

TORK DG180

DIGITAL TIME SWITCH

24 HOUR WITH DAY OMIT

READ INSTRUCTIONS CAREFULLY BEFORE SETTING UNIT

FEATURES

Single channel controller

24 Hour scheduling with day omitting

288 Set points in 5 minute increments

Battery back-up uses standard 9 volt non-rechargeable (not supplied). Lithium averages 450 hours of power outage; Alkaline averages 175 hours

Manual override to the next scheduled event

Automatic daylight saving - user selectable

Automatic leap year compensation

AM/PM or 24 hour format - user selectable

INSTALLATION

UNIT IS TO BE INSTALLED BY A LICENSED ELECTRICIAN

1. To remove unit from enclosure: Push tab on right to swing unit to the left and remove.
2. Mount the enclosure at eye level using screws or other suitable fastening device. Bring supply and load wires in through bottom or side knockouts. **DO NOT USE TOP.**

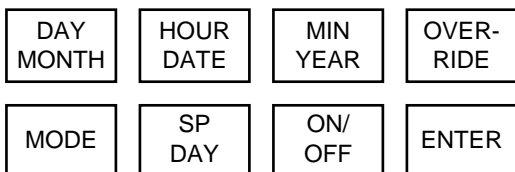
Input wires to controller must be dedicated i.e. no other loads connected to the same circuit.

3. Install a standard 9 volt lithium or alkaline battery (not supplied) by gently squeezing the right side of the battery cover on the front of the unit and pull to open. Pull out the battery connector and connect the battery. Reinstall battery cover. Lithium should be replaced every 3-5 years, Alkaline every year.

NOTE: Unit can be fully programmed using battery power only.

4. Reinstall unit by reversing step #1 above and connect wires to unit as per suggested wiring diagrams. See illustration on enclosure label.

KEY FUNCTIONS



DAY/MONTH: Press to advance the day in the CLK and SKIP modes. Press to advance the Month in the DATE mode.

HOUR/DATE: Press to set the Hours in the CLK mode and in the Schedule SET mode. Press to advance Date in the DATE mode.

MIN/YEAR: Press to set the Minute in the CLK mode and in the Schedule SET mode. Press to advance Year in the DATE mode.

OVERRIDE: Press to alter the Load status and/or to Override scheduled event.

MODE: Press to advance to next mode without affecting the display information. Sequence is: RUN, CLK, DATE, schedule SET, SKIP. **In the SET mode, unit automatically reverts to the RUN mode if no entries are made for a short time.**

SP DAY: Press to set or delete SKIP days (those on which no schedule is executed)

ON/OFF: Pressing each time will select ON or OFF EVENT. Multiple OFF's may be scheduled to cancel override ON'S

ENTER: Press to store the displayed information into memory. **Information will not be stored until ENTER is pressed.**

NOTE: During settings, each press of the key will advance one number. For rapid advance, hold key in.

SETTING THE UNIT

SELECT AM/PM OR 24 HOUR MILITARY FORMAT

Upon powering up the unit, model number 180 appears on the screen. The LCD will next display 12H which is an automatic (AM/PM) format.



Press ENTER to keep AM/PM format or press HOUR key to alter 24 hour (Military) format and then press ENTER.

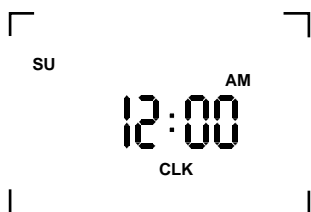
Once the ENTER is pressed, unit goes to RUN mode. You can recognize that the unit is in the RUN mode when the real time (including seconds) is displayed.



NOTE: Once you select and ENTER the above format (either AM/PM or 24 hour military), you can not alter it without removing all power to the unit by disconnecting the battery and line power.

TO SET CLOCK

Press MODE key; display shows CLK.



Press DAY/MONTH key to select today's day. Press HOUR key to set present hour (check AM/PM). Press MIN key to set present minutes. Press ENTER key. Unit now stores present time. Seconds are set to zero.

DAYLIGHT SAVING

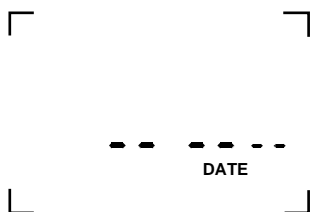
The user may select either standard U.S. option or no daylight saving at all.

1. U.S. OPTION: Daylight saving is automatically set when entering the current month/date/year. The unit will add one hour on the first Sunday in April, and subtract one hour on the last Sunday in October. You never need to look up the tables, or enter the spring and fall correction dates yourself.
2. NO DAYLIGHT SAVING: The unit will not be configured for daylight saving time correction by not entering the month/date/year.

TO SET DATE

NOTE: ENTER ONLY IF AUTOMATIC DAYLIGHT SAVING IS DESIRED. IF NOT REQUIRED, DO NOT SET DATE. INSTEAD, SKIP THE FOLLOWING SECTION AND PRESS MODE KEY UNTIL DISPLAY SHOWS SET.

Press mode key until display shows DATE.

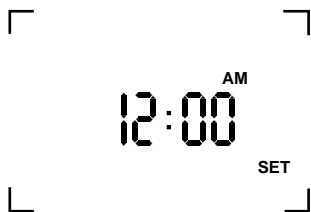


Press MONTH key to select month. Press DATE key to set today's date. Press YEAR key to set present year. Press ENTER key. Unit now stores present date.

Note: If unit has correct entry for the calendar, then the unit will go into the SET mode. If the calendar has an incorrect entry, then the unit will stay in the DATE mode, with MM--YY displayed, signifying that the date does not correspond with the month, and/or year, i.e. Feb. 31,1989. If this occurs, set the correct date, and then press ENTER.

TO SET SCHEDULE

For convenience, write out your desired schedule on a separate piece of paper. If display does not show SET then press MODE key until display shows SET. The display will show 12:00 AM.



1. Press HOUR key to set hour (check AM/PM)
2. Press MIN key to set minutes

Note: Minutes advance in intervals of 5 because scheduling execution has 5 minute resolution.

3. Press ON/OFF key to set ON or OFF event.
4. Press ENTER key to store the event.

REPEAT ABOVE STEPS FOR ALL DESIRED EVENTS

Note: After each event is entered, the clock (in the set mode only) automatically advances 5 minutes.

5. Press MODE key to return to RUN mode.

Note: When the unit is returned to the run mode, check the load status of the current setting. If it is showing OFF but should be ON, press the override key since the unit does not “look back” to the setting just entered. However, the unit will correct itself at the next scheduled event and no further alteration will be necessary.

TO SET SKIP DAYS

1. Press MODE key until display shows SP



2. Press DAY/MONTH key and SU starts flashing.
3. If you want Sunday to be a skip day, press SP DAY key and SU will remain solid. Next day (MO) will begin flashing. If you do not want Sunday to be a skip day, press DAY/MONTH key to advance to the first desired Skip Day. Then press SP DAY key.
4. If you want to delete a previously set skip day, press DAY/MONTH key to advance to that day - then (when Flashing) Press SP DAY key to delete it.

Summary: SP DAY key sets a flashing day as a SKIP day and also eliminates a constantly displayed day from Skip day status. DAY/MONTH key advances the days.

5. When all selected skip days are displayed as constant. Press ENTER key. Unit goes to run mode and clock shows real time. Skip day(s) will flash when its day of the week is reached.

6. To skip schedules on all days (such as for vacation shut-down) press the SP DAY key when unit is in the run mode. Current day of the week will flash and a "D" will appear in the upper right display. To resume normal schedule, press SP DAY key again.

REVIEW/MODIFY

SCHEDULE:

1. Press MODE key until display shows SET. The first chronological event will be displayed.
2. Press ENTER repeatedly to continue reviewing the other scheduled ON/OFF events.
3. To modify an event, use the ON/OFF key to either change the status or eliminate the event entirely by pressing until event clears from screen. Press ENTER after each modification.

SKIP DAYS:

Press Mode key until display shows SP. All of the skip days are displayed as solid. To modify, use DAY/MONTH and SP DAY keys. (See section "TO SET SKIP DAYS").

OVERRIDE:

In order to temporarily change the current ON or OFF status of a load, simply press the override key. This can only be done when the unit is in the RUN mode. The load status will flash indicating that this is a change from a scheduled event.

In order to cancel the override, press override key again.