

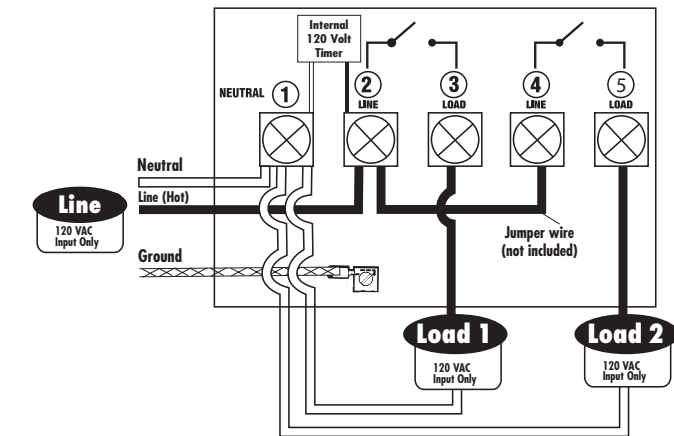
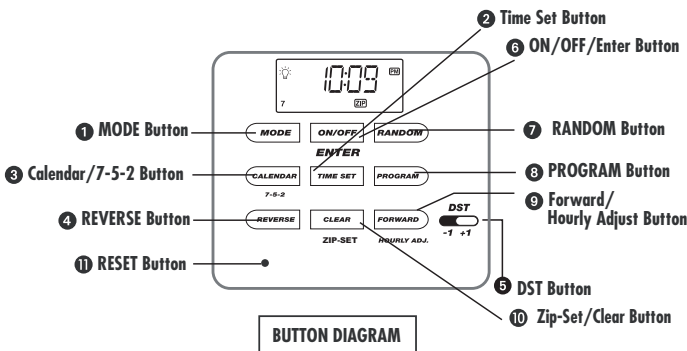
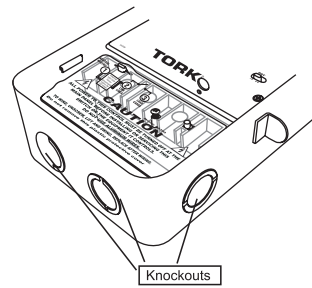
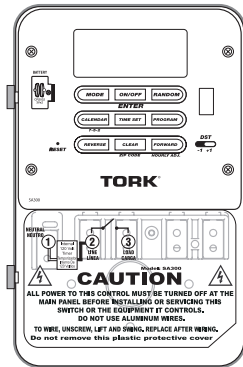
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PROGRAMMING INSTRUCTIONS



This product has passed ETL testing. It is certified and complies with both U.S. and Canadian product safety standards.

SA306

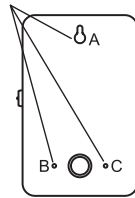


CONTACT RATINGS:

- 120VAC, 60 Hz.
- 40 AMP Resistive
- 40 AMP Inductive
- 40 AMP Tungsten
- 40 AMP Incandescent
- 3 HP Motor

INSTALLATION AND MOUNTING

Mount the timer in the desired location using the three mounting holes (A,B,C) provided. The best mounting position for the timer is at eye level with sufficient room for the door cover to swing fully open. The top mounting hole (A) is a slotted type mounting hole, so measure and secure this to the wall with the first (A) screw. The head of the screw (or fastener) should be slightly larger than the narrow portion of the slotted hole. Hang the timer on screw A. Screw timer into the wall using the remaining two mounting holes (B & C) to provide a secure permanent mounting for the timer. **PLEASE NOTE:** Mount case in a vertical position using mounting holes provided.



EASY WIRING

1. Turn power OFF at circuit breaker or fuse.
2. Strip 5/8 inch of the wire insulation.
3. Unscrew, lift and twist plastic protective cover to access the terminals.
4. Identify your Line and Load wires.
5. Run your wires through the knockouts and cable clamp wire connectors (not provided).
6. Connect and tighten the ground wire to grounding terminal at bottom of case.
7. Insert the wire ends under the proper terminal plates and tighten the screws firmly.
8. Replace the plastic protective cover.
9. Restore power at fuse box or circuit breaker. Turn power ON.

TIMER OPERATION

MANUAL OVERRIDE

To override the On or Off settings, press the **ON/OFF** Button. The override setting will not change the next timed event.

TURN OFF ALL TIMER FUNCTIONS

If you don't want to use any timer functions, just press the **MODE** Button until "OFF" is displayed.

UNDERSTANDING THE ZIP-SET MODE

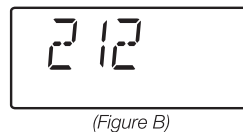
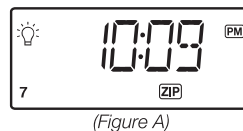
Zip-Set mode is used to set the TIME and set an outdoor lighting program in one easy step. When completed, the SA306 will have the proper time and be set to turn ON at Sunset and off after 6 hours. The off time can be adjusted in the mode also. Zip-Set is pre-set to the 212 area code (New York City) time zone so no adjustment is needed for this area code. If you live in New York within the 212 area code, simply press the **MODE** button to "ZIP" and you are done.

NOTE: Do not touch the time setting! It must always be set to the Default Preset Factory Time (NYC - (212) local time) for the zip-set program to work.

SET TIME WITH ZIP-SET MODE

The SA 306 internal clock is pre-set at the factory to the (212-NYC area code) Eastern time zone. (If you live in another area code other than 212- you need to change the area code). Simply enter your telephone area code by following these easy steps to have the time adjust to your location:

1. (Figure A) Press the **MODE** button until "ZIP" appears in the display.
2. (Figure B) Press and hold the **ZIP-SET/Clear** button until the display shows the 3-digit area code input mode.
3. The 1st digit of the telephone area code should be flashing. Press the **FORWARD/HOURLY ADJUST** or **REVERSE** button to adjust it, then press **ON/OFF/ENTER** button to enter it and edit the next digit. Press the **ZIP SET/Clear** button to go back to edit the previous digit. Continue until the correct telephone area code is displayed.
4. (Figure C) Once your telephone area code is entered, select a turn OFF time for the Zip-Set automatic sunset timer (the default turn OFF time of 6 should flash). You can have the timer turn off 2, 4, 6, 8, 10, 12, 14, or 16 hours after sunset - or a fixed time, 12:30am, 1:00am, 1:30am, etc. While the turn OFF time is flashing, press the **FORWARD/HOURLY ADJUST** to cycle to the desired turn OFF setting, then press



5. Press **MODE** button to Zip (display icon) to confirm the timer is set for ZIP-SET Auto ON at Sunset.

NOTE:

1. After entering the Area codes for certain states, a "C" may appear next to the telephone area code, indicating a central location in the state. Press **FORWARD** or **REVERSE** to toggle to W (West) or E (East) and N (North) or S (South) if needed for proper time setting.
2. There are also area codes that may have different time zones; for example the 208 area code; by default will flash PST or by pressing **FORWARD** or **REVERSE** will toggle to MST)
3. Telephone area codes can change and may not appear in the timer's table. Should that occur, please use the closest adjacent area code to set the timer correctly for your location.
4. If a new area code was issued after this unit was manufactured or if you enter an invalid/nonexistent area code, you will get an error message stating 'AREA CODE NOT FOUND'. Enter the closest correct area code for zip set mode to function properly.
5. If the clock/calendar is not correct or time is lost after replacing batteries, zip-Set mode will not function properly. Please see Setting Clock and Calendar (below).

ACTIVATE THE ZIP-SET SUNSET TIMER

1. Press the **MODE** button until "ZIP" icon is displayed. The Zip-Set sunset timer is set and active.
2. SA306, once properly set, knows the sunset time of your location. It will automatically turn on at sunset and turn off after your selected duration time of 2, 4, 6, 8, 10, 12, 14 or 16 hours (see ZIP-Set Telephone Area Code Setting)- or at a fixed time, 12:30am, 1:00am, 1:30am, etc.
3. Press the **RANDOM** button once to activate the random feature so the timer ON/OFF time will fluctuate between +/-10 minutes to +/-120 minutes randomly. To cancel this feature, press the button again (RANDOM disappears). When your home is left unattended, this is an excellent security feature to simulate household activity and random should be activated.

USING PROGRAMMABLE ON AND OFF TIME SETTINGS

The SA306 has 2 independent programmable ON/OFF time settings so you can turn outdoor holiday, landscape and security lighting, etc. on and off at specific times.

1. Press **MODE** button until the "PROG" and "1" icons are displayed.
2. Press the **CALENDAR/7-5-2** button to select the timer frequency. "7" means the timer will operate all week, "5" for weekdays and "2" for just the weekend.
3. (Figure E) Press and hold the **PROGRAM** button until the display is flashing.
4. The display will change to show the "ON" time for program 1 and flash. The ON icon will appear. Press the **FORWARD/HOURLY ADJUST** or **REVERSE** button to adjust the ON time.
5. (Figure F) Press the **ON/OFF/ENTER** button or wait for approx. 10 seconds. The display will show "OFF" time, and the OFF icon will appear. Press the **FORWARD/HOURLY ADJUST** or **REVERSE** button to adjust OFF time. Press the **ON/OFF/ENTER** button once more or wait for approx. 10 seconds to return to normal mode. Display will change back to show the clock time.
6. To program 2nd timer, just follow step 1-5 but press **MODE** Button until "PROG" and "2" icon is displayed.

NOTE:

Do not program the same on and off time when setting programs 1, 2, or 12. You can not set the turn on and turn off to the same time (i.e., Turn on at 5:00 am and turn off at 5:00 am). Doing so will produce an error message on the display. To resolve the error message, change the off time by at least one minute using the **FORWARD** or **REVERSE** button.

ACTIVATING THE PROGRAMMABLE TIMER

1. Press **MODE** Button until one of the program icons appears. That programmed timer is now active. (Press the **PROGRAM** Button to view the existing ON and OFF preset times).
2. There is a simpler way to adjust turn on time by pressing the **FORWARD/HOURLY ADJUST** Button. The turn On can be adjusted by +/-90 minutes.
3. If you wish, press the **RANDOM** Button once to activate the random feature. The timer on/off time will fluctuate +/-10 to +/-120 minutes randomly. To cancel this feature, just press the button again.

BATTERY REPLACEMENT

Battery Installation – This unit comes with 2 x CR2032 batteries for time keeping and back-up. You should replace the batteries every 2 years. To replace the batteries, please follow these steps:

1. Turn power OFF at circuit breaker to remove fuse.
2. Use a small Philips screw driver to remove screw holding the battery compartment.
3. Use a small flat screw driver gently pry the battery door open. Remove the 2 x old CR2032

batteries.

4. Install 2 x new CR2032 batteries into the battery compartment, making sure that the + and – polarities match up with the diagram printed on the unit.
5. When the batteries are in place, return the battery door its original position and tighten the screws.
6. If you find the timer is not running after installing new batteries, you may need to reset it first. Using the point of a pencil or paperclip, press the **RESET** Button located on the front panel. You will then need to reset the time and date.

NOTE:

When changing batteries, make sure to reset the current time to the correct time in the Eastern time zone. When you enter your telephone area code, it will then automatically adjust to the proper time for your location/time zone. If Reset: Zip-Set must have the area code, year and date and Eastern time entered properly to function.

SETTING CLOCK AND CALENDAR

Clock Setting (this function is usually used when batteries must be replaced). Set only to Eastern Time- 212 area code.

1. Press and hold the **TIME SET** Button until the display is flashing.
2. Press and hold the **FORWARD/HOURLY ADJUST** button to rapidly advance the time forward, or the **REVERSE** Button to rapidly change the time backward. Release button when the approximate correct Eastern time is displayed. PM Indicator is on the upper right corner of the display.

NOTE:

1. While pressing either **FORWARD/HOURLY ADJUST** or **REVERSE** button the minutes will begin at a moderate pace, and then get faster. This will help you in set the time faster and more accurately.
3. Press the **FORWARD/HOURLY ADJUST** or **REVERSE** button repeatedly until the correct Eastern time is displayed.
4. Press the **ON/OFF/ENTER** button or wait for approx. 10 seconds to exit time setting mode.
5. Press the **DST** button to ON to have timer increase the current time by 1 hour for daylight saving time. The DST Indicator is to the right of the display. Press the **DST** button again to turn it OFF. Current time will decrease 1 hour.

CALENDAR SETTING (This function is usually used when batteries must be replaced)

1. Press and hold the **CALENDAR/7-5-2** Button until "Y 04" (default) flashes on the display.
2. Press the **FORWARD/HOURLY ADJUST** or the **REVERSE** button to adjust to current year then press **ON/OFF/ENTER** Button or wait for approx. 10 seconds. The display will show month/date and flash.
3. Press the **FORWARD/HOURLY ADJUST** or **REVERSE** button repeatedly until the correct month/date is displayed.
4. Press the **ON/OFF/ENTER** button or wait for approx. 10 seconds to exit calendar setting mode.

NOTE:

While pressing either **FORWARD/HOURLY ADJUST** or **REVERSE** button the date will begin at a moderate pace, and then get faster. This will assist you in setting the time quickly and accurately.



(Figure E)



(Figure F)

(Light OFF)

ONE YEAR LIMITED WARRANTY: If this product fails because of a manufacturing defect within one year after purchase, we will, at our option, either repair or replace it at no charge. Our warranty does not cover damage caused by accident, abuse or misuse. We assume no further liability with respect to the sale or use of this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY. We make no warranty with respect to the fitness of any goods for the users particular application. This warranty gives you specific legal rights, and you also may have other rights which vary from state to state.

It is our intent to provide accurate and current specification information. However, in the interest of product improvement, TORK may alter the specifications or constructional details without prior notice.

