Electric Analog Clock Installation

Installation Requirements

- Refer to the Important Safety Instructions before installing, operating or performing maintenance of clocks.
- Before installing a clock, verify the system Transmitter is operating properly and sending a signal with adequate building coverage
- Clocks must be installed at a location within adequate transmission range of the Transmitter.
- Manual Setting Analog Clock Models - verify its set up procedure is completed before the clock is installed.
- Any damage to the clock due to improper wiring voids the warranty. It is at Primex discretion as to whether damage to the clock was caused by improper wiring.

> WARNING
>
> Battery-powered models only: For sites with multiple Transmitters or repeaters, do not install clock batteries until the clocks are located at their permanent installation location.

Electric Analog Clock Power Specifications

Model	Current Draw	Cord Specification	Line	Neutral	Ground (earth)
24 VAC	21mA	18 in. (45.7 cm) pigtail/hardwired	Yellow	Yellow	
120 VAC	25mA	18 in. (45.7 cm) standard non-polarized two-prong plug.	Black	White	Green

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Installation must adhere to local codes and ordinances.

Pluggable surface receptacle

The power cord is wrapped around the two posts on the back of the clock and can be unwrapped or wrapped to the desired length.

The power cord is to be routed through the strain relief away from the upper portion of the clock's antenna to maintain optimal reception and then exit through the slot located at the bottom of the clock. The excess cord can then be wound around the two cord posts.

> NOTE
>
> When hanging the clock on the wall, be sure the power cord does not get pinched between the mounting hardware and the back of the clock. Be careful not to damage the antenna wires when hanging or removing the clock.

Pluggable recessed receptacle

The receptacle may be behind the clock, with the excess cord wound around the two cord posts.

To ensure that the cord does not prevent the clock from resting flush against the wall, the center of the recessed receptacle should be located about 2.0 in. (6.35 cm) to the right or left of the center of the clock and 2.75 in. (6.9 cm) down of clock mounting nail or screw.

Recessed receptacle
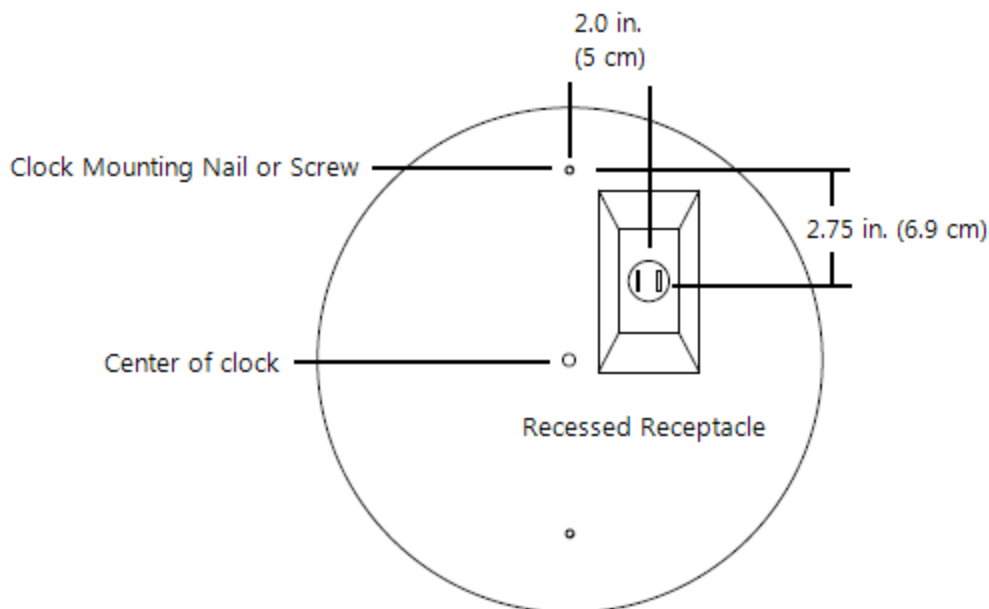
Pigtail/hardwired configuration

The power plug may be removed and cord cut to length for hardwired (pigtail) installation. Pigtail installation requires a 120V~ power line in a junction box installed by a licensed electrician. Leave a minimum of 6 in. (15 cm) of cord inside the junction box.

> NOTE
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> To conform to UL and National Building Code, the use of the clock-lock feature is required for this configuration.
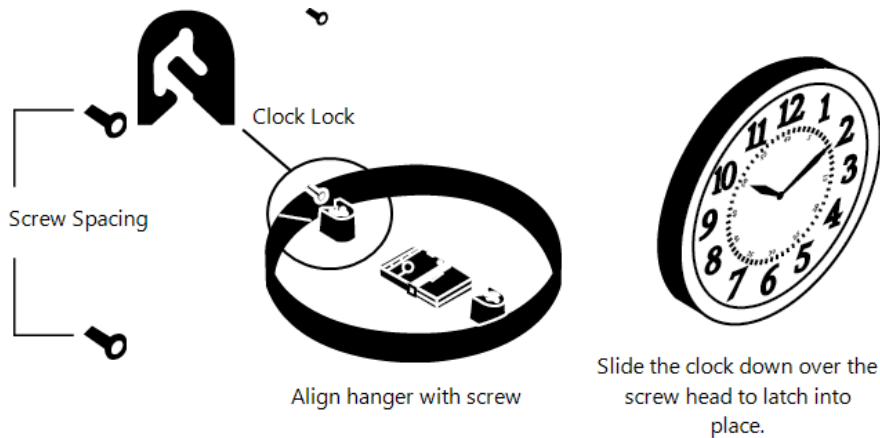
Back of Analog Clock -pigtail/hardwired configuration
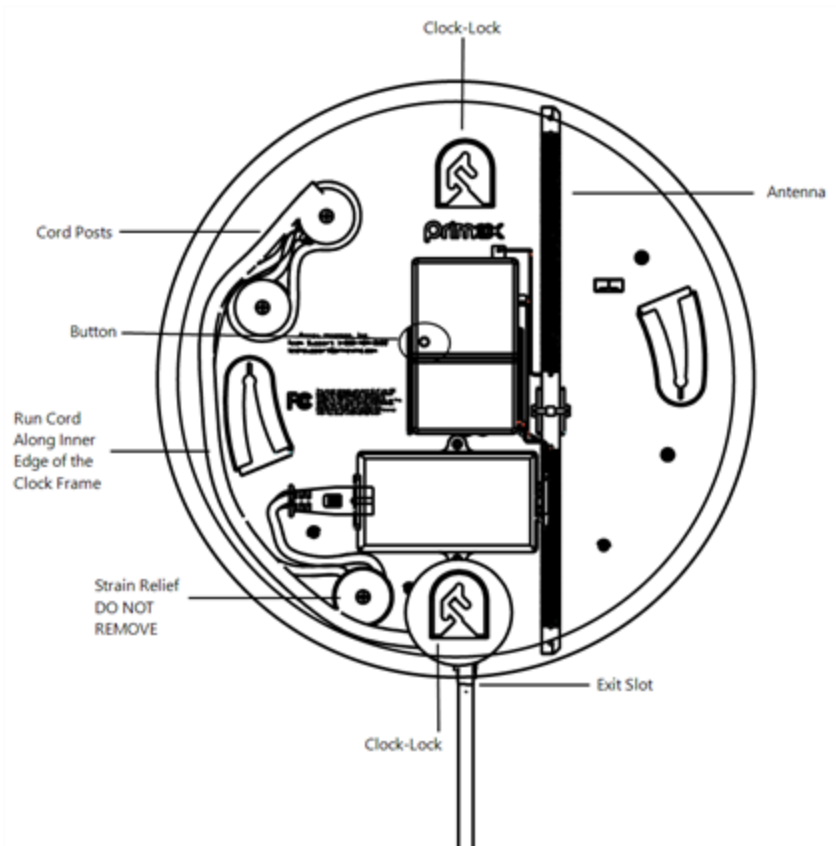
Single-sided Analog Clock Installation

How to install a single-sided analog clock

1. Drill holes for the screw anchors per the clock hole spacing specifications. For spacing specifications, Clock-Lock Hole Spacing Specifications

2. Apply power to the clock.

3. Use a screwdriver to insert and tighten the screw, leaving the top of the screw head 3/8 in. (0.95 cm) out from the wall.

4. Hold the clock with the face down and align the Clock-Lock hanger with the bottom screw.

5. Tilt the clock face to vertical and position the clock with the screw heads in the opening of the Clock-Lock hanger.

Screw Spacing

Clock Lock

Align hanger with screw

Slide the clock down over the screw head to latch into place.

6. Slide the clock down over the screw heads to latch it into place.

7. If the Automatic Self Initialization was not completed at the clock mounting location, verify the clock is receiving a signal from the Transmitter. Remove the clock and press and IMMEDIATELY release the button located on the back of the clock.

> **NOTE**
>
> When a clock is being installed or its transmission signal is being tested, it's very important not to hold the button down too long or the hands will proceed to the 12 o'clock position and remain there indefinitely. To release the hands from an indefinite position, press and release the button again. The clock will automatically initiate the Self Initialization procedure and set itself.

*   The clock scans all channels looking for a Transmitter signal.
*   Once the clock finds a channel with a Transmitter signal, the clock emits a series of beeps. Each time a valid time signal is received the clock emits a beep, which should be once per second and continue for one minute.
*   If the clock is in a marginal signal area, it emits a beep once every few seconds. Battery operated models work in marginal signal areas, but may result in reduced battery life.
*   No beeping indicates a signal is not received.

Clock-Lock Hole Spacing Specifications

The backs of most Analog Clocks feature two specially designed Clock-Lock hangers spaced at precise distances, one on the top and the other on the bottom.

The Clock-Lock feature prevents accidental removal if the clock is bumped, and it may reduce theft by requiring a particular combination of moves to remove the clock.

- Analog clocks with the Clock-Lock feature are supplied with two mounting screws and wall anchors.
- To bypass the use of the Clock-Lock feature, use finishing nails with no heads angled at 45 degrees into the wall in place of the supplied mounting screws.

Analog Clock-Lock spacing dimensions

Clock Size	Hole Spacing	Clock-Lock Feature
9" (22.86 cm)	6.75" (17.17 cm)	Yes
9.5" (24.13 cm)	9" (22.86 cm)	Yes
11.5" (29.21 cm)	9" (22.86 cm)	Yes
12.5" (31.75 cm)	9" (22.86 cm)	Yes
13.5" (34.2 cm) Square model	9.5" (24.13 cm)	Yes
13.75" (34.92 cm)	9" (22.86 cm)	Yes
16" (40.64 cm)	9" (22.86 cm)	Yes
24" (60.96 cm)	Not applicable	No

Support

To obtain additional technical documentation for Primex products, visit the Support area on our website at www.primexinc.com

You may require Technical Support when you have questions about product features, system configuration, or troubleshooting. Support services are delivered in accordance with your organization's support agreement, end user licenses agreements, and warranties, either with a Primex Certified Sales and Service Partner or directly with Primex.

Primex, Inc.

Primex is a leading provider of synchronized time and environmental monitoring solutions. Our solutions automate and maintain facility compliance, increase efficiencies, enhance safety and reduce risk for organizations in the healthcare, education, manufacturing and government vertical markets.

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