALL.
- 3. Press MODE.
- 4. Press **ZONE** as necessary to choose the appropriate zone (1 thru 9).
- 5. Press ENTER A/EN to save your selection.
- 6. **MAX-OPEN** will be displayed and flashing.
- 7. Press ▲ ▼ until ST is displayed and flashing. Press ENTER A/EN .
- 8. Press \(\bigs \) to choose the ID number (1 thru 9) of the operator within the zone.
- 9. Press ENTER A/EN to save your selection.
- 10. Press ▲ ▼ to cycle viewing either the solar charging rate in mA, operator battery status, or the remote battery.
 - Solar charging rate is measured in Milliampere (mA). Refer below for more information on charging rate.
- 11. Press MODE to return to main screen.

Minimum Solar Charge (mA) readings in SUMMER MONTHS

- Overcast Conditions: 20 mA minimum (60+ mA typical)
- Blue Sky Conditions: **60 mA minimum** (80+ mA typical)

Minimum Solar Charge (mA) readings in WINTER MONTHS

- Overcast Conditions: 10 mA minimum (30+ mA typical)
- Blue Sky Conditions: **30 mA minimum** (40+ mA typical)

NOTE: If you are not seeing readings like this, something needs to be corrected. Leaving this uncorrected will result in a dead battery.



Remote Battery Status



Solar Charging Rate



Operator Battery Stat

Charging Rate

- mA is the abbreviation for Milliampere, which is a unit of electrical current flow. In this case, it is the measurement of current into the battery when charging. The charging measurement is taken each time the status is requested and is a 'snap shot' of the conditions at that particular moment in time.
- This measurement is highly variable and depends directly upon the level of sunlight on the solar panel. Be aware of external influences which affect the light level, these are: direction and angle of exposure of the solar panel to the light source, sky conditions, clouds, man-made structures or trees which cause shadows on all or part of the solar panel, and maintenance of the solar panel itself, to keep it clean.
- Current flow is also highly dependent upon the battery state of charge and the status measurement may report zero or low mA, even when solar and all other conditions are optimum. For example, the solar panel could be outputting 40 mA on a battery that has a low charge, however on a battery with near full charge the output may only be 10 mA.

Battery Alerts

- The icon will be displayed on the remote when the remote batteries are in need of replacement.
- The icon will be displayed when the operator battery is low. When the operator battery is critically low, the operator will be allowed to close; however will not be able to open until the battery is recharged to a sufficient level.

RE-ZONING

- Recommended only for when multiple operators are used with a single remote.
- This process removes the operator from the assigned zone and/or ID number, but remains paired to the remote. The operator then is reassigned to a new zone and/or ID number on the same remote.
- CAUTION If this is not done correctly, you will have to re-pair the Remote to the Operator, which would involve unplugging the Operator's battery. Please read these instructions carefully first, before performing this operation.
- 1. Press any key to wake up the remote, if the display has powered off.
- 2. Press and hold MODE, release when PAIR SET is displayed.
- 3. Press ▲ ▼ as needed to display **RE-ZONE**. Press ENTER A/EN
- 4. Press ZONE as necessary to choose the appropriate zone (1 thru 9) of the operator to be moved to another zone. Press ENTER A/EN.
- 5. Press ▲ ▼ to choose the ID number (1 thru 9) within the zone in which the operator is assigned to. Press ENTER A/EN
- 6. **SUCC** will be displayed. The operator will now be unassigned from the previous zone and ID number.

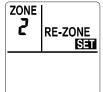
DO NOT STOP HERE, steps 8, 9 and 10 must be completed.

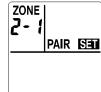
- a. Press ENTER A/EN to retry, if a **FAIL** message is displayed instead.
- 7. Press ZONE to choose the new zone (1 thru 9) the operator shall be assigned to.
- 8. Press ENTER A/EN to save your selection.
- 9. Press **\(\bigvert \)** to choose the ID number (**1** thru **9**) within the zone in which the operator shall be reassigned to.
- 10. Press ENTER A/EN to save your selection.
- 11. **SUCC** will be displayed. The Operator will run through an entire open and close cycle.













DELETE an ID from REMOTE

- If an ID is occupied from an Operator no longer in use, the memory of that Operator needs to be deleted from that Remote, to allow another Operator to be paired with the Remote at that ID.
- To do this, follow the REZONE instructions Steps 1-7 as listed above. Since the Remote can no longer communicate with the Operator, **FAIL** will be displayed.
- Press ENTER A/EN again to retry. After third failed attempt, **DELE** will be displayed. Press ENTER A/EN to confirm deletion of the Operator no longer in use.

TROUBLESHOOTING TIPS

- 1. If in **AUTO** mode and operator(s) is not working as expected, make sure none of the secondary remotes are set to **AUTO** mode and that temperature control (**TC**) for all zones on secondary remotes are set to **NULL**.
- MAX-OPEN can be set to different values on both the main and secondary remotes. The operator will open to the MAX-OPEN setting of the remote used to open it. If the operator is not opening the proper amount be sure to check that MAX-OPEN is set properly on the remote used.
- 3. Temperature control (TC) may also have to be set to have a lower MAX-OPEN value than the otherwise set MAX-OPEN.
- 4. Temperature change must be maintained for 10 minutes before the temperature control (**TC**) function will operate.

REMOTE SCREEN STAYS ON WHICH KILLS THE BATTERIES QUICKLY

This is a glitch that surfaces from time to time. Fortunately, there is a quick and easy fix to this. The Remote needs to be Reset to Factory Settings. This is more-or-less like a hard reboot of the firmware. Unfortunately, the Remote will need to be re-paired to the Motor, which requires pressing the Pairing Button on the Motor. See below for instructions on how to Reset the Remote to Factory Settings; as well as see our video on this online at www.SolarSmartOpener.com.

For more Trouble Shooting Tips, please visit www.SolarSmartOpener.com

ADVANCED SERVICE OPERATIONS

RESET OF REMOTE TO FACTORY SETTINGS

- 1. Press any key to wake up the remote, if the display has powered off.
- 2. Press and hold MODE, release when **PAIR SET** is displayed.
- 3. Press ▲ ▼ to display M in the upper-right corner as flashing.
- 4. Press ENTER A/EN FAIL is displayed as flashing.
- 5. Press and hold MODE, release when **rF TEST** is displayed.
- 6. Press MODE repeatedly until **rET FAC** is displayed.
- 7. Press ENTER A/EN, all the screen display segments will be visible while the remote runs a self-test which lasts for a few seconds. After which, SET will be displayed.

The remote has now been reset to factory settings; it is no longer paired to any operators.

Please record your Remote settings for ease of reference as well as assist in troubleshooting.

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